

State of New Mexico **OIL CONSERVATION COMMISSION**

Fram

MICHAEL E. STOGNER PETROLEUM ENGINEER

P.O. BOX 2088 LAND OFFICE BUILDING BANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6496 Order No. R-5995

APPLICATION OF LLANO, INC. FOR RESCISSION OF POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

20050 R-6050

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 14, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>2nd</u> day of May, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Llano Inc., is the owner of five wells in the Grama Ridge-Morrow Gas Pool, Lea County, New Mexico.
- (3) That said pool was created and defined by Division Order No. R-3006 on December 3, 1965, comprising all of Sections 3 and 4, Township 22 South, Range 34 East, NMPM, and made subject to the special pool rules promulgated by said order, which include a provision for 640-acre spacing and proration units, with well locations prescribed as being no closer than 1650 feet to the outer boundary of the unit and no closer than 330 feet to any quarter-quarter section line.
- (4) That said pool was extended by Order No. R-3080, effective July 1, 1966, to include all of Section 34, Township 21 South, Range 34 East, NMPM; by Order No. R-3152, effective December 1, 1966, to include all of Section 10, Township 22 South, Range 34 East, NMPM; by Order No. R-3195, effective

-2-Case No. 6496 Order No. R-5995

March 1, 1967, to include all of Section 33, Township 21 South, Range 34 East, NMPM; and by Order No. R-5729, effective June 1, 1978, to include all of Section 2, Township 22 South, Range 34 East, NMPM.

- (5) That the applicant seeks the rescission of the Special Rules and Regulations for the Grama Ridge-Morrow Gas Pool to provide that said pool would be governed by the 320-acre spacing and acreage dedication requirements and well location requirements of Rule 104 of the Division Rules and Regulations.
- (6) That the evidence in this case indicates that the five Morrow gas wells owned by the applicant, namely the Grama Ridge Unit Wells Nos. 2 and 3, located in Sections 34 and 33, respectively, of Township 21 South, Range 34 East, NMPM, and Grama Ridge Unit Wells Nos. 1 and 4, and Government "A" Well No. 1, located in Sections 3, 4, and 10, respectively, of Township 22 South, Range 34 East, NMPM, are all located within an upthrust fault block bounded on the west by a northeast-southwest trending fault and on the east by a northsouth trending fault, and that they are not in communication with other wells recently drilled in the area, namely the POGO State L-922 Well No. 2 located in Section 28, or the Getty 35 State Well No. 1 located in Section 35, both in Township 21 South, Range 34 East, NMPM, or the Getty 2 State Well No. 1 located in Section 2, Township 22 South, Range 34 East, NMPM.
- (7) That the evidence in this case indicates that the horizontal limits of the Grama Ridge-Morrow Gas Pool, as heretofore defined, are excessive and contain lands which are not producible by wells completed within said pool.
- (8) That the horizontal limits of the pool should be contracted to approximately the known productive limits of the above-described fault block, and the pool should be redefined as comprising the following-described lands:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM

Section 33: E/2 Section 34: W/2

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM

Section 3: W/2 Section 4: All Section 10: W/2

- (9) That the applicant has established that the drainage characteristics of the reservoir in the wells completed within the aforesaid fault block are not such as to support 640-acre spacing, and that 320-acre spacing is more appropriate for the Morrow wells completed therein.
- (10) That the Special Rules and Regulations for the Grama Ridge-Morrow Gas Pool, as promulgated by Division Order No. R-3006, should be rescinded, and the pool, as hereinabove redefined, should be spaced, drilled, operated, and produced in accordance with Rule 104 of the Division Rules and Regulations and with such other Division rules and orders as may be applicable.
- (11) That the three recently completed wells described in Finding No. (6) above are not completed in the Grama Ridge-Morrow Gas Pool as redefined, and a separate new pool should be created and defined for the POGO well located in Section 28, and a separate new pool should be created for each or both of the Getty wells located in Sections 35 and 2.
- (12) That the owner of the aforesaid wells in said Sections 35 and 2 should be given a reasonable period of time in which to apply to the Division for a hearing to consider the creation of a new pool for said wells, and the promulgation of special rules therefor, if said owner wishes to pursue spacing and proration units of other than 320 acres, and 30 days after the entry of this order is a reasonable period of time for such purpose.
- (13) That during such 30-day period, and during the time an application for other than 320-acre spacing has been filed, and a hearing, or an order following hearing, is pending, the following described lands should be placed on temporary 640-acre spacing for the Morrow formation, and no Morrow gas well drilling permits should be approved for said lands unless such permits are for wells to which 640-acres (being a single governmental section) is dedicated and which are located at least 1650 feet from the outer boundary of the unit and at least 330 feet from any quarter-quarter section line, or unless an exception to the provisions of this finding and the derivative order therefrom has been obtained after notice and hearing; the lands are:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM

Section 26: All

Section 34: E/2

Sections 35 and 36: All

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM Sections 1 and 2: All

Section 3: E/2 Section 10: E/2

Sections 11 and 12: All

- (14) That in the event the owner of the wells in Sections 35, Township 21 South, Range 34 East, NMPM, and 2, Township 22 South, Range 34 East, NMPM, has not filed an application for creation of a new pool for said wells and the promulgation of special rules for said pool, including a provision for other than 320-acre spacing, within the above-described 30-day period, or in the event that spacing and proration units of other than 320 acres are denied, then all the lands described in Finding No. (13) above should be governed by the provisions of Rule 104 of the Division Rules and Regulations.
- (15) That an order based on the above findings is in the interest of conservation and will prevent waste and protect correlative rights and should be approved.

IT IS THEREFORE ORDERED:

(1) That the Grama Ridge-Morrow Gas Pool in Lea County, New Mexico, as heretofore classified and defined, is hereby redefined to include only the following described lands:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM

Section 33: E/2 Section 34: W/2

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM

Section 3: W/2 Section 4: All Section 10: W/2

- (2) That the Special Rules and Regulations for the Grama Ridge-Morrow Gas Pool, as promulgated by Division Order No. R-3006, are hereby rescinded, and said pool shall hereafter be spaced, drilled, operated, and produced in accordance with Rule 104 of the Division Rules and Regulations and with such other Division rules and orders as may be applicable.
- (3) That the Morrow formation underlying all of Section 26, the E/2 of Section 34, and all of Sections 35 and 36, Township 21 South, Range 34 East, NMPM, and all of Sections 1 and 2, the E/2 of Section 3, the E/2 of Section 10, and all of

Desciroles 1 Desciroles 1 12.60 6557 Sections 11 and 12, Township 22 South, Range 34 East, NMPM, are hereby placed on temporary 640-acre spacing, and no drilling permit shall be approved for any Morrow gas well proposed to be drilled on said lands unless such permit is for a well to which 640 acres (being a single governmental section) is dedicated and which is located at least 1650 feet from the outer boundary of the unit and at least 330 feet from any quarter-quarter section line, or unless an exception to the provisions of this Order No. (3) has been obtained after notice and hearing.

- (4) That the provisions of Order No. (3) above shall be in force for a period of 30 days after the date of entry of this order, or provided Getty Oil Company has filed an application for creation of a new gas pool within the lands described in Order No. (3) above and for the promulgation of special rules for such new pool, including a provision for other than 320-acre spacing, for so long thereafter as a hearing, or an order following a hearing, is pending.
- (5) That upon expiration of the acreage dedication and well location requirements provisions of Order No. (3) above, and in the absence of special pool rules to the contrary, all Morrow gas wells completed on the lands described in Order No. (3) above shall be spaced, drilled, operated, and produced in accordance with the provisions of Rule 104 of the Division Rules and Regulations.
- (6) That 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 herein-above designated.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

JOE D. RAMEY

Director

SEAL

dr/

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTUR OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 4896 Order No. R-4491

APPLICATION OF LLAMO, INC., FOR GAS INJECTION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 17, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 16th day of March, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Llano, Inc., is the operator of the Grama Ridge Morrow Unit Area comprising some 1280 acres, more or less, of lands in Section 34, Township 21 South, Range 34 East, NMPM, and Section 3, Township 22 South, Range 34 East, NMPM, Lea County, New Mexico.
- (3) That the applicant proposes to inject purchased gas for storage purposes into its State GRA Well No. 1 located in Unit E of the aforesaid Section 3 and its State GRB Well No. 1 located in Unit L of the aforesaid Section 34, injection to be into the perforated intervals from 12,827 to 12,847 feet, 12,984 to 12,985 feet, and 13,010 to 13,021 feet in said State GRA Well No. 1, and the perforated intervals from 12,921 to 12,934 feet, 13,020 to 13,022 feet, and 13,051 to 13,073 feet in said State GRB Well No. 1, all of said perforations being into irregular and non-continuous sands embedded in the shale matrix of the Morrow formation, Grama Ridge Morrow Gas Pool.

- (4) That while there are other wells than the aforesaid State GRA Well No. 1 and State GRB Well No. 1 producing from the Morrow formation of said Grama Ridge-Morrow Gas Pool, the evidence indicates that said other wells are producing from separate sand stringers not in communication with the proposed injection zones.
- (5) That the applicant proposes to initiate and conduct its gas storage operations in the subject wells in accordance with a 3-phase plan as follows:
- Phase I General conditioning of downhole well equipment and installation of surface, testing and metering facilities. Pilot test in order to determine by pressure analysis the limits of the Morrow reservoir and the compatability for gas storage.
- Phase II First installation of permanent compression equipment to expedite fill-up operation after soundness of underground Morrow reservoir is established.
- Phase III Installation of additional compression after evaluation of Phase II has corroborated the reservoir limits as determined in the Phase I evaluation and final fill-up to 2500 psig surface pressure.
- (6) That the injection of gas into the subject wells for gas storage purposes, and the subsequent withdrawal of such gas for transportation to market, will not cause waste nor violate correlative rights, and should be approved.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Llano, Inc., is hereby authorized to inject gas for storage purposes, and to subsequently withdraw such gas, in the perforated intervals from 12,827 to 12,847 feet, 12,984 to 12,985 feet, and 13,010 to 13,021 feet in its State GRA Well No. 1 located in Unit E of Section 3, Township 22 South, Range 34 East, NMPM, and in the perforated intervals from 12,921 to 12,934 feet, 13,020 to 13,022 feet, and 13,051 to 13,073 feet in its State GRB Well No. 1 located in Unit L of Section 34, Township 21 South, Range 34 East, NMPM, Grama Ridge-Morrow Gas Pool, Lea County, New Mexico.
- (2) That the applicant shall notify the Santa Fe and Hobbs offices of the Commission and the Commissioner of Public Lands for the State of New Mexico upon commencement of each phase of operations as outlined in Finding No. (5) above. Further, that the applicant shall file monthly reports of gas injected and gas withdrawn as required by Rule 405 of the Commission Rules and Regulations.

-3-Case No. 4896 Order No. R-4491

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

SEAL

ALEX J. ARMIJO, Member

A. L. PORTER, Jr., Member & Secretary

CMD : OG5SECT

ONGARD INQUIRE LAND BY SECTION

02/04/02 11:01: OGOMES -TP

PAGE NO:

Sec : 34 Twp : 21S Rng : 34E Section Type : NORMAL

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CMD : OG5SECT

ONGARD INQUIRE LAND BY SECTION

02/04/02 11:01: OGOMES -TP

PAGE NO:

Sec : 34 Twp : 21S Rng : 34E Section Type : NORMAL

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ONGARD

02/04/02 11:01:

OG6IWCM

INOUIRE WELL COMPLETIONS

OGOMES -TP

Pool Idn : 77680 GRAMA RIDGE; MORROW (GAS)

OGRID Idn : 13382 RAPTOR NATURAL PIPELINE LLC

Prop Idn : 5927 GRM UNIT

Well No : 002 GL Elevation: 99999

U/L Sec Township Range North/South East/West Prop/Act(P/

B.H. Locn : L 34 21S 34E FTG 1980 F S FTG 660 F W A

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Lot Identifier:

Dedicated Acre: 320.00

Lease Type : S

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

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PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

Date: 2/4/2002 Time: 10:58:22 AM

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ONGARD

02/04/02 11:01:

OG6ACRE

C102-DEDICATE ACREAGE

OGOMES -TP Page No :

API Well No : 30 25 21717 Eff Date : 04-30-1991

Pool Idn : 77680 GRAMA RIDGE; MORROW (GAS)

Prop Idn : 5927 GRM UNIT

Well No: 00

O Order: Simultaneous Dedication: Acreage: 320.00 Revised C102? (Y/N): Spacing Unit : 23488 OCD Order : Sect/Twp/Rng :

Dedicated Land:

| S | Base U/ | L Sec | qwT | Rng | Acreage | L/W | Ownership | Lot Idn |
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OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

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Reporting Period Total (Gas, Oil) :

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PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

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OG61PRD INQUIRE PRODUCTION BY POOL/WELL

OGOMES -TP Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

Prodn. Days Production Volumes API Well No Property Name MM/YY Prod Gas Oil Water St ______ 08 96 30 25 21717 GRM UNIT 30 25 21717 GRM UNIT 09 96 Ι 30 25 21717 GRM UNIT 10 96 Ι 30 25 21717 GRM UNIT 11 96 30 Ι 30 25 21717 GRM UNIT 12 96 Ι 30 25 21717 GRM UNIT 01 97 31 42 Ι 30 25 21717 GRM UNIT 02 97 Ι

Reporting Period Total (Gas, Oil) :

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OGOMES -TP Page No:

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OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

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Reporting Period Total (Gas, Oil) :

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OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

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Reporting Period Total (Gas, Oil) :

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OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

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Reporting Period Total (Gas, Oil) :

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OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

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| 30 | 25 | 21717 | GRM | UNIT | | 05 | 99 | | | | | | I |
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Reporting Period Total (Gas, Oil) :

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OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

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OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

API Well No Property Name Prodn. Days Production Volumes MM/YY Prod Gas Oil Water St ______ 25 21717 GRM UNIT 02 00 30 25 21717 GRM UNIT 03 00 31 47 Ι 25 21717 GRM UNIT 04 00 Ι 30 25 21717 GRM UNIT 05 00 Ι 25 21717 GRM UNIT 06 00 30 Ι 30 25 21717 GRM UNIT 07 00 Ι 30 25 21717 GRM UNIT 08 00 31 Ι

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 2/4/2002 Time: 10:58:48 AM

OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 13382 RAPTOR NATURAL PIPELINE LLC

Pool Identifier : 77680 GRAMA RIDGE; MORROW (GAS)

API Well No : 30 25 21717 Report Period - From : 01 1996 To : 12 2001

| | - | | ~ - - | | | | | | | | ~ |
|-----|--------------|----------------|---------------|------|-------------|------|-------------|--------|------------|-------|----|
| API | We] | ll No | Property | Name | Pro | odn. | Days | Produc | tion Volum | es | We |
| | | | | | MM, | YYY | Prod | Gas | Oil | Water | St |
| | | - - | | | | | | | | | |
| 30 | 25 | 21717 | GRM UNIT | | 09 | 00 | | | | | I |
| 30 | 25 | 21717 | GRM UNIT | | 10 | 00 | | | | | I |
| 30 | 25 | 21717 | GRM UNIT | | 11 | 00 | 30 | | 138 | | I |

Reporting Period Total (Gas, Oil): 314

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 2/4/2002 Time: 10:58:50 AM

CMD :

ONGARD

02/04/02 11:02:

OG6 IWCM

INQUIRE WELL COMPLETIONS

OGOMES -TP

Pool Idn : 77690 GRAMA RIDGE; MORROW, EAST (GAS)

OGRID Idn : 15742 NEARBURG PRODUCING CO

Prop Idn : 25382 GRAMA RIDGE EAST 34 STATE

Well No : 001 GL Elevation: 3689

U/L Sec Township Range North/South East/West Prop/Act(P/

B.H. Locn : H 34 21S 34E FTG 1548 F N FTG 990 F E A

Lot Identifier:
Dedicated Acre:
Lease Type : S

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O):

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06

PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD : OG6ACRE ONGARD

02/04/02 11:02:

C102-DEDICATE ACREAGE

OGOMES -TP

Page No:

API Well No : 30 25 34948 Eff Date :

Pool Idn : 77690 GRAMA RIDGE; MORROW, EAST (GAS)

Prop Idn

: 25382 GRAMA RIDGE EAST 34 STATE

Well No : 00

Spacing Unit :

OCD Order :

Simultaneous Dedication:

Sect/Twp/Rng : 34 21S 34E Acreage :

Revised C102? (Y/N):

Dedicated Land:

______ S Base U/L Sec Twp Rng Acreage L/W Ownership Lot Idn

I6437: Change sect-twp-rng or <Enter> to continue

PF01 HELP PF02

PF03 EXIT PF04 GoTo

PF05

PF06 CONFIRM

PF07 BKWD

PF08 FWD PF09

PF10 LAND

PF11 NXTSEC PF12 RECONF

Date: 2/4/2002 Time: 10:59:14 AM

OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

OGRID Identifier: 15742 NEARBURG PRODUCING CO

Pool Identifier : 77690 GRAMA RIDGE; MORROW, EAST (GAS)

API Well No : 30 25 34948 Report Period - From : 01 1999 To : 12 2001

Prodn. Days Production Volumes API Well No Property Name MM/YY Prod Gas Oil Water St ______ 25 34948 GRAMA RIDGE EAST 34 06 00 22 52735 1110 30 25 34948 GRAMA RIDGE EAST 34 07 00 31 99393 30 25 34948 GRAMA RIDGE EAST 34 08 00 31 131888 1726 33 F 2300 52 30 25 34948 GRAMA RIDGE EAST 34 09 00 30 144637 30 25 34948 GRAMA RIDGE EAST 34 10 00 30 121874 30 25 34948 GRAMA RIDGE EAST 34 11 00 25 75411 1997 51 F 1368 68 F 794 32 F 30 25 34948 GRAMA RIDGE EAST 34 12 00 31 99028 745 57

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

02/04/02 11:02: CMD: ONGARD

INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP OG6IPRD

Page No:

OGRID Identifier: 15742 NEARBURG PRODUCING CO

Pool Identifier : 77690 GRAMA RIDGE; MORROW, EAST (GAS)

API Well No : 30 25 34948 Report Period - From : 01 1999 To : 12 2001

| | | | - | | | | | | | | | | |
|-----|-----|-------|-----------|---------|------|----|------------|----|--------------|---------------|--------------------|-------------|----------|
| API | We: | ll No | Prope | erty Na | ame | | Pro MM/ | | Days Prod | Produc Gas | tion Volume Oil | es Water | We St |
| 30 | 25 | 34948 | GRAMA | RIDGE | EAST | 34 | 01 | 01 | 31 | 77672 | 585 | 52 | F |
| 30 | 25 | 34948 | GRAMA | RIDGE | EAST | 34 | 02 | 01 | 28 | 60768 | 409 | 51 | F |
| 30 | 25 | 34948 | GRAMA | RIDGE | EAST | 34 | 03 | 01 | 29 | 55189 | 518 | 51 | F |
| 30 | 25 | 34948 | GRAMA | RIDGE | EAST | 34 | 04 | 01 | 29 | 50399 | 244 | 49 | F |
| 30 | 25 | 34948 | GRAMA | RIDGE | EAST | 34 | 05 | 01 | 31 | 44742 | 204 | 33 | F |
| 30 | 25 | 34948 | GRAMA | RIDGE | EAST | 34 | 06 | 01 | 28 | 32316 | 125 | 13 | F |
| 30 | 25 | 34948 | GRAMA | RIDGE | EAST | 34 | 07 | 01 | 23 | 13910 | 23 | 12 | S |
| | | | | | | | | | | | | | |

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TP

Page No:

S

OGRID Identifier: 15742 NEARBURG PRODUCING CO

30 25 34948 GRAMA RIDGE EAST 34 11 01

Pool Identifier : 77690 GRAMA RIDGE; MORROW, EAST (GAS)

API Well No : 30 25 34948 Report Period - From : 01 1999 To : 12 2001

API Well No Property Name Prodn. Days Production Volumes We MM/YY Prod Gas Oil Water St

30 25 34948 GRAMA RIDGE EAST 34 08 01 S
30 25 34948 GRAMA RIDGE EAST 34 09 01 S
30 25 34948 GRAMA RIDGE EAST 34 10 01 S

Penorting Period Total (Cag Oil) . 1059962 12148 560

Reporting Period Total (Gas, Oil): 1059962 12148 560

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 2/4/2002 Time: 10:59:45 AM

CMD :

ONGARD

02/04/02 11:03:

OG6IWCM

INQUIRE WELL COMPLETIONS

OGOMES -TP

Pool Idn : 77690 GRAMA RIDGE; MORROW, EAST (GAS)

OGRID Idn : 7377 EOG RESOURCES INC Prop Idn : 27520 LLANO 34 STATE

Well No : 001 GL Elevation: 3651

U/L Sec Township Range North/South East/West Prop/Act(P/

B.H. Locn : I 34 21S 34E FTG 1650 F S FTG 660 F E A

Lot Identifier:
Dedicated Acre:
Lease Type : S

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06

PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

Section Code. No P. 11452-8

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

Example of a like relie

APPLICATION OF SAPIENT ENERGY CORPORATION FOR CASE NO. 12587
AN UNORTHODOX GAS WELL LOCATION AND: (i) TWO
NON-STANDARD 160-ACRE GAS SPACING UNITS; OR IN
THE ALTERNATIVE (ii) ONE NON-STANDARD 160-ACRE
GAS SPACING UNIT AND PRORATION UNIT, LEA COUNTY,
NEW MEXICO.

APPLICATION OF SAPIENT ENERGY CORPORATION FOR CASE NO. 12605 SPECIAL POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER NO. R-11652

ORDER OF THE DIVISION

BY THE DIVISION:

These cases came on for a special hearing at 9:00 a.m. on March 1, 2001, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 13th day of September, 2001, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

FINDS THAT:

- (1) Due public notice has been given, and the Division has jurisdiction of these cases and their subject matter.
- (2) In Case No. 12587 the applicant, Sapient Energy Corporation ("Sapient"), seeks approval of an unorthodox Tubb gas well location for its Bertha J. Barber Well No. 12 (API No. 30-025-05978), located 330 feet from the North line and 660 feet from the East line (Unit A) of Section 7, Township 20 South, Range 37 East, NMPM, West Monument-Tubb Gas Pool (96968), Lea County, New Mexico. This well is to be dedicated to a non-standard 160-acre gas spacing unit consisting of either: (i) the E/2 E/2 of Section 7; or in the alternative (ii) the E/2 NE/4 of Section 7 and the W/2 NW/4 of Section 8, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. In either case, the applicant requests that the assigned spacing unit be made effective retroactive to the date of first

Case No. 12587/12605 Order No. R-11652

Page 2

production from the West Monument-Tubb Gas Pool for this well. In addition, should the Division approve a non-standard 160-acre gas spacing unit comprising the E/2 E/2 of Section 7, then the applicant seeks the approval of a second 160-acre gas spacing unit for the West Monument-Tubb Gas Pool consisting of the W/2 E/2 of Section 7.

- (3) In Case No. 12605, Sapient, in the alternative, seeks the promulgation of special rules for the West Monument-Tubb Gas Pool, including a provision for 80-acre spacing and designated well location requirements.
- (4) At the time of the hearing, Division Cases No. 12587 and 12605 were consolidated for the purpose of presenting testimony. Also, because each application addresses the same factual issues and in order to provide a comprehensive decision in these cases, one order should be entered for both cases.
- (5) By Order No. R-11304, issued in Case No. 12321 on January 12, 2000, the Division created and defined the West Monument-Tubb Gas Pool for the production of gas from the Tubb formation, based on its discovery by the above-described Bertha J. Barber Well No. 12. The horizontal limits for this pool currently comprise the same acreage originally forming the pool under Order No. R-11304, which include the following described lands in Lea County, New Mexico:

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM Section 7: E/2.

- (6) The West Monument-Tubb Gas Pool is an "unprorated gas pool" not subject to Part H of the Division's statewide rules and regulations entitled "Gas Proration and Allocation" (Rules 601 through 605). The West Monument-Tubb Gas Pool is subject to: (i) Division Rule 104.C (3), which requires standard 160-acre gas spacing units comprising a single governmental quarter section; and (ii) Division Rule 104.D (3), which restricts the number of producing wells within a single gas spacing unit within non-prorated pools to only one (see official notice to all operators submitted by the Division Director on October 25, 1999). Producing wells within this pool are allowed to produce at capacity.
- (7) Chevron U.S.A. Production Company ("Chevron") is the north offsetting operator with 100% of the Tubb gas rights in the SE/4 of Section 6, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. Sapient owns 100% of the working interest in the E/2 E/2 of Section 7, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, with the royalty interest being fee. The working interest ownership of the W/2 E/2 of Section 7 is as follows:

| Conoco, Inc. | 37.41862% |
|----------------------------|-----------|
| Phillips Petroleum Company | 25.00000% |
| Atlantic Richfield Company | |
| (ARCO), now BP/Amoco | 18.70931% |
| Chevron | 18.70931% |
| James Burr | 0.06511% |
| Larry Nermyr | 0.06511% |
| Ruth Sutton | 0.03255%. |

The royalty interest in the W/2 E/2 of Section 7 is Federal.

- (8) Both Chevron and Conoco appeared in opposition to the applications of Sapient and requested that the Bertha J. Barber Well No. 12 be shut-in and that Sapient be required to form a standard 160-acre gas spacing unit comprising the NE/4 of Section 7. Neither Chevron nor Conoco opposed the requested unorthodox gas well location for the Bertha J. Barber Well No. 12.
- (9) The Bertha J. Barber Well No. 12 was initially drilled by Sinclair Oil & Gas Company in December 1953/January 1954 to a total depth of 5,250 feet and was subsequently completed in the Monument-Paddock Pool at a standard oil well location within a standard 40-acre oil spacing and proration unit comprising the NE/4 NE/4 of Section 7. In 1993 ARCO Oil & Gas Company, successor operator to Sinclair Oil & Gas Company, sold this well to Cross Timbers Operating Company ("Cross Timbers"), which in December 1998 recompleted this well by deepening to a depth of 7,530 feet. From January, 1999 to August, 1999 this well produced as an oil well from the Monument-Abo Pool (production interval 6,892 feet to 7,380 feet), at a location considered to be standard for a 40-acre oil spacing and proration unit also comprising the NE/4 NE/4 of Section 7.
- (10) As ascertained from the Division's records in Santa Fe, Cross Timbers filed with the Division's district office in Hobbs on August 18, 1999 Division Form C-103 (*Well Location and Acreage Dedication Plat*), as a notice of intent to recomplete this well from the Abo formation to the Tubb formation as an oil well. On September 10, 1999 the following items were submitted to the Hobbs district office of the Division:
 - (a) Division Form C-103 (Sundry Notices and Reports on Wells), filed as a subsequent report that this well was plugged back and recompleted in the Tubb interval as a gas well; this form was approved on September 20, 1999;

- (b) Division Form C-104 (Request for Allowable and Authorization to Transport), which indicates the date of first gas delivery from the Tubb interval was August 21, 1999; this form was also approved on September 20, 1999;
- (c) Division Form C-105 (Well Completion or Recompletion Report and Log), which gives specific information concerning this well's recompletion in the Tubb formation; and
- (d) Division Form C-102 (Well Location and Acreage Dedication Plat), which indicates the 160 acres comprising the E/2 E/2 of Section 7 to be the dedicated acreage in the Tubb formation for the Bertha J. Barber Well No. 12.
- (11) The information contained on the forms that were submitted to the Hobbs district office on September 10, 1999 showed the well location to be unorthodox and the assigned acreage as being non-standard. No application for approval of this unorthodox gas well location or the non-standard 160-acre unit comprising the E/2 E/2 of Section 7 was made pursuant to Division rules, nor was notice ever provided to the affected offsetting owners. The interest owners in the W/2 E/2 of Section 7 were denied an opportunity to object at the time the Bertha J. Barber Well No. 12 was recompleted into the Tubb formation as a gas well.
- (12) Falcon Creek Resources, Inc. ("Falcon Creek") acquired this well from Cross Timbers on April 1, 2000 and Sapient acquired the well from Falcon Creek on July 14, 2000.
- (13) Division Rule 104.B (2) provides that, "if a well drilled as an oil well is completed as a gas well but does not conform to the applicable gas well location rules, the operator must apply for administrative approval for a non-standard location before the well can produce." Division Rule 104.D (2) provides that, "any well that does not have the required amount of acreage dedicated to it for the pool or formation in which it is completed may not be produced until a standard spacing unit for the well has been formed and dedicated or until a non-standard spacing unit has been approved." In addition to this rule as it relates to the formation of non-standard units, the instructions found on the reverse side of the Division's Form C-102 provide that production of the well will not be authorized until a

non-standard unit has been approved by the Division.

- (14) Sapient and its predecessors have failed to apply for and obtain administrative approval of the unorthodox location for the Bertha J. Barber Well No. 12, in violation of Division Rule 104.B (2), and are illegally producing this well. Further, Sapient and its predecessors have assigned the Bertha J. Barber Well No. 12 an unapproved non-standard 160-acre spacing unit, in violation of Division rules.
- (15) Sapient should therefore be ordered to shut-in the Bertha J. Barber Well No. 12 until such time as all production from this well has been appropriately reallocated to all of the mineral interest owners in the standard 160-acre unit comprising the NE/4 of section 7 either by voluntary agreement of all such owners or by a compulsory pooling order.
- (16) The geological and technical evidence presented in this matter supports the conclusions established by Division Order No. R-11304 in January, 2000 that the Bertha J. Barber Well No. 12 is producing from a gas reservoir in the Tubb formation that is a separate common source of supply. Further, the evidence supports the conclusion that this well will drain a large area and that 160-acre spacing units are appropriate for the West Monument-Tubb Gas Pool.
- (17) The technical evidence presented shows that wells in the West Monument-Tubb Gas Pool are capable of draining in excess of 80 acres and adopting special rules that provide for 80-acre spacing will result in the drilling of unnecessary wells thereby causing waste.
- (18) Adoption of special pool rules for the West Monument-Tubb Gas Pool that provide for 80-acre spacing, or the creation of a non-standard spacing unit for the Bertha J. Barber Well No. 12 comprising the E/2 E/2 of Section 7, will result in reserves being drained from offsetting tracts which could only be recovered by the owners of those reserves by the drilling of unnecessary wells.
- (19) The requested unorthodox location of the Bertha J. Barber Well No. 12 was not a contention between Sapient and any other party in this matter. The issuance of Division Administrative Order NSL-3752-A, dated August 29, 2001, which authorized Chevron to recomplete its G. C. Matthews Well No. 12 (API No. 30-025-05953), located 330 feet from the South line and 990 feet from the East line (Unit P) of Section 6, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, into the Tubb formation serves to offset any advantage of the unorthodox location of the Bertha J. Barber Well No. 12 in accordance with Division Rule 104.F (6).

- (20) The unorthodox gas well location of Sapient's Bertha J. Barber Well No. 12 should therefore be approved with the stipulation that a standard 160-acre gas spacing unit comprising the NE/4 of Section 7 be formed retroactive to the date of first production.
- (21) The application of Sapient in Case No. 12587 for approval of two non-standard 160-acre gas spacing units in the E/2 of Section 7 should be denied. Further, the application of Sapient in Case No. 12605 for the adoption of special pool rules for the West Monument-Tubb Gas Pool to include 80-acre gas well spacing should also be denied.
- (22) The allocation of past and future production from the Bertha J. Barber Well No. 12 to the unauthorized 160-acre unit comprising the E/2 E/2 of Section 7 is a violation of Division Rules 104.B (2), 104.C (3), and 104.D (2). A standard 160-acre gas spacing unit comprising the NE/4 of Section 7 is the proper spacing unit for the Bertha J. Barber Well No. 12. Production should be allocated to such unit retroactive to the date of first production from the West Monument-Tubb Gas Pool.

IT IS THEREFORE ORDERED THAT:

- (1) The application of Sapient Energy Corporation ("Sapient") in Case No. 12587 for an unorthodox gas well location in the West Monument-Tubb Gas Pool (96968) for its Bertha J. Barber Well No. 12 (API No. 30-025-05978), located 330 feet from the North line and 660 feet from the East line (Unit A) of Section 7, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico is hereby approved.
- (2) The NE/4 of Section 7 is hereby dedicated to this well to form a standard 160-acre gas spacing unit for gas production from the West Monument-Tubb Gas Pool.

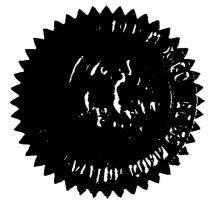
PROVIDED HOWEVER THAT:

- (3) Approval of the aforementioned unorthodox gas well location for the standard 160-acre unit shall be made retroactive to the date of first production from the Bertha J. Barber Well No. 12 (August 21, 1999).
- (4) Sapient is hereby ordered to shut-in the Bertha J. Barber Well No. 12 until such time as all production from this well has been appropriately reallocated to all of the mineral interest owners in the standard 160-acre unit comprising the NE/4 of Section 7, either by voluntary agreement of all such owners or by a compulsory pooling order.

IT IS FURTHER ORDERED THAT:

- (5) Sapient's application in Case No. 12587 for the above-described Bertha J. Barber Well No. 12 to be dedicated to a non-standard 160-acre gas spacing and proration unit consisting of either: (i) the E/2 E/2 of Section 7; or in the alternative (ii) the E/2 NE/4 of Section 7 and the W/2 NW/4 of Section 8, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, is hereby denied.
- (6) The application of Sapient in Case No. 12605 for the promulgation of special rules for the West Monument-Tubb Gas Pool, including a provision for 80-acre spacing and designated well location requirements, is hereby denied.
- (7) Jurisdiction of this case 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.



SEAL

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

See A se Code. No. R-1652

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

APPLICATION OF SAPIENT ENERGY CORPORATION FOR AN UNORTHODOX GAS WELL LOCATION AND: (i) TWO NON-STANDARD 160-ACRE GAS SPACING UNITS; OR IN THE ALTERNATIVE (ii) ONE NON-STANDARD 160-ACRE GAS SPACING UNIT AND PRORATION UNIT, LEA COUNTY, NEW MEXICO.

CASE NO. 12587

APPLICATION OF SAPIENT ENERGY CORPORATION FOR SPECIAL POOL RULES, LEA COUNTY, NEW MEXICO.

CASE NO. 12605

ORDER NO. R-11652-A

ORDER OF THE DIVISION DENYING MOTION FOR STAY OF DIVISION ORDER R-11652

BY THE DIVISION DIRECTOR:

THIS MATTER, having come before the Division Director of the New Mexico Oil Conservation Division (hereinafter referred to as "the Director") pursuant to Rule 1220(B) of the Rules and Regulations of the Oil Conservation Division, 19 NMAC 15.N.1220(B) (7-15-99), on motion of Sapient Energy Corporation (hereinafter referred to as "Sapient") for partial stay of Division Order No. R-11652, which motion was opposed by Conoco Inc. (hereinafter referred to as "Conoco") and Chevron U.S.A. Production Company (hereinafter referred to as "Chevron"), all parties having submitted written memoranda and presented testimony during the evidentiary hearing of October 4, 2001, and the Director, having personally listened to the testimony at the hearing and being otherwise fully advised in the premises.

FINDS:

1. On September 13, 2001 the Oil Conservation Division (hereinafter referred to as "the Division") entered Order No. R-11652, which, in pertinent part, ordered Sapient to shut-in its Bertha J. Barber Well No. 12 (hereinafter referred to as "the well") until production from the well was reallocated by voluntary agreement or pooling order.

Case No. 12587/12605 Order No. R-11652-A Page 2

- 2. On September 19, 2001 Sapient timely filed an application to have the matter heard *de novo* by the New Mexico Oil Conservation Commission (hereinafter referred to as "the Commission").
- 3. On September 19, 2001, Sapient filed a motion to stay those provisions of Order No. R-11652 that required the well to be shut-in. As grounds for the motion, Sapient argued the well would be damaged if shut-in. As further grounds, Sapient argued the rights of Conoco and Chevron would be better protected by continued production, that Sapient was likely to prevail on the merits before the Commission, and that Sapient has relied on approval of the Division of various forms in connection with the drilling of the well and therefore was excused from applying for an unorthodox location and for a non-standard gas spacing unit.
- 4. Conoco and Chevron filed a response opposing the motion. Conoco and Chevron argued that the damage alleged by Sapient was unlikely because fluids would be unlikely to cause damage if recovered. Conoco and Chevron also argued that a stay would permit Sapient to produce natural gas despite the Division's finding that further production would be illegal. Chevron and Conoco argued in the alternative that a bond, escrow of payments from production, or refunding be imposed if the well is not shut-in.
- 5. During the evidentiary hearing of October 4, Sapient presented testimony that in May of 2001 its well produced natural gas at the rate of approximately 1100 mcf/day.
- 6. Sapient presented testimony that in late May and early June, 2001 its gas purchaser required Sapient to reduce or "choke" natural gas production from the well to between 500 mcf/day and 750 mcf/day. The well produced natural gas at this reduced rate for some time.
- 7. Sapient presented testimony that during June and July, 2001 the gas purchaser permitted removal of the choke, but, once removed, the well produced at a rate of 850 mcf/day rather than the previous rate of 1100 mcf/day.
- 8. Sapient presented testimony that the reduced production was indicative of damage from scaling. Sapient's witness testified such damage typically results when calcium carbonate or calcium sulfate is deposited, typically where a pressure gradient exists such as the formation face, in downhole equipment or pump, or sometimes at the surface.
- 9. Sapient testified that scaling is reduced if not eliminated when a well is not produced.

Case No. 12587/12605 Order No. R-11652-A Page 3

- 10. Sapient presented testimony that remedial work was performed to rid the well of scale; however, after this, the well ceased producing altogether. Subsequent treatment with "KCl water," hydrochloric acid and other chemicals restored production.
- 11. Sapient presented testimony that once restored to production, the well began to produce at a rate of 600 mcf/day and that production rates have improved since. Sapient presented testimony that it expected the well to return to producing at the rate of 1100 mcf/day in about two months.
- 12. Sapient's witness testified that the well produced water at the rate of 2 barrels per day. Subsequent to the treatment applied by Sapient, the rate of fluid production increased. The treatments themselves involved the introduction of various liquids into the well. In the opinion of the Sapient witness, the fluids used to treat the well have now been mostly recovered.
- 13. Rule 1220(B) of the Rules and Regulations of the Oil Conservation Division, 19 NMAC 15.N.1220(B) (7-15-99), permits the Director to enter a stay of a Division order "... if a stay is necessary to prevent waste, protect correlative rights, protect public health and the environment or prevent gross negative consequences to any affected party ..." (emphasis added).
- 14. Sapient failed to establish gross negative consequences would result from the Division's order.
- 15. In particular, Sapient failed to establish to a reasonable degree of certainty that the well would be damaged if shut-in. Sapient testified that its concerns about the well were based on the reduced production in June and July, 2001 that followed the period of choked production of May-June of 2001. However, this testimony failed to establish with any certainty that a complete cessation of production would damage the well, particularly in view of Sapient's testimony that scaling is reduced if not eliminated when a well is not produced at all. Generalized concerns or suspicions are insufficient to establish entitlement to a stay under Rule 1220(B).
- 16. Nor is damage likely to result from fluid build up in the well. Sapient's witness testified to the very modest water production from the well (2 bbl/day), and that the fluids used in restoring the well to productive status had been largely recovered.
- 17. The success Sapient has achieved in addressing the scaling incident argues that any damage resulting from a production cessation can be addressed by prudent and judicious use of treatment.
- 18. The parties urged the Director to consider the likelihood of success on the merits of the *de novo* application when considering the motion for stay. *See, e.g.,* Motion to Stay at 3; Transcript of Proceedings, pages 68-70 (the Director is urged to consider Rule 62 of the New Mexico Rules of Civil Procedure). Nothing in Rule 1220(B) leads to the conclusion that likelihood of success is relevant, and the application of the Rules of Civil Procedure where a specific rule like Rule 1220(B) exists is doubtful.

- 19. It is however unnecessary to reach this issue, as Sapient has failed to establish a likelihood of success on the merits. Although Sapient claims its application to alternative spacing will be granted by the Commission, the present rules require that wells be located on spacing units consisting of 160 contiguous surface acres, substantially in the form of a square which is a quarter section and a legal subdivision of the U.S. Public Lands Surveys. 19 NMAC 15.C.104 (2-1-96). Sapient refers to general principles of correlative rights, but fails to specify any of the usual factors upon which the Commission would base a modification of the statewide rule. See 19 NMAC 15.C.104(D)(2)(b), (D)(2)(c), (D)(2)(d). Sapient also relies upon the Division's approval of various filings made in connection with the drilling of the well, but these approvals do not relieve Sapient of the responsibility to comply with the Rules and Regulations. Finally, Sapient argues that the retroactive order of the Division exceeds the Division's authority, thereby claiming a likelihood of success on this point before the Commission; but this argument doesn't address the likelihood of success because it goes solely to the remedy in an adverse order.
- 20. As a result of the foregoing, the Motion to Stay of Sapient should be denied.
- 21. As a result of the foregoing, it is unnecessary to reach the arguments of Chevron and Conoco concerning bonding, escrowing payments from production, or refunding.

IT IS THEREFORE ORDERED that the Motion to Stay Division Order No. R-11652 filed herein by Sapient Energy Corporation is denied. Order No. R-11652 shall remain in force until the Commission has had occasion to issue an Order in this matter.

DONE at Santa Fe, New Mexico, on the fifteenth day of October 2001.

SEAL

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy of the final affected wel list along with 1 copy of this form p number of wells on that list appropriate District Office

Form C-104

March 19, 20

Change of Operator Name

| OGRID: \\3382 Effective Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Previous Operator Name and Information | on: New Operator Name and Information: |
| Name: L&&E Natural Pipeling Address: Clo Conoco Inc., N&&P LOO North Dairy Ashfo Houston, Texas 17079 | Address: c/o Conoco Inc. NG tGP |
| | |
| I hereby certify that the rules of the Oil Conservation this form and the attached list of wells is true and conservation in the attached list of wells is true and conservation in the structure of the Oil Conservation this form and the attached list of wells is true and conservation in the structure of the Oil Conservation that the rules of the Oil Conservation this form and the attached list of wells is true and conservation that the rules of the Oil Conservation that the other properties of the Oil Conservation that the Oi | on Division have been complied with and that the information given or complete to the best of my knowledge and belief. ENSON SI) 293-1152 |
| | NMOCD Approval |
| | Signature: Lay W. Wink |
| | Printed Name: GARY W. WINK |
| | District: FIELD REPRESENTATIVE II |
| | Date: MAY 2 4 2001 |

OPERATOR: 13382 LGER NATURAL PIPELINE CO.

ocp DISTRICT: HOBBS

ERTY WELL NAME
5927 GRM UNIT #001
GRM UNIT #002
GRM UNIT #003
GRM UNIT #003

OCD APT

10.03-228-34E E 30-025-21336

10.34-218-34E J 30-025-21746

10.43-218-34E F 30-025-21344

OPERATOR INITIALS: MAS

.

5 Copies

P.O. Box 1980, Hobbs NM 88241-1980

1000 Rio Brazos Rd., Aztec, NM 84710

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Revised February 10, 1994 Submit to Appropriate District Office

P.O. Drawer DD, Artesia, NM 88211-0719 P.O. Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

Disrtrict III

District II

| District IV | | | | | | | | | | |
|------------------------|---------------------|-------------------|-------------|---------------------|-------------------|----------------------------------|----------------------------------|---------------------------------------|--------------------|-----------------|
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| I. | | erator name | | | E AND AUT | HORIZAT | ION TO TR | | D Number | |
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| | LG&E NATU | | 'ELINE | CO. | | | | 013382 3 reason fo | r Filing Code | |
| | 921 W. Sang | | 00040 | | 04- 47 | | 0 N | | | 414104 |
| 4 API 1 | Hobbs, New | Mexico | 88240 | | Sta. #7 | Name | Company Na | ime Change | 6 Pool | 4/1/96 Code |
| | | | 0 | Didas Massa | | | | | | |
| 30 - 025-21 7 Prope | /1/ rty Code | - | Grama | Ridge Morro | 8 Property | v Name | | | 9 Well N | 77680 lumber |
| · | • | | GRM U | mit | | | | | 40 | |
| 005927 II. | 10 | Surfac | | | | | | | #2 | |
| UL or lot no. | Section | Town | | Range | Lot.ldn | Feet from the | North/South Line | Feet from the | East/West Line | County |
| | 34 | | 218 | 34E | | 1980 | s | 660 | w | Lon |
| L | | Botton | | Location | <u> </u> | 1300 | | 000 | 1 44 1 | Lea |
| Ut or lot no. | Section | Town | | Range | Lot.ldn | Feet from the | North/South Line | Feet from the | East/West Line | County |
| | | ļ | | | | | | | 1 | |
| 12 Lse Code | 13 Producing Me | thod Code | 14 Gas (| Connection Date | 15 C-129 P | ermit Number | 16 C-129 Eff | ective Date | 17 C-129 Exp | piration Date |
| 5 | | | | | | | | | 1 | |
| III. Oil a | nd Gas Tra | nsnorte | rs | | _l | | | · · · · · · · · · · · · · · · · · · · | | |
| 18 Transporter | d Gus III | 19 Transpo | | | 20 F | POD | 21 O/G | 22 | 2 POD ULSTR Locati | on |
| OGRID | , | and A | ddress | | | | | | and Description | |
| 015694 | Navajo Refi | ning Co | | | | 1185610 | | L-34-21S-34 | lF | |
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| 007440 | EOTT Energ | | toola, i | IN COL 10 | | 1185610 | 0 | L-34-21S-34 | , | |
| 007440 | P.O. Box 46 | | eton TX | 77210 | | | | | ea County, NM | |
| 013382 | LG&E Natur | | | | | 1185630 | o & G | L-34-21S-34 | | |
| 013302 | 921 W. San | • | | 188240 | | Lea County | | | - | |
| | 021 11. Cuii | go. 110. | 350, 1411 | | | and the light, and a contract of | | | | |
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| IV. Prod | uced Water | • | | | | | E TITLE THE THE THE PARTY OF THE | | | |
| 23 POD | | | LSTR Loca | ation and Descript | ion | | | | | |
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| V. Well | Completio | n Data | | | | | | | | |
| 25 Spud | | | 26 Read | y Date | 27 T | Ď. | 28 | PBTD | 29 Perforati | ions |
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| 30 F | lole Size | | 3 | 1 Casing & Tubing | g Size | | 32 Depth Set | | 33 Sacks C | ement |
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| VI. Well | Test Data | | | | | | | | | |
| 34 Date New Oil | 35 Gas Deliv | ery Date | 36 Te | est Date | 37 Te | st Length | '38 Tbg. P | ressure | 39 Csg. I | Pressure |
| | | | | | | | | | | |
| 40 Choke Size | 41 0 | II | 4: | 2 Water | 43 | Gas | 44 AC | OF . | 45 Test | Method |
| · | | | | | | | | | | |
| 46 I hereby certify | that the rules of t | ne Oil Conse | rvation Div | ision have been c | omplied | | • | | | . ; |
| with and that the | Information given a | sbove is true | and comp | lete to the best of | my | | OIL CONS | SERVATIO | N DIVISION | |
| knowledge and b | elief. | | | C | | | (/ | | | |
| Signature: | Carel | \mathcal{M}^{-} | Mo | <u> </u> | | Approved by: | frees | dento | | |
| Printed name: | Alice M. Majo | | | 0 | | Title: | ~DISHAIC. | 7 1 SUPE | RVISOR | |
| Title: | Production C | lerk | | | | Approval Date: | | | MAR 04 | 1997 |
| Date: | 2/19/ | 97 | Phone: | (505) 393-21 | 153 | | | | | |
| 47 If this is a ch | nange of operato | r fill in the | OGRID n | umber and nam | e of the previous | operator | | | | |
| | | | | | | | | | | |
| alue |) Ma | ia. | Effectiv | e 4-1-96 | Llano, Inc. | 013382 | | Production C | lerk | 2/19/9 |
| | Previou | perator | Signature | • | | Printed Name | • | Titl | e | Date |

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

| Form | C | -10 | ß |
|--------|---|-----|-----|
| Revise | d | 1- | -85 |

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

CONDITIONS OF APPROVAL

OIL CONSERVATION DIVISION WELL API NO. 310 Old Santa Fe Trail, Room 206 Santa Fe, New Mexico 87503 5. Indicate Type of Lease

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 STATE FEE DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410 6. State Oil & Gas Lease No. SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) GRMSU Type of Well: MEIT OIL 2. Name of Operator 8. Well No. と A かり ·NC Address of Operator 9. Pool name or Wildcat HOBBS, NEW MEXICO 92 SANGER Well Location Feet From The WEST Unit Letter 34 NEW MEXICO. LEA County hip 215 Range 34 E 10. Elevation (Show whether DF, RKB, RT, GR, etc.) Section **NMPM** Township Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK **ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS** COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. BLEND AND MIX MATERIAL IN BLOW DOWN PIT to MEET MCA SPECIFICATIONS I hereby certify that the info n above is true and complete to the best of my knowledge and belief. TITLE OPERATIONS MANAGER DATE 8-25.95 SIGNATURE TYPE OR PRINT NAME JOE EAN TELEPHONE NO. 505-(This space for State Use)



PHONE (915) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

PHONE (505) 326-4669 . 118 S. COMMERCIAL AVE. . FARMINGTON, NM 87401

ANALISIS REPORT FINAL

Company: BBC International Address: P.O. Box 297 City, State: Nobbs, NH

Date: 8/23/95 Lab #: #2151

Liano Radson

Date: not given Time: not given Date: 8/23/95 Time: Various Sample Condition: Intact

Project Name: Llano Hads Location: not given Sampled by: JD Analyzed by: JA Sample Type: Soil

Units: ppm

Samp

FIELD CODE

TRPHC

1 GRM SU #2 2 GRM SU #4

1,760.0

OC Recovery OC Spike Accuracy

Nethods - INFRARED SPECTROSCOPY - EPA SW-846; 418.1, 3540 OR 3510

Manuel Garbalena

8-23-95

Date

Submit 5 Copies
Appropriate District Office
DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

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

P.O. Box 2088

OIL CONSERVATION DIVISION CONSERVE ON DIVISION

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

Santa Fe, New Mexico 87504-2088

RECE VED

REQUEST FOR ALLOWABLE AND AUTHORIZATION 11 48

| 1, | 10 11 | MANSP | OHI OIL | ANU NA I | UHAL GA | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|---------------------------------------|----------------|---------------------------------------|----------------|----------------------------------------|---------------------------------------|----------------------------------------------|
| Operator Llano, Inc. | | | | | | Well A | _ | 5-21 | 717 |
| Address | | | | | _ | | 30 UX | J 21 | <u>' </u> |
| 921 W. Sanger Reason(s) for Filing (Check proper box) | Норр | s, | NM 88 | 3240-491 | | *.1 | | | |
| New Well | Change | in Transpo | orter of: | X Othe | t (Please expla | M) | | | |
| Recompletion | • | D ₁ y G | | To Add | Additio | nal Trai | nsporter | of Con | densate |
| Change in Operator | Casinghead Gas | | _ | | | | - | | |
| If change of operator give name and address of previous operator | | | | ····· | | | | | |
| II. DESCRIPTION OF WELL | AND I FASE | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Lease Name | Well N | la Pool N | lame, Includin | g Formation | | Kind o | f Lease | L | ase No. |
| GRM Unit | #2 | Gr | ama Ridg | ge Morro | w | SCALE) | Federal or Fee | E-96 | 59 |
| Location T. | 1980 | | ş | South | | 660 | | West | |
| Unit LetterL | - : | Fect F | rom The | Line | bas | Fee | et From The _ | | Line |
| Section 34 Township | p 21S | Range | 34E | , NI | лрм, | | | Lea | County |
| III. DESIGNATION OF TRAN | SPORTER OF | OIL AN | ND NATUI | RAL GAS | | | | | |
| Name of Authorized Transporter of Oil | 1 1 | densate | | | e address to wh | | | | |
| R & K Oil Company | | | | | Box 1229 | | | | |
| Name of Authorized Transporter of Casing | ghead Gas | or Dry | y Gas 🔯 | | e address to wh . Sanger | | | xm is to be se NM 882 | |
| Llano, Inc. If well produces oil or liquids. | Unit Sec. | Twp | Poe | | y connected? | | | NFI 002 | .40 |
| give location of tanks. | L 34 | 218 | | | s Storag | | | Well | |
| If this production is commingled with that | from any other lease | | | | | | | | |
| IV. COMPLETION DATA | · · · · · · · · · · · · · · · · · · · | | | | | | | | · |
| Designate Type of Completion | - CO | Vell | Gas Well | New Well | Workover | Deepen | Plug Back | Same Res'v | Diff Resv |
| Date Spudded | Date Compl. Read | ly to Prod. | | Total Depth | L | <u> </u> | P.B.T.D. | <u></u> | _1 |
| • | | | | | | | 1.5.1.5 | | |
| Elevations (DF, RKB, RT, GR, etc.) | Name of Producin | g Formatio | PQ . | Top Oil/Gas | Pay | | Tubing Dep | th | |
| Perforations | <u></u> | | | L | | | Depth Casir | g Shoe | |
| | TUBIN | IG. CAS | ING AND | CEMENTI | NG RECOR | D. | <u> </u> | | |
| HOLE SIZE | CASING 8 | | | | DEPTH SET | |] | SACKS CEM | ENT |
| | | | | | | | | | • |
| | | | | | | | ļ | | |
| | | | | | | | | | |
| V. TEST DATA AND REQUE | ST FOR ALLO | WABLE | Ē | 1 | | | ــــــــــــــــــــــــــــــــــــــ | | |
| - | tecovery of total voli | | | be equal to or | exceed top all | owable for thi | is depth or be | for full 24 hor | os.) |
| Date First New Oil Run To Tank | Date of Test | | - 1117, W | | ethod (Flow, p | | | | |
| Length of Test | Tubing Pressure | | | Casing Press | ure | | Choke Size | | |
| | Tubing Tressure | | | | | | | | <u> </u> |
| Actual Prod. During Test | Oil - Bbls. | | | Water - Bbis | | | Gas- MCF | | , |
| GAS WELL | | | | 1 | | | | · · · · · · · · · · · · · · · · · · · | |
| Actual Prod. Test - MCF/D | Length of Test | | | Bbls. Conde | nsate/MMCF | | Gravity of | Condensate | |
| Testing Method (pitot, back pr.) | Tubing Pressure (| Shut-in) | · · · · · · · · · · · · · · · · · · · | Casing Pres | use (Shut-in) | | Choke Size | | |
| | 1 | | | <u> </u> | | | | | |
| VI. OPERATOR CERTIFIC | | | | 1 | OIL CO | MCERV | ΔΤΙΩΝ | DIVISI | ΩN |
| I hereby certify that the rules and regularities and regularities are been complied with and | | | | 11 | OIL CO | MOLITY | | | |
| is true and complete to the best of my | | | J* E | Det | A A A A A A A A A A A A | od | 'AYK A | 2 4 19 9 | 1 |
| Q- 1 | /// | | | Dan | e Approvi | | | | |
| see 1 | | | | By_ | 1 | Tul | 14 M | ran | - |
| Signature Steve Pfaff | wervisor C | ontrac | ct Admin | | 110 | · · | | | |
| Printed Name | 505) 393-21 | Title | | Title | · · | Geol | ogist | | |
| 4/23/91 (Date | JUJJ 373-21 | 73 Telephone | No. | | | | | | |
| The same in the same of the sa | | NA STREET THE PARTY. | | 11 | 1.740W76 278C3 | HITCHTON CAST. | | A DECIMAL PROPERTY. | |

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) Al! sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Sep rate Form C-104 must be filed for each pool in multiply completed wells.

BTATE OF NEW MEXICO Form C-104 Revised 10-1-78 ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION ** ** 4**** ****** DISTRIBUTION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 71LE V. 1. U . 1. LAND OFFICE REQUEST FOR ALLOWABLE THANSPORTER DAS AND **AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS** OPERATOR PROBATION OFFICE Operator 7117 Llano, Inc. Address 20 191 0. Box 1320, Hobbs, New Mexico 88240 Reason(s) for filing (Check proper box) Other (Please explain) ERVITION New Well SANTA FE Ctl Recompletion Dry Gas Change in Ownership Casinghead Gas Condensate X If change of ownership give name and address of previous owner..... II. DESCRIPTION OF WELL AND LEASE well No. Pool Name, including Formation Kind of Lease Lease N State, Federal or Fee State GRM Unit 2 Grama Ridge Morrow E-9659 Location : 1980 Feet From The SOUTH Line and 660 Feet From The Unit Letter Line of Section 34 T. mahip 21S Range 34E , NMPM, Lea Count III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Name of Authorized Transporter of Off Address (Give address to which approved copy of this form is to be sent) NAVAJO CRUDE OIL PURCHASING CO. P. O. Box 159, Artesia. New Mexico 88210
Address (Give address to which approved copy of this form is to be Name of Authorized Transporter of Casinghead Gas of Dry Gas XX P. O. Box 1320, Hobbs, New Mexico 88240 Llano, Inc. Twp. Rge. Sec. Unit If well produces oil or liquids, give location of tanks. 34 21S-: 34E <u>Yes-Gas Storage & withdrawal well</u> If this production is commingled with that from any other lease or pool, give commingling order number: IV. COMPLETION DATA Workover Deepen Gus Well Same Res'v. Diff. Re: Oil Well New Well Plug Back Designate Type of Completion - (X) Total Depth P.B.T.D. Date Compl. Ready to Prod. Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation Top Oil/Gas Pay Tubing Depth Depth Casing Shoe Perforations TUBING, CASING, AND CEMENTING RECORD CASING & TUBING SIZE SACKS CEMENT HOLE SIZE V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top all able for this depth or be for full 24 hours) OIL WELL Date First New Oil Run To Tanks Producing Method (Flow, pump, gas lift, etc.) Tubing Pressure Casing Pressure Choke Size Length of Test Water-Bble. Gas - MCF Actual Prod. Duting Test Oil-Bale. GAS RELL Actual Prod. Tool-MCF/D Length of Test Bble. Condensate/MMCF Gravity of Condensate Testing Method (pirot, back pr.) Tubing Pressure (Shut-in) Cosing Pressure (Shut-in) Choke Size OIL CONSERVATION DIVISION

II. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

| Olklaar | |
|----------------|--|
| (Signature) | |
| Vice President | |

(Title)

November 14. 1984

BY

TITLE

district. A SUPERVISOR

This form is to be filed in compliance with BULE 1104.

If this is a request for allowable for a newly drilled or deeper well, this form must be accompenied by a tabulation of the deviat tests taken on the well in accordance with NULE 111.

All sections of this form must be filled out completely for all able on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of own well name or number, or transporter, or other such change of conditi Separate Forms C-104 must be filed for each pool in multi

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE August 8, 1980

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88240 (505) 393-6161

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

> Llano, Inc. P. O. Drawer 1320 Hobbs, New Mexico 88240

Attention Mr. Al Klaar

Re: Exception to Rule 402

Gentlemen:

As requested in your letter of August 6, 1980, and for the reasons outlined therein, the wells listed below will be exempt from the 1980 shut-in pressure tests required by Division Rule 402.

| LUSK MORROW GAS POOL | | | | | | | |
|-----------------------------|-----|---|--------|------|-----|---------|--------|
| Plains Unit Federal | No. | 2 | Unit E | Sec. | 28, | T-19-S, | R-32-E |
| Southern California Federal | No. | 1 | Unit H | Sec. | 29, | T-19-S, | R-32-E |
| | | | | | | | |

| GRAMA RIDGE MORROW GAS POOL | | | | |
|-----------------------------|-------|--------|------|--------------------|
| GRM Unit | No. 1 | Unit E | Sec. | 3, T-22-S, R-34-E |
| GRM Unit | No. 2 | Unit L | Sec. | 34, T-21-S, R-34-E |
| GRM Unit | No. 3 | Unit J | Sec. | 33, T-21-S, R-34-E |
| GRM Unit | No. 4 | Unit F | Sec. | 4, T-22-S, R-34-E |

Yours very truly,

OIL CONSERVATION DIVISION

Jerry Sexton

Supervisor, District 1

mс

cc₇R. L. Stamets OCD, Santa Fe AUG 1 MICH DINSION

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

| SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| SECTION A | | | | | | | | | |
| Operator structure and the least the large least the large Morrow Unit the large least the | | | | | | | | | |
| 1 | L 34 East aisa Encised Lea | | | | | | | | |
| ctual Footage Location of Well: 30.000 responsible responsible responsible from the South line and 660 feet from the specified line | | | | | | | | | |
| Ground Level Elev. Producing Formation 3641 Producing Formation 3641 Producing Formation | | | | | | | | | |
| 1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO X . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.) 2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO If answer is "yes," Type of Consolidation Unit Agreement 3. If the answer to question two is "no," list all the owners and their respective interests below: Owner Oh 3 - 9" Land Description 33-95-8 | | | | | | | | | |
| | | | | | | | | | |
| SECT | ION B | CERTIFICATION | | | | | | | |
| K-3592 Llano et al (WI) State (1/8 Royalty) | | I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief. Name | | | | | | | |
| | CLOSTED DE MILES | Al Klaar Position Mgr. Pet. & N.G. Engr. Company Llano, Inc. Date May 2, 1979 | | | | | | | |
| E-9659 Llano (WI) _660State (1/8 Royalty) | E.A. CARLON STREET | I hereby certify that the well location shown on the plat in SECTION B 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. | | | | | | | |
| pool limits and changing pool r | .C.D. Order R-5995 contracting ules to 320 acre spacing. | Date Surveyed 9-30-65 Registered Professional Engineer and/or Land Surveyor T. E. Chapman, Jr. Certificate No. | | | | | | | |

STATES CAME OFFICE

CCMUNITIZATIONS

COLUMITIZATION NAME:

4-19-65

SHELL GRB STAME COM WELL NO. 1

OPERATOR:

SHELL OIL COMPANY

DATE APPROVED:

April 19, 1966 April 19,

Sec 34 T21SR34E -All

×

DATE EFFECTIVE: COUNTY:

Lea County

TOTAL ACREAGE:

640.00

DEDICATED TO:

STATE ACREAGE:

A11

Grama Ridge-Morrow Gas Pool

INSTITUTION:

Common Schools

TERM OF COMMUNITIZATION:

So long as

WELL LOCATION:

NW/4SW/4

RGE. TWP.

SEC.

SUBDIVISION

K-3592-1

N/2

34E

215

34

8/2

34E

218

34

E-9659-0

Gulf Oil Corporation

Shell Oil Company

LESSEE

LEASE NO.

320,00 640.00

ACREAGE

320,00

-ERMINATEI EN: 4-25-73

| DISTRIBUTION | Form C-103 Supersedes Old |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| | C-102 and C-103 |
| SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION | Effective 1-1-65 |
| LAND OFFICE OPERATOR | (to leden T |
| U.5.G.S. | 50. Indicate Typo of Leaso |
| LAND OFFICE | State X Fee |
| OPERATOR | 5. State Off & Gas Leane No. |
| | E-9659 |
| SUNDRY NOTICES AND REPORTS ON WELLS | |
| TOO NOT USE THIS FORM FOR PROPOSALS TO COLD CHITCH CHIP IS EACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERSON "" (FORTH CHICA SUCH PROPUSALS.) | |
| | 7. Unit Agreement Name |
| OTHER. Gas Storage Well | Grama Ridge Morrow |
| 2. Name of Circular | 6. Farm or Lease Name |
| Llano, Inc. | GRM Unit |
| 3. Address of Operator | 9. Well No. |
| P. O. Box 1320, Hobbs, New Mexico 88240 | 2 |
| 4. Lecation of Well | 10. Field and Pool, or Wildeat |
| UNIT LETTER L 1980 FEET FROM THE SOUTH LINE AND 660 FEET FROM | Grama Ridge Morrow |
| UNIT LETTER FEET FROM THE LINE AND FEET FROM | |
| THE West LINE, SECTION 34 TOWNSHIP 21-S RANGE 34-E NMPM. | |
| THE TOWNSHIP TOWNSHIP RANGE NMPM. | |
| 15. Elevetion (Show whether DF, RT, GR, etc.) | 12. County |
| 3651 DF | Lea |
| | |
| Check Appropriate Box To Indicate Nature of Notice, Report or Other | |
| NOTICE OF INTENTION TO: SUBSEQUENT | REPORT OF: |
| | |
| PERFORM REMEDIAL WORK | ALTERING CASING |
| TEMPORANILY ABANDON COMMENCE DRILLING OPNS. | PLUG AND ABANDONMENT |
| PULL OR ALTER CASING [] CHANGE PLANS [] CASING TEST AND CEMENT JOB [] OTHER Status | Denont |
| OTHER JUGUST | Report . |
| OTHER | |
| | |
| | stimuted date of starting any propos |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including e work) SEE RULE 1103. | stimated date of starting any propos |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including c | stimated date of starting any propos |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including c | stimuted date of starting any propos |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including e work) SEE RULE 1103. | |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including e work) SEE RULE 1703. Pursuant to the "Amendment to Unit Agreement for Operation of the Grama | Ridge Morrow Unit |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including a work) SEE RULE (193). Pursuant to the "Amendment to Unit Agreement for Operation of the Grama Area, Lea County, New Mexico," the GRM Unit Well No. 2 is being utilized | Ridge Morrow Unit as a gas storage |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including e work) SEE RULE 1703. Pursuant to the "Amendment to Unit Agreement for Operation of the Grama | Ridge Morrow Unit as a gas storage |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including a work) SEE RULE (193). Pursuant to the "Amendment to Unit Agreement for Operation of the Grama Area, Lea County, New Mexico," the GRM Unit Well No. 2 is being utilized | Ridge Morrow Unit as a gas storage |
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| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including a work) SEE RULE 1703. Pursuant to the "Amendment to Unit Agreement for Operation of the Grama Area, Lea County, New Mexico," the GRM Unit Well No. 2 is being utilized well for purposes of injecting and withdrawing natural gas volumes from the GRAM of the Grama Area, Lea County (County) | Ridge Morrow Unit as a gas storage the Morrow Formation. |
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CONDITIONS OF APPROVAL, IF ANY

| | | | • | | |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| | DEFINITION SANTA FE | • | CONSERVATION COM | MISSION | Poim C-104 Supersedes Old C-104 on Effective 1-1-65 |
| | U.S.G.S. LAND OFFICE | AUTHORIZATION TO TRA | AND ANSPORT OIL AND | NATURAL GAS | |
| 1. | TRANSPORTER GAS OPERATOR PRORATION OFFICE | 1 | 0 1979 | | · |
| | Llano, Inc. | or this | ,,;;= 5- | | |
| | P. O. Box 1320, Hobb Reason(s) for filing (Check proper bo. | s. New Mexico 88240 | Other (Pleas | se explain) NAME C | HANCE |
| | New Woll Recompletion Change in Ownership | Change in Transporter of: Oil Dry Go Casinghead Gas Cender | From: | State GRB Com. GRM Unit No. 2 | No. 1 |
| | If change of ownership give name and address of previous owner | | | | |
| Ħ. | DESCRIPTION OF WELL AND | Well No. Pool Name, Including F | | Kind of Lease | Leans |
| | GRM Unit | 2 Grama Ridge M | | State, Federal or Fed | |
| | | 980 Feel From The South Lin | 34E , NMP | Feet From The | |
| II. | The annual statement of the statement of | TER OF OIL AND NATURAL GA | | <u> </u> | <u>u</u> |
| | Name of Authorized Transporter of Ol Navajo Crude Oil Purcha Name of Authorized Transporter of Ca Llano, Inc. | or Condensate (X) Asing Co. Isinghead Gae or Dry Gas (X) | N. Freeman Av Address (Give address P. O. Box 132 | e., Artesia, No to which approved cop O, Hobbs, New I | y of this form is to be sent) ew Mexico 88210 y of this form is to be sent) Mexico 88240 |
| | If well produces oil or liquids, give location of tanks. | Unit Sec. Twp. Pige. L 34 21S 34E | 1s gas actually connec Yes - Gas Sto | ^{ted?} አ ሃሃሃ rage & ¦Withdr | awal Well |
| ₹. | If this production is commingled with COMPLETION DATA | ith that from any other lease or pool, | give commingling erd | | Back Suine Resty, Dill. F |
| | Designate Type of Completi | | Total Depth | P.B.1 | |
| | Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | Top Oil/Gas Pay | Tubin | ng Depth |
| | Perforations | | | Depth | Casing Shoo |
| | | TUBING, CASING, AND | CEMENTING RECO | RD | |
| | HOLE SIZE | CASING & TUBING SIZE | DEPTHS | SET . | SACKS CEMENT |
| | | | | | |
| ٧. | TEST DATA AND REQUEST FOR WELL | OR ALLOWABLE (Test must be a able for this de | pth or be for full 24 hour | | t be equal to or exceed top |
| | Longth of Test | Tubing Pressure | Casing Pressure | | c Size |
| | Actual Prod. During Test | Oil-Bbls. | Water-Bbls. | Gan. | MCF |
| | | | <u></u> | <u></u> | |
| | GAS WELL Actual Frod. Tool-MCF/D | Length of Test | Bbls. Condonacte/MMC | Gravi | ty of Condensate |
| | Testing histhad (pitot, back pr.) | Tubing Pressure (Shut-in) | Casing Pressure (Shul | c-in) Choke |) S(26 |
| ' I . | CERTIFICATE OF COMPLIAN | CE | | conservation AR 15 1978 | COMMISSION |
| | Commission have been compiled t | regulations of the Olf Conservation with and that the information given beat of my knowledge and belief. | APPROVED_ | y Soll | 5 |
| | LLANO, INC. | | This form is to | SUPERVISO o be filed in complia | P DISTRICT T- |
| | CONTRACTOR OF AN ARCHITICAL APPROXIMATION OF THE PROPERTY OF T | allue) | If this is a rec | unet for allowable for | or a newly diffied or deep a tabulation of the devi |

Executive Vice President

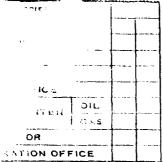
(Title) February 28, 1978 (Data)

| 10tm C-104 | | | | |
|-------------|------|-------|------|---|
| Superselles | ou t | :-104 | nn.l | 1 |
| £146 | | | | |

Lease No

E-9659

| | • | | - | | | | |
|----------------|----------------|--------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|--|
| New Well | Workover | Deepen | Plug Back | Sume Resty. | Duf. Res | | |
| Total Depth | L | | P.B.T.D. | £ | 1 | | |
| Top Oll/Gas | Pay . | | Tubing Dep | lh | | | |
| | | | Depth Castr | ig Shoe | | | |
| CEMENTIN | IG RECORD | | | | | | |
| | DEPTH SET | Γ | SA | CKS CEMEN | 17 | | |
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| th or be for f | ull 24 hours) | e of load oil a | | qual to or exce | ead top alto | | |
| | | | | | | | |
| Casing Pres | suro | | Choke Size | | | | |
| Water-Bbls. | | | Gan • MCF | | | | |
| | • | | | | | | |
| Bbls. Condo | negte/MMCF | | Gravity of C | Condensate | | | |
| Casing Pres | ouro (Shut-1 | n) | Choke Size | | | | |
| | OIL CO | ONSERVA | TION CON | MISSION | | | |
| APPRO | E M | IR 15 1 | 278 | , 19 | - | | |
| | Like | 1/1/1 | | • | | | |
| 5Y- | 7 | | day | | | | |
| TIFTYEL | | STIPER | VISOR ! | DISTRIC | TI_ | | |
| Thie | | | | ith RULE 1 | | | |
| well, this | form muct b | st for allow named accompan | ded by a till | owly difflod on the cutter of | ar deopant Ea devieth | | |
| allA | octions of the | da Larr mus mgdatad wal | it ha filled o | ut completel | y for ello | | |
| FIH | out only par | ctions I. H. | III, and VI | for changes when the | s of owne Lecaditio | | |
| • . | | | | | | | |



NEW MEXICO OIL, CONSERVACION COMMISSION REQUEST FOR ALL UWABLE

ALID

AUTHORIZATION TO TRANSPORT OF AND NATURAL GAS

Form C-104 Supersedes Old C-104 and C-11 Effective 1-1-65

LEGIBLE

| CATION OFFICE | | | | | |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|---------------------------------------|
| Llano, | Inc. | | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · |
| P.O. Box | k 1320 Hobbs, New Mex | ico | | | |
| New Well | :) | | ise explain) | | |
| Recompletion | Change in Transporter of: Oil Dry Gr | | | • | |
| Change in Ownership | Custinghead Gaz Conte | f i | | | |
| If change of ownership give name | and remainded to the control of the | Frief | ive_Augus | st 8, 1975 | -i |
| and address of previous owner | administration and records complete that as an order of the desires of administration of the second | * ** | | | |
| DESCRIPTION OF WELL AND | LEASE Well No. Pool Name, including F | ormation | Kind of Lease | · · · · · · · · · · · · · · · · · · · | Lease No. |
| State GRB Com. | 1 Grama Ridge Mo | orrow (gas) | State, Federal | lorFee state | E-9659 |
| | Feet From The South 111 | no and660 | Feet From 7 | The West | |
| Line of Section 34 To | wnship 21-S Hange 34 | 4-E , NMF | [⊳] M. Lea | | County |
| | TER OF OIL AND NATURAL G | | | | |
| Name of Authorized Transporter of Oi | | Address (Give addres | s to which approx | ved copy of this form is | to be sent) |
| Name of Authorized Transporter of Ca | chasing Co. | N. Freeman, | Artesia, | N. M. 88210 ved copy of it is form is | to be sent) |
| Llano, Inc. | Unit Sec. Twp. Fige. | Is yas actually conne | cted? Whe | | |
| If well produces cil or liquids, give location of tanks. | L 34 21-S 34-E | | Credy whe | en | |
| If this production is commingled with COMPLETION DATA | Oil Well Gas Well | Tite "ell Workeve | | Div Dark Com De | - L Tout B |
| Designate Type of Completi | | the att Actives | Deepen | Plug Back Same Res | stv. ' Diff. Restv. |
| Date Spudded | Date Compl. Ready to Prod. | Total Depth | <u>i</u> | P.B.T.D. | <u> </u> |
| Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | To Ju/Gas Pay | · many selfe di sementale di disensi sina | Tubing Depth | |
| Perforations | and the same of th | | | Depth Casing Shoe | |
| | TUBING, CASING, AH | Diretaring (EC) | 0 | | |
| HOLE SIZE | CASING & TUBING SIZE | DEFTH | SET | SAC C | |
| | | | | | |
| | | | | | |
| | | | . even on turnelli, talips. | 1 | |
| TEST DATA AND REQUEST F | OR ALLOWABLE (Test must be . | di si ruca, a y a j terak da Optis in au yar fa el 24 has | | and must | 3 - T _{Le} - |
| Date First New Oil Run To Tanks | Date of Test | Production Method (Fi | | (t, etc.) | |
| Length of Test | Tubing Pressure | S | | She's was | |
| Actual Prod. During Test | Oil-Bbla. | Water - Bbls. | | Car-MCF | |
| | The second secon | Commission of the second second second | december of color account states. Adv. Trace. | | |
| GAS WELL Actual Prod. Test-MCF/D | Length of Test | Bila. Condensute/MM | (CF | Gravity of Condensate | |
| Testing Method (pitot, back pr.) | Tubing Pressure (Shut-in) | Casing Proseure (Su | ut-in) | Choke S.ze | |
| | The second secon | | o man of Mallace manyallaceman and many | | |
| CERTIFICATE OF COMPLIAN | | | CONSERVA AUG | TION COMMISSIO 11 1975 | N |
| Commission have been complied | regulations of the Oil Conservation with and that the information given | | in It | // - | · · · · · · · · · · · · · · · · · · · |
| above is true and complete to the | e best of my knowledge and belief, | BY | C. | ologist | |
| Pr. M. | | Tille | (Je | CYC 2489 | |
| V//14271. | Mah | 11 | | compliance with RUL | |
| | ature) | wall, this form mu | ist be accompai | rable for a newly drill nied by a tabulation o | .! the deviation |
| Vice President | | touts taken on the | e well in accor | dence with NULE 11 at be filled out comple | 1. |
| | | ii aii eeciions | or rive folds min | ar na tittar ogt coulbi | IOI STIOM- |

(Title)

(Date)

August 8, 1975

All sections of this form must be filled out completely for allowable ω_{ii} new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner,

| NO. OF COPIES RECE | IVED | | |
|--------------------|------|--|--|
| DISTRIBUTIO | N | | |
| SANTA FE | | | |
| FILE | | | |
| U.S.G.S. | | | |
| LAND OFFICE | | | |
| IRANSPORTER | OIL | | |
| THANS! ON ER | GAS | | |
| OPERATOR | | | |
| PRORATION OF | ICE | | |
| Operator | | | |

NEW MEXICO OIL CONSERVATION COMMISSION

| | SANTA FE | REQUEST | FOR ALLOWABLE | | Supersedes Old C-104 and C-1 |
|------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| ŀ | FILE | 4 | AND | | Effective 1-1-65 |
| | U.S.G.S. | _ AUTHORIZATION TO TRA | INSPORT OIL AND N | ATURAL GAS | |
| - 1 | LAND OFFICE | 4 | | | |
| | TRANSPORTER GAS | - | | | |
| | OPERATOR | | | | |
| | PRORATION OFFICE | - | | | |
| 1. | Operator | | | · · · · · · · · · · · · · · · · · · · | |
| | Llano, Inc. | | | | |
| | Address | | | | |
| | P. O. Drawer 1: | 320, Hobbs, New Mexico 8 | 8240 This well | is now an i | injection well; |
| i | Reason(s) for filing (Check proper bo | *) | | | te to be transporte |
| | New Well | Change in Transporter of: | | | reclassification. |
| | Recompletion | Oil Dry Ga | 1 1 1 | - | |
| | Change in Ownership | Casinghead Gas Conder | sate X Effective | e October 1, | , 1973 |
| | If change of ownership sing name | | | | |
| | If change of ownership give name and address of previous owner | | | | |
| | | | | | |
| II. | DESCRIPTION OF WELL AND | | · · · · · · · · · · · · · · · · · · · | 161 3 61 | |
| 4-1 | Letise Name | Well No. Pool Name, Including F | 1 | Kind of Lease | Lease No. |
| | GRB Comm | 1 Grama Ridge Mo | rrow (Gas) | State, Federal or Fe | • State E-9659 |
| / | Location | 200 | | | |
| | Unit Letter L ; 19 | 980 Feet From The South Lin | e and 660 | Feet From The | West |
| | Line of Section 34 To | ownship 21-S Range | 34-E , NMPM. | Taa | |
| | Line of Section 34 To | ownship ZI-S Range | 34-E , NMPM, | Lea | 2 County |
| III. | DESIGNATION OF TRANSPOR | TER OF OIL AND NATURAL GA | œ | | |
| | Name of Authorized Transporter of O | | | which approved cor | py of this form is to be sent) |
| | Minerals, Inc. | | P. O. Drawer 1 | 320 Hobbs | New Mexico 88240 |
| | Name of Authorized Transporter of Co | rsinghead Gas or Dry Gas | Address (Give address t | which approved cor | by of this form is to be sent) |
| | · | | | | |
| | If well produces oil or liquids, | Unit Sec. Twp. P.ge. | Is gas actually connecte | d? When | |
| | give location of tanks. | | | į | |
| | If this production is commingled w | ith that from any other lease or pool, | give commingling order | number: | |
| | COMPLETION DATA | the that from any other rease or poor, | Brio comminging order | | |
| | Designate Type of Complete | Oil Well Gas Well | New Well Workover | Deepen Plug | Back Same Res'v. Diff. Res'v |
| | | | | | |
| | Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B. | .T.D. |
| | Flower OF BUD DE OF | No. of Section Section | Tee Oil (Can Day) | Tubi | Ing Depth |
| | Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | Top Oil/Gas Pay | Tubi | ng Depth |
| | Perforations | | | Dept | th Casing Shoe |
| | 1 0.10.4,10.15 | | | | |
| | | TUBING, CASING, ANI | CEMENTING RECOR | | |
| | HOLE SIZE | CASING & TUBING SIZE | DEPTH SE | | SACKS CEMENT |
| | | | | | |
| | <u> </u> | | | | |
| | | | | | |
| | | | | | |
| v. | TEST DATA AND REQUEST I | FOR ALLOWABLE (Test must be a | fter recovery of total volui | ne of load oil and my | set be equal to or exceed top allow |
| •• | OIL WELL | able for this de | pth or be for full 24 hours |) | |
| | Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow | , pump, gas lift, etc. |) |
| | | <u> </u> | | | |
| | Length of Test | Tubing Pressure | Casing Pressure | Chol | ke Size |
| | | | | | |
| | Actual Prod. During Test | Oil-Bbls. | Water - Bbls. | Gas | -MCF |
| | | <u> </u> | <u> </u> | | |
| | | | | | |
| | GAS WELL | It amount of Mana | Phile Condenses AAGS | 16:- | |
| | Actual Prod. Test-MCF/D | Length of Test | Bbis. Condensate/MMCI | Grav | vity of Condensate |
| | Toute Valled (size back as) | Tubing Pressure (Shut-in) | Casing Pressure (Shut- | 49.) Chal | ke Size |
| | Testing Method (pitot, back pr.) | I more the control of | Cosing Pressure (succe | Choi | re dize |
| | | | | | |
| ¥1. | CERTIFICATE OF COMPLIAN | NCE. | | ONSERVATION | V COMMISSION |
| | I handly postific that the suite and | regulations of the Oil Consequent | APPROVED | VUV 1410 | 173) |
| | Commission have been complied | regulations of the Oil Conservation with and that the information given | 60 | X MA | |
| | above is true and complete to the | ne best of my knowledge and belief. | BY A | THE STATE OF THE S | PRICT T |
| | \wedge | | TITLE SUPER | MINUTE DES | 111101 1 |
| | | 017 | \parallel / $/$ | | lance with mill = 4484 |
| | V // 11 1/. | 1 +1.10. | I ~ Ture tout in to | na ittad IN combii | lance with RULE 1104. |

(Signature) Vice President-Planning and Development

(Title)

November 2, 197/ (Date)

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells,

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

| , 3 | | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| -NO. OF COPIES RECEIVED | 7 | Form C-103 |
| DISTRIBUTION | | Supersedes Old |
| SANTA FE | NEW MEXICO OIL CONSERVATION COMMISSION | C-102 and C-103 Effective 1-1-65 |
| FILE | | 2110011110 1-1-03 |
| U.S.G.S. | | 5a. Indicate Type of Lease |
| LAND OFFICE | - | State X Fee |
| OPERATOR | 7 | 5, State Oil & Gas Lease No. |
| | _ | E-9659 |
| SUND (DO NOT USE THIS FORM FOR P | RY NOTICES AND REPORTS ON WELLS ROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. ATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.) | |
| 1. | | 7. Unit Agreement Name |
| OIL GAS WELL | OTHER- Injection | Grama Ridge Morrow |
| 2. Name of Operator | | 8. Farm or Lease Name |
| Llano, Inc. | | State GRB Com |
| 3. Address of Operator | | 9. Well No. |
| P. O. Box 1320, Hob | bs, New Mexico 88240 | One |
| 4. Location of Well | | 10. Field and Pool, or Wildcat |
| UNIT LETTER L | 1980 FEET FROM THE South LINE AND 660 FEET FROM | Grama Ridge |
| UNIT LETTER | TREE FROM THE LINE AND FEET FROM | |
| THE West LINE, SECT | TION 34 TOWNSHIP 21-S RANGE 34-E NMPM. | |
| | / | |
| | 15. Elevation (Show whether DF, RT, GR, etc.) | 12, County |
| <u>VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</u> | | Lea |
| | Appropriate Box To Indicate Nature of Notice, Report or Oth | |
| | the control of the co | |

- 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.
 - 1. Plugged off tbg and pressured to 1200 psi. Bradenhead sqzd thru 13-3/8 x 9-5/8 annulus w/2000 sx cmt while holding 1200 psi on 9-5/8 x 2-1/2 annulus.
 - 2. Ran temp survey: Top of cement at 600', btm of cement at 8950'.

PLUG AND ABANDON

3. Ran Baker Mod. "F" pkr to 12,680'.

PERFORM REMEDIAL WORK

- 4. Lost seal assembly off btm of tbg. Blanking plug fell out at seal assembly and along side of seal assembly mandrel. Pushed to 12,764' and leave in hole.
- 5. Ran Baker Lok-Set pkr to 12,636' with "on-off" tool on top.
- 6. Swbd well in and prepare for injection well.

| 18. I hereby certify that the information above to true and complete to the best of my knowledge and belief. | |
|--------------------------------------------------------------------------------------------------------------|-------------|
| SIGNED Local TITLE Vice President | 9/11/73 |
| APPROVED BY THE THE PROVISOR DISTRICT I | SEP 17 1973 |
| CONDITIONS OF APPROVAL, IF ANY: | |

| NO. OF COPIES RECEIVED |] | | Form C-103 |
|------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| DISTRIBUTION | 1 | | Supersedes Old |
| SANTA FE | NEW MEXICO OIL CONS | ERVATION COMMISSION | C-102 and C-103 Effective 1-1-65 |
| FILE | 1 | | |
| U.S.G.S. | 1 | | 5a. Indicate Type of Lease |
| LAND OFFICE | 1 | | State X Fee. |
| OPERATOR | 1 | | 5. State Oil & Gas Lease No. |
| | | | E-9659 |
| SUNDA | RY NOTICES AND REPORTS ON OPPOSALS TO BRILL OR TO DEEPEN OR PLUG B | WELLS | |
| USE "APPLICAT | ION FOR PERMIT - FORM C-101) FOR SUC | H PROPOSALS.) | 7. Unit Agreement Name |
| OIL GAS WELL | other- Injection | | Grama Ridge Morrow |
| 2. Name of Operator | | | 8. Form or Lease Name (6. |
| Llano, Inc. | | | State GRB Com |
| 3. Address of Operator | | | 9. Well No. |
| | bs, New Mexico 88240 | | 1 |
| 4. Location of Well | | | 10. Field and Pool, or Wildcat |
| UNIT LETTER L | 980 FEET FROM THE South | LINE AND 660 FEET FROM | Grama Ridge |
| THE West LINE, SECTI | on 34 TOWNSHIP 21-S | RANGE 34-E NMPM. | |
| | 15. Elevation (Show whether | DF, RT, GR, etc.) | 12. County Lea |
| Check | Appropriate Box To Indicate N | ature of Notice, Report or Oth | er Data |
| | NTENTION TO: | SUBSEQUENT | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | ALTERING CASING |
| PULL OR ALTER CASING | CHANGE PLANS | CASING TEST AND CEMENT JOB | PLUG AND ABANDONMENT |
| | | OTHER | |
| OTHER Casing Test & Cer | ment Job x | | |
| 17. Describe Proposed or Completed Opwork) SEE RULE 1 103. | perations (Clearly state all pertinent deta | rils, and give pertinent dates, including | estimated date of starting any proposed |
| Begin Work 8/20/73 | | | |
| 1. Drop blank-off plu | g in 2-1/2" tubing and lo | oad tubing and tubin -9- | 5/8" annulus |
| w/KCL water. | 5 2/2 | one capting and capting y | -, |
| | on tubing 9-5/8" annulus | and squeeze 2000 sx of | dement down 9-5/8" - |
| | order to shut-off leak i | | |
| 9-5/8" not protect | | | |
| | own tubing to locate top | and/or bottom of cement | squeeze. |

- 4. Pressure-up on 2-1/2" 9-5/8" annulus to test cement squeeze.
 5. Swab tubing dry and pull blank-off plug.
 6. Prepare for injection.

| 18. I hereby certify that the information above is true and complete to the best of my knowledge and belief. | | |
|--------------------------------------------------------------------------------------------------------------|-------|---------|
| SIGNED Journald Harry TITLE Vice President | DATE_ | 8/17/73 |
| APPROVED BY AUTHOR TITLE TITLE TOTAL | DATE_ | |
| CONDITIONS OF APPROVAL, IF ANY: | | |

| NO. OF COPIES RECEIVED | ገ . | | Fee- C 102 |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| | 1 | | Form C-103 Supersedes Old |
| DISTRIBUTION SANTA FE | NEW MEXICO OIL CONSERV | A TION COUNTSTON | C-102 and C-103 |
| FILE | HEW MEXICO OIL CONSERV | A I ION COMMISSION | Effective 1-1-65 |
| U.S.G.S. | - | | 5a. Indicate Type of Lease |
| LAND OFFICE | - | | State X Fee |
| OPERATOR | † | | 5. State Oil & Gas Lease No. |
| OF EMATOR | | | E-9659 |
| SUND | AND DEDODIE ON WE | 110 | mmmilitimik |
| | RY NOTICES AND REPORTS ON WE oposals to drill or to deepen or plug back tion for permit —" (form C-101) for such pro | LLJ TO A DIFFERENT RESERVOIR. OPOSALS.) | |
| OIL GAS X | OTHER• | | 7. Unit Agreement Name |
| 2. Name of Operator | OTHER | | 8. Farm or Lease Name |
| Llano, Inc | _ | | State GRB |
| 3. Address of Operator | • | | 9. Well No. |
| P. O. Draw | er 1320, Hobbs, New Mexico | 88240 | 1 |
| 4. Location of Well | EI 1320; HODDS; New Hearto | | 10. Field and Pool, or Wildcat |
| UNIT LETTER | 1980 FEET FROM THE South | INE AND 660 FEET FROM | Grama Ridge Morrow (Ga |
| Work to | | | |
| THE West LINE, SECT | 10N 34 TOWNSHIP 21+S | RANGE NMPM. | |
| annananananananananananananananananana | 15. Elevation (Show whether DF, | RT, GR, etc.) | 12. County |
| | 3651 DF | | Lea |
| 16. Check | Appropriate Box To Indicate Natur | re of Notice Report of Otl | nor Data |
| | NTENTION TO: | • | REPORT OF: |
| NOTICE OF I | NIENTION TO. | SUBSEQUENT | REPORT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON REP | MEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON | | MMENCE DRILLING OPNS. | PLUG AND ABANDONMENT |
| PULL OR ALTER CASING | | SING TEST AND CEMENT JOB | , too and againsonment |
| | - | OTHER | Γ. |
| OTHER | | | |
| | | | |
| 17. Describe Proposed or Completed C work) SEE RULE 103. | perations (Clearly state all pertinent details, | and give pertinent dates, including | estimated date of starting any proposed |
| will be squeezed w | ak with retrievable plug and ith 750 sacks cement and dried with an "on-off" tool) as water. | illed out. The tubin | g will be re-run |
| | | A CONTRACT OF THE PARTY OF THE | |
| | · | | |
| 18. I hereby certify that the information | above is true and complete to the best of my | knowledge and belief. | |

SUPERVISOR DISTRICT I CONDITIONS OF APPROVAL, IF ANY:

FEB 23 1973

2/22/73

DATE

Vice President⊸Planning and Development

| | | 5 | • | • • |
|-------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|---------------------------------------------------|
| | NO. OF COPIES RECEIVED | | | |
| | DISTRIBUTION | | | |
| | SANTA FE | | ONSERVATION COMMISSION | Form C-104 |
| | FILE | REQUEST | FOR ALLOWABLE | Supersedes Old C-104 and C Effective 1-1-65 |
| | u.s.g.s. | AUTHORIZATION TO TRA | AND | |
| | LAND OFFICE | AUTHORIZATION TO TRA | NSPORT OIL AND NATURAL | SAS |
| | OIL | | 一门时间以前两件处理门 | |
| | TRANSPORTER GAS | | | |
| | OPERATOR | | W FEB 2.2 1973 | |
| 1. | PRORATION OFFICE | · | | 11) |
| •• | Operator | ' | OIL CONSERVATION CO | \$7.3A |
| | Llano, Inc. | | Santa Fo | |
| | Address | | | |
| | P. O. Drawer 1: | 320, Hobbs, New Mexico 8 | 8240 | |
| | Reason(s) for filing (Check proper box) | | Other (Please explain) | |
| | New Well | Change in Transporter of: | Effective: Febr | uary 1 1973 |
| | Recompletion | Oil Dry Ga | · _ Directive: Febr | dary 1, 1775 |
| | Change in Ownership X | Casinghead Gas Canden | sate X | |
| | If change of augreeating size next | | | |
| | If change of ownership give name and address of previous owner | Bettis, Boyle & Stovall, | Box 1168, Graham, Texa | s 76046 |
| | | | • | |
| 11. | DESCRIPTION OF WELL AND I | LEASE | | |
| | Lease Name | Well No. Pool Name, Including Fo | | |
| | State GRB Com | 1 Grama Ridge M | orrow (Gas) State, Federa | 1 or Fee State E-9659 |
| | Location | | | |
| | Unit Letter L ; 1980 | Feet From The South Line | e and 660 Feet From | The West |
| | . , | 01 0 | _ | _ |
| | Line of Section 34 Tow | nship 21-S Range 34 | -E , NMPM, | Lea County |
| | | · | · · | |
| III. | Name of Authorized Transporter of Oil | | S Address (Give address to which appro- | and corn of this form in to be seen |
| | i . | Or Condensate X | Address force dutiess to which appro- | ver copy of this form is to be sent; |
| | To be determined. Name of Authorized Transporter of Cas | inghead Gas or Dry Gas 😴 | Address (Give address to which appro- | and come of this form is to be sent? |
| | 1 | | ! | • |
| | Phillips Petroleum (| | Room B-2, Phillips Bldg Is gas actually connected? Who | |
| | If well produces oil or liquids, give location of tanks. | | | 3/17/66 |
| | | , 5 , 54 , 21-0,54-1 | Yes | 3/1//00 |
| 11 , | If this production is commingled wit | h that from any other lease or pool, | give commingling order number: | |
| IV. | COMPLETION DATA | Oil Well Gas Well | New Well Workover Deepen | Plug Back Same Res'v. Diff. Res |
| | Designate Type of Completio | n - (X) | | |
| | Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B.T.D. |
| | | | | |
| | Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | Top Oil/Gas Pay | Tubing Depth |
| | | | | |
| | Perforations | | | Depth Casing Shoe |
| | | | | |
| | | TUBING, CASING, AND | CEMENTING RECORD | |
| | HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT |
| | | | | |
| | | | | |
| | | | | |
| | | | <u> </u> | |
| V. | TEST DATA AND REQUEST FO | OR ALLOWABLE (Test must be a) | ter recovery of total volume of load oil | and must be equal to or exceed top all |
| | OIL WELL | able for this de | pth or be for full 24 hours) | |
| | Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow, pump, gas li | ft, etc.) |
| | <u> </u> | | | |
| | Length of Test | Tubing Pressure | Casing Pressure | Choke Size |
| | | | | |
| | Actual Prod. During Test | Oil-Bbis. | Water-Bbls. | Gas-MCF |
| | <u> </u> | | <u> </u> | |
| | | • | | • |
| | GAS WELL | It | Lavia de la companya | |
| | Actual Prod. Test-MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| | Testing Method (pitot, back pr.) | Tubing Pressure (Shut-in) | Casing Pressure (Shut-in) | Choke Size |
| | * sering watered (https:/ orc.s. bis) | - much Leasone (SURE-TH) | | Judge Size |
| *** | OPPRINGAME OF COUNTY AND | | -OU CONSERVA | TION COMMISSION |
| VI. CERTIFICATE OF COMPLIANCE OIL CONSERVATION COMMIS | | | | TION COMMISSION |
| /_) FFR 10 1 | | | | |
| | , | amilations of the Oil December | APPROVED FEB 1 | 9 19/3 |
| | I hereby certify that the rules and r Commission have been complied w | ith and that the information given | APPROVED FEB 1 | 9 1973 |
| | I hereby certify that the rules and r | ith and that the information given | BY MOUR | 9 1973 . 19 |
| | I hereby certify that the rules and r Commission have been complied w | ith and that the information given | BY SUPERVISOR | 9 1973 DISTRICT I |
| | I hereby certify that the rules and r Commission have been complied w | ith and that the information given | BY SUPERVISOR | 9 1973, 19 DISTRICT I compliance with RULE 1104. |

Vice President-Planning and Development

(Date)

February 16,

Fill out only Sections I, II, III, and VI for changes of ow well name or number, or transporter, or other such change of condit Separate Forms C-104 must be filed for each pool in mult

If this is a request for allowable for a newly drilled or deepe well, this form must be accompanied by a tabulation of the deviatest taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for all sbie on new and recompleted wells.

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| DISTRIBUTION | | | |
| SANTA FE | | | |
| FILE | | | |
| U.S.G.S. | | | |
| LAND OFFICE | | | |
| I RANSPORTER OIL | | | |
| TRAIST ORTER | | | |
| OPERATOR | | | |
| FRORATION OFFICE | | | |

| SANTA FE | l | CONSERVATION COMMISSION TOR ALLOWABLE | Form C-104 Supersedes Old C-104 and C-1 |
|----------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|
| FILE | | AND | Effective 1-1-65 |
| U.S.G.S. | AUTHORIZATION TO T | RANSPORT OIL AND NATURA | AL GAS |
| OIL | | | • |
| TRANSPORTER GAS | | | |
| OPERATOR | REC | EIVED | |
| Operator Operator | 1/2 | N- 3 1972 | |
| Bettis, Boyle & | | | |
| Address | | SERVATION COMM. | |
| Box 1168, Graham Reason(s) for filing (Check proper be | | Other (Please explain) | |
| New Well | Change in Transporter of: | Office (Freuse explaint) | |
| Recompletion | Oil Dry | Gas | |
| Change in Ownership X | Casinghead Gas Con | densate Effective No | ovember 1, 1971 |
| If change of ownership give name and address of previous owner | Shell Oil Company, Bo | x 1509, Midland, Texas | 79701 |
| . DESCRIPTION OF WELL AND | D LEASE Well No. Pool | Name, Including Formation | Kind of Lease State |
| State GRB Com | 1 Gr | ama Ridge (Morrow Gas) | State, Federal or Fee E-9659 |
| Location | south | 660 | West |
| Unit Letter L ; 198 | Feet From The | Line andFeet F | From The |
| Line of Section 34 , T | ownship 21-S Range | 34-Е , ммрм, | Lea County |
| . DESIGNATION OF TRANSPO | RTER OF OIL AND NATURAL | | approved copy of this form is to be sent) |
| Famariss Oil & Ref: | _ | Box 980, Hobbs, Ne | w Mexico 88240 |
| Name of Authorized Transporter of C | | | approved copy of this form is to be sent) |
| Phillips Petroleum | Unit Sec. Twp. Rge. | Phillips Bldg., Od Is gas actually connected? | essa, Texas 79760 |
| If well produces oil or liquids, give location of tanks. | L 34 21-S 34- | | March 17, 1966 |
| If this production is commingled v | with that from any other lease or po | ol, give commingling order number | : |
| . COMPLETION DATA | Oil Well Gas Well | New Well Workover Deepe | en Plug Back Same Res'v. Diff. Res'v |
| Designate Type of Complete | tion – (X) | | 1 1 |
| Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B.T.D. |
| Pool | Name of Producing Formation | Top Oil/Gas Pay | Tubing Depth |
| | | | |
| Perforations | | | Depth Casing Shoe |
| | TUBING, CASING, A | AND CEMENTING RECORD | |
| HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT |
| | | | |
| | | | |
| | | | |
| . TEST DATA AND REQUEST | | e after recovery of total volume of loa depth or be for full 24 hours) | d oil and must be equal to or exceed top allow |
| OIL WELL Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow, pump, | gas lift, etc.) |
| | | | |
| Length of Test | Tubing Pressure | Casing Pressure | Choke Size |
| Actual Prod. During Test | Oil-Bbls. | Water - Bbls. | Gas - MCF |
| | | | |
| CAC WELL | | | |
| GAS WELL Actual Prod. Test-MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| | | | |
| Testing Method (pitot, back pr.) | Tubing Pressure | Casing Pressure | Choke Size |
| . CERTIFICATE OF COMPLIA | NCE | OIL CONSE | RVATION COMMISSION |
| | | | CC 9-7 1971 |
| | d regulations of the Oil Conservation with and that the information give | | , 19 |
| | he best of my knowledge and belie | pelief. BY THE YOUR . | |
| | | TITYE | IVISOR DISTRICT I |
| Mashott. | | This form is to be file | d in compliance with RULE 1104. |
| / UMILLUL | H. M. Bettis | If this is a request for | allowable for a newly drilled or deepened |
| \$ \$ - 10 m | gnature) | | ompanied by a tabulation of the deviation accordance with RULE 111. |
| Co-owner | Title) | All sections of this for able on new and recomplete | m must be filled out completely for allowed wells. |
| December 2 | | Fill out Sections I, II | , III, and VI only for changes of owner |
| | Date) | | sporter, or other such change of condition |
| | | | |

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| | 1 | | Form C-103 Supersedes Old |
| DISTRIBUTION | | | C-102 and C-103 |
| SANTA FE | 1 | ONSERVATION COMMISSION | Effective 1-1-65 |
| FILE | reu | | |
| U.S.G.S. | | , | 5a. Indicate Type of Lease |
| LANDOFFICE | | | State X Fee. |
| OPERATOR LL | | | 5. State Oil & Gas Lease No. |
| ✓ # | • | • | E-9659 |
| SLINDS | NOTICES AND DEPORTS | ON WELLS | |
| (DO NOT USE THIS FORM FOR PRO | RY NOTICES AND REPORTS PROSALS TO DRILL OR TO DEEPEN OR PL TION FOR PERMIT (FORM C-101) FOR | UN WELLS | |
| 1. | TON FOR PERMIT (FORM C-101) FOR | SUCH PROPOSALS.) | 7. Unit Agreement Name |
| OIL GAS WELL T | | | |
| 2. Name of Operator | OTHER- | | 8. Form or Lease Name |
| - | 4 | | |
| Shell Oil Company | (Western Division) | | State GRB Com. |
| 3. Address of Operator | | | 9. Well No. |
| Post Office Box 1 | . <u>509, Midland, Texas 79</u> | 9701 | 11 |
| 4. Location of Well | | | 10. Field and Pool, or Wildcat |
| UNIT LETTER | 980 FEET FROM THE SOUT | th LINE AND 660 FEET FROM | Grama Ridge (Morrow Ga |
| | | THE AND | inninninnin in in in in in in in in in i |
| West | on 34 Township 2 | I_S 34_E | |
| THE WEST LINE, SECTION | JN TOWNSHIP | L-5 RANGE 34-E NMPM | |
| mmmmmm | 15. Elevation (Show when | ther DF, RT, GR, etc.) | 12. County |
| | 11111 | | |
| Čirilininini | | 3651' DF | Lea |
| Check | Appropriate Box To Indicat | e Nature of Notice, Report or Ot | her Data |
| NOTICE OF IN | TENTION TO: | SUBSEQUEN | T REPORT OF: |
| | | are t | |
| PERFORM REMEDIAL WORK X | PLUG AND ABANDON | REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON | • | COMMENCE DRILLING OPNS. | PLUG AND ABANDONMENT |
| PULL OR ALTER CASING | 5HANGE BLANG | CASING TEST AND CEMENT JOB | PEUG ARD ABARDORMEN! |
| POLE OR ALTER CASING | CHANGE PLANS | | L |
| | r | OTHER | |
| OTHER | | | |
| 17. Describe Proposed or Completed Or | perations (Clearly state all pertinent | details, and give pertinent dates, including | estimated date of starting any proposed |
| work) SEE RULE 1 103. | | | |
| | | | |
| 1. RUPU. | | | |
| | | | |
| Perforate wit | h one Jet Shot (Cerami | ic) at 13,050', 13,054', 1 | 3,064', |
| 13,071', 13,0 | | | |
| ,, | ,, | | |
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| | | | |
| | | | |
| 18. I hereby certify that the information | above is true and complete to the he | est of my knowledge and helief | |
| a more of collection and marination | was complete to the Dr | my minorately with Deliters | |
| | - | | |
| - 1/L | | | |
| SIGNED Metamisin | | Staff Exploitation Enginee | r DATE February 7, 1968 |
| SIGNED Mytarusin | | Staff Exploitation Enginee | r DATE February 7, 1968 |
| SIGNED Mittarrisin | N.W. Harrison | | r DATE February 7, 1968 |
| APPROVED BY | N.W. Harrison | Staff Exploitation Engineer | |
| APPROVED BY | N.W. Harrisontle S | | r DATE February 7, 1968 |
| APPROVED BY CONDITIONS OF APPROVAL, IP ANY | N.W. Harrisontle S | | |

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| FILE | | | | |
| U.S.G.S. | | | | |
| LAND OFFICE | | | | |
| TRANSPORTER | OIL | | | |
| TRANSPORTER | GAS | | | |
| OPERATOR | | | | |
| PRORATION OF | | | | |

| | SANTA FE | | ONSERVATION COMMISSION FOR ALLEDWABLE | Form C-104 Supersedes Old C-104 and C-110 Effective 1-1-65 |
|-----|------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|
| | U.S.G.S. | AUTHORIZATION TO TRA | AND | |
| | LAND OFFICE | AUG Z | NSPORT OHIMAND NATURAL G | AS 0 22 31 |
| | TRANSPORTER OIL | | | AS UZZ AN ST |
| | GAS OPERATOR | | | 37 |
| | PRORATION OFFICE | | | |
| 1. | Operator Shell Oil Company (Wes | stern Division) | | |
| | Address | | | |
| | P. O. Box 1509, Midlan Reason(s) for filing (Check proper box) | | Other (Please explain) | |
| | New Well | Change in Transporter of: | From: The Permian | Corporation |
| | Recompletion | Oil Dry Ga | 1 3 1 | & Refining Co., Inc. |
| | Change in Ownership | Casinghead Gas Conden | Effective Septembe | er 1, 1967 |
| | If change of ownership give name | | | |
| | and address of previous owner | | | |
| II. | DESCRIPTION OF WELL AND I | | | |
| | Lease Name | Well No. Pool Name, Including Fo | A Charles Barbaran | _ |
| | State GRB Com Location | 1 Grama Ridge (1 | MOTTOW Gas) | or Fee State E-9659 |
| | Unit Letter <u>I.</u> ; 1980 | Feet From The South Lin | e and660 Feet From T | he West |
| | | | | |
| | Line of Section 34 Tow | mship 21-S Range | 34-E , NMPM, | Lea County |
| Ш. | DESIGNATION OF TRANSPORT | TER OF OIL AND NATURAL GA | as | |
| | Name of Authorized Transporter of Oil | | Address (Give address to which approve | ed copy of this form is to be sent) |
| | Famariss 0il & Refinir 'Name of Authorized Transporter of Cas | inghead Gas or Dry Gas y | P. O. Box 980, Hobbs, No Address (Give address to which approv | ed copy of this form is to be sent |
| | Phillips Petroleum Con | 21 | Room B-2. Phillips Bldg | |
| | If well produces oil or liquids, | Unit Sec. Twp. Rge. | Is gas actually connected? When | |
| | give location of tanks. | L 34 21-S 34-E | Yes | March 17, 1966 |
| | If this production is commingled wit | h that from any other lease or pool, | give commingling order number: | |
| 17. | COMPLETION DATA | Oil Well Gas Well | New Well Workover Deepen | Plug Back Same Res'v. Diff, Res'v. |
| | Designate Type of Completio | n – (X) | | |
| | Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B.T.D. |
| | Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | Top Oil/Gas Pay | Tubing Depth |
| | | | | |
| | Perforations | | | Depth Casing Shoe |
| | | TURING CASING AND | D CEMENTING RECORD | |
| | HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT |
| | | | | |
| | | | | |
| | | | | |
| v. | TEST DATA AND REQUEST FO | OR ALLOWABLE (Test must be a | fter recovery of total volume of load oil a | and must be equal to or exceed top allow- |
| | OIL WELL Date First New Oil Run To Tanks | able for this de | epth or be for full 24 hours) Producing Method (Flow, pump, gas life | Earl MAIN OF HOR |
| | Date First New Oil Hun To Tanks | Date of Test- | Freducting Married (1. 10m, bamb, 8m. 19) | fettatice as |
| | Length of Test | Tubing Pressure | Casing Pressure | Choke Size |
| | | | | "67 SEP 7 AH 9 |
| | Actual Prod. During Test | Oil-Bble. | Water - Bbls. | Gds-MCF |
| | | | | · · · · · · · · · · · · · · · · · · · |
| | GAS WELL | | | |
| | Actual Prod. Test-MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| | Testing Method (pitot, back pr.) | Tubing Pressure (Shut-in) | Casing Pressure (Shut-in) | Choke Size |
| | | | | |
| VI. | CERTIFICATE OF COMPLIANCE | CE | OIL CONSERVA | TION COMMISSION |
| | I hereby certify that the rules and r | regulations of the Oil Conservation | APPROVED |) 10h, |
| | Commission have been complied wabove is true and complete to the | with and that the information given | | |
| | above is true and complete to the | best of my knowledge and belief. | | |
| | |) | TITLE | |
| | Jul 1. | AA. 4 = 12 12 = | This form is to be filed in o | |
| | (Sight | sture) K.W. Lagrone | well this form must be accompan | able for a newly drilled or deepened nied by a tabulation of the deviation |
| | Division Production | on Superintendent | tests taken on the well in accordance | at he filled out completely for allow- |
| | (Tie | ile) | able on new and recompleted we | 118. |
| | August 28, 19 | 967 | Fill out only Sections I, II, well name or number, or transport | , III, and VI for changes of owner, en or other such change of condition. |
| | ,,,,, | | Separate Forms C-104 must | be filed for each pool in multiply |
| | | | completed wells. | |

| NO. OF COPIES RECEIVED | | | | | |
|------------------------|-------------|--|--|--|--|
| DISTRIBUTIO | | | | | |
| SANTA FE | | | | | |
| FILE | | | | | |
| U.S.G.S. | | | | | |
| LAND OFFICE | LAND OFFICE | | | | |
| IRANSPORTER | OIL | | | | |
| TARROT OTT EX | GAS | | | | |
| OPERATOR | | | | | |
| PRORATION OF | | | | | |

NEW MEXICO OIL CONSERVATION COMMISSION REQUEST FOR ALLOWABLE

 $\bar{\omega}$

Form C-104
Supersedes Old C-104 and C-116

| | FILE | | | | | ••• | | ANDODO | > 0 11 71 E | | | Effective 1-1 | 1-65 |
|------|---------------------------------------------|---------|-------------|--------------|--------------|---------------|-----------------------------------------|----------------------------------------------------|--------------------------|---------------------------------------|---------------------------------------|------------------------|---------------------|
| | U.S.G.S. | | | All | THORI | ZATION | I TO TRA | ANDBBB NSPORT | OU AND N | Drtug. | CAS | | |
| | LAND OFFICE | | | | | | \ 10 1\\r | いい ひにし、 ビーニ 27 | SE AND I | 1A I UNAL | GAS | | |
| | TRANSPORTER | OIL | | | | | | LFB 71 | ± 5 29 | AH '67 | | | |
| | | GAS | | | | | | | 19 | •, | | | |
| | OPERATOR | | | | | | | - | Js. ; | | | | |
| 1. | PRORATION OFFI | CE | | | | | | <u></u> | | | | | |
| | Operator | | | . | | | | | | | | | |
| | Shell Oil | L Con | npany, | (Weste | ern Di | Vision | 1) | · | | | | | |
| | Address | 1500 | | 1. 1 ~ | | 70701 | | | | | | | |
| | P.O. Box | | | | exas | 79/01 | | | | | | | |
| | Reason(s) for filing (C | .heck p | proper bo | | | | | L_ | Other (Please TOM: Mo | explain) Wood Co | rnorat | ion | |
| | New Well | ╡ | | | ige in Tr | onsporter | | _~ | | | - | ron poration | |
| | Recompletion Change in Ownership | ╡ | | Oil | inghead C | , <u></u> . H | Dry Go Conder | ~ | | | • | 1, 1967 | |
| | Change in Ownerampt | | <u> </u> | Cds | ingneda C | , L | Conde | radie [] | | | | -, 1707 | |
| | If change of ownersh | | | | | | | | | | | | |
| | and address of previ | ous ow | ner | = | | | | | | | | | |
| п | DESCRIPTION OF | WET | T AND | TEACE | | | | | | | | | |
| | Lease Name | | L AND | Well | No. Po | ol Name, | Including F | ormation | | Kind of Le | 15e | | Lease No. |
| | State GRB Co | m | | 1 | . G | rama I | Ridge (1 | Morrow G | as) | State, Fede | eral or Fee | State | E-9659 |
| | Location | | | | | | | ***************************** | | · · · · · · · · · · · · · · · · · · · | | | 4 |
| | Unit Letter L | | , 198 | 0 Fee | t From T | he sout | th Lin | e and | 660 | Feet From | n The | west | |
| | | | . ′ | | | | | | • | | | | |
| | Line of Section | 34 | Т | wnship | 21S | | Range 34 | 4E | , NMPM | , Lea | | | County |
| | | | | | • | | | • | | | | • | |
| III. | DESIGNATION OF | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| | Name of Authorized T | - | | | or Conde | ensate 🔀 | S D | 1 | | | | | is to be sent) |
| | The Permian (| | | | | | | | | | | as 7970 | |
| | Name of Authorized T | | | | as 🗌 | or Dry C | as X | ! | | | | | is to be sent) |
| | Phillips Petr | oleu | m Con | | т | | | | | | | , Odessa | , Texas 797 |
| | If well produces oil or | | ls, | Unit | Sec. | Twp. | Rge. | | ally connecte | ed? ,\ | Vhen | | 066 |
| | give location of tanks | ·. | | L | 34 | 21s | 34E | Ye s | | <u></u> | Mar | ch 17, 1 | .966 |
| | If this production is | | ingled w | ith that fro | m any o | ther leas | se or pool, | give commi | ngling order | r number: | | | |
| IV. | COMPLETION DA | TA | | | 1 Oil W | Vell | Gas Well | New Well | Workover | Deepen | Plug B | ack Same I | Res'v. Diff. Res'v. |
| | Designate Type | of C | ompleti | on - (X) | 1 | 1 | ddb | 1 | 1 | Joapen | 1 | , , | 1 |
| | Date Spudded | | | Date Cor | npl. Read | ly to Prod | l. | Total Depti | <u> </u> | | P.B.T. | .D. | |
| | | | | | • | • | | 1 | | | | | |
| | Elevations (DF, RKB, | RT, G | R, etc.) | Name of | Producin | g Formati | lon | Top Oil/Go | s Pay | | Tubing | Depth | |
| | | | | | | | | | | | | | |
| | Perforations | | | | | | | | | | Depth | Casing Shoe | |
| | | | | | | | | | | | | | |
| | | | | | TUB | ING, CA | SING, AN | CEMENT | NG RECOR | D | | | |
| | HOLES | IZE | | CA | SING & | TUBING | SIZE | | DEPTH SE | ET | | SACKS C | EMENT |
| | | | | | | | | | | | | | |
| | | | | _ | | | | | | | | | |
| | | | | | | | ·········· | ļ | | | | ····· | |
| | | | | | | | | | | | | | |
| V. | TEST DATA AND | REQ | UEST I | FOR ALL | OWABL | E (Tes | st must be a a for this de | fter recovery pth or be for | of total volu | me of load o | il and must | be equal to d | or exceed top allow |
| | OIL WELL Date First New Oil R | un To 1 | Tanks | Date of | rest | | - , - , - , - , - , - , - , - , - , - , | <u> </u> | Method (Flou | | lift, etc.) | | |
| | 22,0 , 112, 1,0 011 | • • | • | | | | | | • | | | | |
| | Length of Test | | | Tubing F | ressure | | | Casing Pre | asure | | Choke | Size | ····· |
| | | | | 1 | | | | | | | | | |
| | Actual Prod. During T | est | | Otl-Bble | 3. | | · · · · · · · · · · · · · · · · · · · | Water - Bbls | ь. | | Gas-N | ICF | |
| | | | | | | | | | | | | | |
| | ' | | | | | | | | | | • | | |
| | GAS WELL | | | | | | | | | | | | |
| | Actual Prod. Test-M | CF/D | | Length o | f Test | | | Bbls. Cond | lensate/MMC | F | Gravit | y of Condense | ate |
| | | | | | | | | <u> </u> | 74 | | _ | | |
| | Testing Method (pitol | , back | pr.) | Tubing F | ,tessure (| Shut-is | •) | Casing Pre | ssure (Shut | -1n) | Choke | Size | |
| | <u></u> | | | | | | | | | | | | : . |
| VI. | CERTIFICATE O | F COM | MPLIAN | ICE | | | | | OIL (| CONSER | ATION | COMMISSI | ION |
| | | | | | | | | ABBEC | V | (11. | Ething in the |) I U (₀) | 16 |
| | I hereby certify that Commission have be | the ru | iles and | regulation | s of the | Oil Cor | servation | APPRO | y = 0 | | | The Royal Control | _, । # ⊘ |
| | above is true and | comple | te to th | e best of | my know | wledge a | nd belief. | BÝ | · | | | * 4''s * 775' | No. |
| | | | | | | | | | a to | | | | |
| | | | Λ | | | | | TITLE. | | | | | |
| | XU | 11 | / | . T7 T* | T | | | 11 | | | | nce with Ru | |
| | | I | 40 | ex. W | . <u>Lag</u> | rone | | If the | nis is a requ | uest for all | owable for | a newly dr | illed or deepened |
| | D211 | 7 | y (Sign | natwe) | md - + - | | | tests tal | ken on the | well in accom | cordance A | with RULE | n of the deviation |
| | Division | Pro | auc tí | on Supe | rinte | naent | | IL | | | | | pletely for allow- |

(Title)

(Date)

February 22, 1967

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition. well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

Form C-102 Supersedes C-128 Effective 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLATOC MOSBS OFFICE O. C. C.

| | | All distance | All distances must be from the outer boundaries of the Section. | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------|---------------------------------------|---------------------------------------|------------------------|-------------------------------------------------------------|--|--|--|
| Shell Oi | 1 Company-Wes | stern Div | rision Lea | GRB GRB | altell 40" | M°660 o | Well No. | | | |
| Unit Letter L | Section 34 | Township 2 | :1S | Range 34E | County | Lea | | | | |
| Actual Footage Loc | ation of Well: | - | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| 1980 | feet from the | south | line and | 660 | feet from the | west | line | | | |
| Ground Level Elev: Not availab | Producing For Le Morro | mation v-Penn. | Poo | rama Ridge | Morrow Ga | | edicated Acreage: 640 Acres | | | |
| 1. Outline th | 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). | | | | | | | | | | |
| | n one lease of d ommunitization, u | | • | | ell, have the | interests of a | ll owners been consoli- | | | |
| X Yes | ☐ No If an | ıswer is "y | es," type of co | nsolidation 🖳 | oint Ventu | re-Working | Interest Unit | | | |
| If answer i | | | | | GULI S 3 | mare 10. | 1978 1497 Ed. (Use reverse side of | | | |
| this form i | necessary.) | | <u>-</u> | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | _ | | | | | = | nitization, unitization, pproved by the Commis- | | | |
| sion. | | - | · | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | | En Paris Control Control | | | | | CERTIFICATION | | | |
| | i | | | İ | | I hereby cen | tify that the information con- | | | |
| | ļ | | | 1 | | tained herei | n is true and complete to the | | | |
| | | Shell State | (WI) (1/8 Royalı | (v: | | best of my k | nowledge and belief. | | | |
| | + | | | , 1 | | None None | J. D. Dure | | | |
| | | | | i | | Staff Expl Position | <u>loitation Engineer</u> | | | |
| | | | | l I | | Shell Oil | Company | | | |
| | i | | | | | March 29, | 1966 | | | |
| | i | | | į | | Date | | | | |
| <u> </u> | | | . | | | | | | | |
| | į | | | 1 | l | 1 | rtify that the well location | | | |
| -6600 | 1 | | | | i | 1 | s plat was plotted from field rual surveys made by me or | | | |
| 1 | i | Gulf | (WI) | | | 1 . | pervision, and that the same correct to the best of my | | | |
| 0861 | į | State | (1/8 Royali | -y/ | | knowledge ar | • • | | | |
| | - + - | | | - | | | | | | |
| | i | | | 1 | | Date Surveyed | | | | |
| | i | | | | | Registered Pro | fessional Engineer | | | |
| | | | | 1 } | | | -, | | | |
| | | | | | | Certificate No. | | | | |
| | 1 1 1 | 1 1 | l | 1 -1 | | ! | | | | |

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| | NO. OF COPIES RECEIVED | | • | |
| | DISTRIBUTION | NEW MEXICO OIL C | ONSERVATION COMMISSION | Form C-104 |
| | SANTA FE | | Supersedes Old C-104 and C-11 | |
| | FILE | REQUEST | Effective 1-1-65 | |
| | U.S.G.S. | AUTHORIZATION TO TRA | NSPORT-OIL AND NATURAL G | AS |
| | LAND OFFICE | The action of the | INSPORTZGIL AND NATURAL G | |
| | IRANSPORTER OIL | | | • |
| | GAS | APR 4 M 8 05 | | ~ M ₃ |
| | OPERATOR | | The same of growing (5) | .a . |
| ı. | PRORATION OFFICE | | | |
| | Operator | | | |
| | Shell Oil Company (| Western Division) | | |
| | Address | | 16 | |
| | P.O. Box 1509, Midla | and Texas 79701 | | |
| | Reason(s) for filing (Check proper box |) | Other (Please explain) | |
| | New Well X | Change in Transporter of: | | |
| | Recompletion | Oil Dry Go | rs | |
| | Change in Owner CHANGE | Casinghead Gas Conder | ≒ 1 | |
| | CLEATION | | | |
| | If change of owners dive name | | | |
| | and address of previous owner. | ••• | | |
| | | | a will have to be | |
| 11. | DESCRIPTION OF WELL AND | KJEJ: EQES | me, Including Formation | Kind of Lease |
| | | / | \mathcal{U} | |
| | GRB State Com | 1 (Grama | a Ridge-Morrow Gas | State, Federal or Fee State |
| | Location | | • | |
| | Unit Letter L ; 1980 | DFeet From The <u>south</u> Lin | e and <u>660</u> Feet From T | he west |
| | | _ | | |
| | Line of Section 34 , To | wnship 21S Range | 34E , NMPM, Lea | County |
| | | | | |
| III. | DESIGNATION OF TRANSPOR' | TER OF OIL AND NATURAL GA | AS | |
| | Name of Authorized Transporter of Oil | or Condensate | Address (Give address to which approx | ed copy of this form is to be sent) |
| | McWood Corporation | (Trucks) | 2003 Wilco Building M | idland Tayae 70701 |
| | Name of Authorized Transporter of Car | | 2003 Wilco Building, M. Address (Give address to which approx | ed copy of this form is to be sent) |
| | Phillips Petroleum | Company | Rm. B-2, Phillips Buil | |
| | | Unit Sec. Twp. Rge. | Is gas actually connected? Whe | |
| | If well produces oil or liquids, give location of tanks. | | | |
| | give location of tanks. | L 34 21S 34E | Yes | March 17, 1966 |
| | | th that from any other lease or pool, | give commingling order number: | |
| IV. | COMPLETION DATA | Oil Well Gas Well | IN-WALL IN- | |
| | | | New Well Workover Deepen | Plug Back Same Res'v. Diff. Res'v. |
| | Designate Type of Completiv | on — (X) | 1 1 | , , |
| | Designate Type of Completic | | X | |
| | Designate Type of Completic | Date Compl. Ready to Prod. | X Total Depth | P.B.T.D. |
| | Date Spudded | Date Compl. Ready to Prod. | Total Depth | |
| | | | <u> </u> | P.B.T.D. 13,194 Tubing Depth |
| | Date Spudded October 27, 1965 Pool | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation | Total Depth 14,603' Top ON/Gas Pay | 13,1941 Tubing Depth |
| | Date Spudded October 27, 1965 Pool | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation | Total Depth 14,603' Top ON/Gas Pay | 13,1941 Tubing Depth |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921, 12,922 | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 | Total Depth 14,603' Top CH/Gas Pay 13,921' 928', 12,930', 12,932', | 13,194* Tubing Depth 12,788* |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921, 12,922 | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 | 14,603' Top Old/Gas Pay 13,921' ,928', 12,930', 12,932', ,056' | 13,1941 Tubing Depth |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND | Total Depth 14,603' Top ON/Gas Pay 13,921' ,928', 12,930', 12,932', 056' CEMENTING RECORD | 13, 194 Tubing Depth 12, 788 Tepth Casing Shoe 11,897 |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE | 14,603' Top QU/Gas Pay 13,921' ,928', 12,930', 12,932', 056' CEMENTING RECORD DEPTH SET | 13,194¹ Tubing Depth 12,788¹ Tepth Casing Shoe 11,897¹ SACKS CEMENT |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE 26" | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" | 14,603' Top QW/Gas Pay 13,921' ,928', 12,930', 12,932', ,056' CEMENTING RECORD DEPTH SET 362' | 13,194 Tubing Depth 12,788 Tepth Casing Shoe 11,897 SACKS CEMENT 500 |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921, 12,922 12,934, 13,020 HOLE SIZE 26" 17 1/2" | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" 13 3/8" | 14,603' Top QH/Gas Pay 13,921' ,928', 12,930', 12,932', 056' CEMENTING RECORD DEPTH SET 362' 5726' | 13,194¹ Tubing Depth 12,788¹ Tepth Casing Shoe 11,897¹ SACKS CEMENT |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE 26" 17 1/2" 12 1/4" | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" 13 3/8" 9 5/8" | 14,603' Top QW/Gas Pay 13,921' ,928', 12,930', 12,932', ,056' CEMENTING RECORD DEPTH SET 362' | 13,194* Tubing Depth 12,788* Pepth Casing Shoe 11,897* SACKS CEMENT 500 |
| | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921, 12,922 12,934, 13,020 HOLE SIZE 26" 17 1/2" | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" 13 3/8" | 14,603' Top QH/Gas Pay 13,921' ,928', 12,930', 12,932', 056' CEMENTING RECORD DEPTH SET 362' 5726' | 13,1941 Tubing Depth 12,7881 Pepth Casing Shoe 11,8971 SACKS CEMENT 500 900 |
| v. | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE 26" 17 1/2" 12 1/4" 8 5/8" | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" 13 3/8" 9 5/8" 7" 1 iner | Total Depth 14,603' Top \(\frac{\pi}{2\pi} \) / Gas Pay 13,921' ,928', 12,930', 12,932', 056' CEMENTING RECORD DEPTH SET 362' 5726' 11897' 11,571'-14,082' | 13,194* Tubing Depth 12,788* Pepth Casing Shoe 11,897* SACKS CEMENT 500 900 1000 860 |
| v. | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE 26" 17 1/2" 12 1/4" 8 5/8" TEST DATA AND REQUEST FOOL. WELL | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" 13 3/8" 9 5/8" 7" 1 iner OR ALLOWABLE (Test must be a able for this de | 14,603' Top 21' 3,921' ,928', 12,930', 12,932', 056' CEMENTING RECORD DEPTH SET 362' 5726' 11897' 11,571'-14,082' fter recovery of total volume of load oil opth or be for full 24 hours) | 13,194* Tubing Depth 12,788* Pepth Casing Shoe 11,897* SACKS CEMENT 500 900 1000 860 Ind must be equal to or exceed top allows |
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| V. | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE 26" 17 1/2" 12 1/4" 8 5/8" TEST DATA AND REQUEST FOOL WELL Date First New Oil Run To Tanks Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test-MCF/D 31,753 | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" 13 3/8" 9 5/8" 7" liner OR ALLOWABLE2" (Test must be a able for this de Date of Test Tubing Pressure Oil-Bbls. | Total Depth 14,603' Top CM/Gas Pay 13,921' 928', 12,930', 12,932', 056' CEMENTING RECORD DEPTH SET 362' 5726' 11897' 11,571'-14,082' fter recovery of total volume of load oil of pth or be for full 24 hours) Producing Method (Flow, pump, gas lift Casing Pressure Water-Bbls. | Tubing Depth 12,788! Pepth Casing Shoe 11,897! SACKS CEMENT 500 900 1000 860 Ind must be equal to or exceed top allower, etc.) Choke Size Gravity of Condensate 48.8° APT |
| V. | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE 26" 17 1/2" 12 1/4" 8 5/8" TEST DATA AND REQUEST FOOL WELL Date First New Oil Run To Tanks Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test-MCF/D 31,753 Testing Method (pitot, back pr.) | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, ANI CASING & TUBING SIZE 20" 13 3/8" 9 5/8" 7" liner OR ALLOWABLE2" (Test must be a able for this de Date of Test Tubing Pressure Cil-Bbls. Length of Test 24 hours Tubing Pressure | Total Depth 14,603' Top QN/Gas Pay 13,921' ,928', 12,930', 12,932', ,056' CEMENTING RECORD DEPTH SET 362' 5726' 11897' 11,571'-14,082' fter recovery of strab volume of load oil opth or be for full 24 hours) Producing Method (Flow, pump, gas life Casing Pressure) Water-Bbls. Bbls. Condensate/MMCF | Tubing Depth 12,788! Pepth Casing Shoe 11,897! SACKS CEMENT 500 900 1000 860 Ind must be equal to or exceed top allower, etc.) Choke Size Gravity of Condensate 48,8° APT Choke Size |
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| VI. | Date Spudded October 27, 1965 Pool Grama Ridge-Morrow Perforations 12,921', 12,922 12,934', 13,020 HOLE SIZE 26" 17 1/2" 12 1/4" 8 5/8" TEST DATA AND REQUEST FOOL, WELL Date First New Oil Run To Tanks Length of Test Actual Prod. During Test GAS WELL Actual Prod. Test-MCF/D 31,753 Testing Method (pitot, back pr.) Back Pressure CERTIFICATE OF COMPLIANCE I hereby certify that the rules and a Commission have been complied to | Date Compl. Ready to Prod. March 18, 1966 Name of Producing Formation Morrow Gas 2', 12,924', 12,926', 12 0', 13,022', 13,051', 13 TUBING, CASING, AND CASING & TUBING SIZE 20" 13 3/8" 9 5/8" 7" 1 iner OR ALLOWABLE (Test must be a able for this de Date of Test Tubing Pressure Oil-Bbis. Length of Test 24 hours Tubing Pressure 5890-5609 CE regulations of the Oil Conservation with and that the information given | Total Depth 14,603' Top QU/Gas Pay 13,921' ,928', 12,930', 12,932', 056' CEMENTING RECORD DEPTH SET 362' 5726' 11897' 11,571'-14,082' fter recovery of total profilme of load oil or pith or be for full 24 hours) Producing Method (Flow, pump, gas life Casing Pressure Water-Bbis. Bbis. Condensate/MMCF 8 Casing Pressure OIL CONSERVA APPROVED APPROVED | Tubing Depth 12,788! Pepth Casing Shoe 11,897! SACKS CEMENT 500 900 1000 860 Ind must be equal to or exceed top allower, etc.) Choke Size Gravity of Condensate 48,8° APT Choke Size 12/64" TION COMMISSION |
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March 23, 1966

(Date)

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition. Separate Forms C-104 must be filed for each pool in multiply

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| 3. Address of Operator | Compan | y =(we | stern D | IVISION | <u> </u> | ···· | | , | | In Fie | L ld and | Pool, or Wildcat |
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| 15. Date Spudded | 16. Date T | .D. Reach | ed 17. Date | e Compl. (R | eady to P | (rod.) 18. | Elevati | ons (DF, RK | B. RT. G | Lea R. etc.) | 19. E | lev. Cashinghead |
| 10-27-65 | - 2-2 | 3-66 | ~ | 18-66 | | 1 : | 36 | 651' DF | | • | | _ |
| 20. Total Depth | 21 | , Plug Bo | ck T.D. | 22. | If Multiple | e Compl., Ho | w 2 | 3. Intervals | , Rotary | Tools | | Cable Tools |
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| 31. Perforation Record (| Internal siz | e and nun | heri | | <u> </u> | 32. | ACID. | SHOT, FRAC | TUDE | EMENT | SOUR | EZE ETC |
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| 12,921', 12,930', 13,051', | 12 032 | 12,9 | 24 , 12; | 0201 | 12,920 | DEPTH | INIE | VAL . | AMOU | AI AND | KIND | MATERIAL USED |
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| a transfer age groups | and the second second | · · · | JOFF Z | ر این این در در در وزایمید اور | (· · · | | | | | | | |
| 33. | · (-13 | | | | PRODU | JCTION | | | | | . | |
| Date First Production | , (-, 7 F | roduction | Method (Flo | wing, gas (l | | ng — Size an | d type | pump) | | Well St | atus (| Prod. or Shut-in) |
| 3-18-66 | ± | Flowi | | • • • • • • • • • • • • • • • • • • • • | | - ** | | | | Pro | duci | ing |
| Date of Test | Hours Test | ed | Choke Size | Prod'n. | For = | эн. Вы. Со | nd G | as - MCF | Water | - Bbl. | | CLE CHERNIE GLE |
| 3-21-66 | 24 | | 12/64" | Test Pe | T1001 | 60 | . | 31,753 | | _ | . | 142 MCF/bb1 |
| Flow Tubing Press. | Casing Pre | 85 UFe | Calculated 2 Hour Rate | 4- Sett – B | ы.Cond | | ICF | | - Bbl. | | | ravity - API (Corr.) |
| 5890-5609 | - | | | > | 60 | 31 | . 753 | | | 1 | | 48.8 ⁰ |
| 34. Disposition of Gas (| Sold, used fo | or fuel, ve | nted, etc.) | · · · · · | | | | | Test | Witness | d By | |
| Sold | | | <u>.</u> | | | | | | | A.L. | E1: | Lerd |
| 35. List of Attachments | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| Drill Ste | | | | · | | | <u> </u> | | | | | |
| 36. I hereby certify that | | ion show | on both side | es of this fo | rm is true | and complet | e to the | e best of my | knowledg | e and be | lief. | |
| Λ Λ | Λ | | | | | | | | | | | |
| SIGNED 4 XY | Vienen | J.D | Duren | T17 | Sta | ff Explo | i ta t | ion Eng | ineer | DATE | Мат | rch 23, 1966 |

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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Attachment for NMOCC Form C-105 Dated March 23, 1966

HOBBS OFFICE & G. Company

MAR 25 This LINS of the Survey of the County, New Mexico APR 4 AM 8 05

DST #1: 12,680'-12,937' (257' Morrow). Nitrogen valve at 10,487'. 2450' Nitrogen blanket pressured to 1535 psi surface pressure. Tool open 247 minutes, including 17 minutes pre-flow, thru 5/8" BC, 1" TC, 4 1/2" DP w/strong blow. Nitrogen to surface 4 minutes. Mud to surface 14 minutes. GTS 15 minutes. Flowed to pits 20 minutes. Turned thru separator and flowed at following rates: (Variable choke not operating properly).

| <u>F10</u> | ow Time | Flowing Surf | ace Pressure | | Rate |
|------------|---------|--------------|--------------|----|--------|
| 15 | minutes | 3000 | psi | | - |
| 30 | minutes | 5500 | | | _ |
| 45 | minutes | 5100 | - | | - |
| 55 | minutes | 5000 | - | | _ |
| 75 | minutes | 4700 | - | 11 | MMCFPD |
| 90 | minutes | 4500 | psi | 13 | MMCFPD |
| 110 | minutes | 4200 | psi | | _ |
| 125 | minutes | 4000 | - | 15 | MMCFPD |
| 130 | minutes | 4000 | • | | - |

Total liquid recovered while flowing 3.3 BC + 3 bbls BS&W.

Gas Gr. 0.592 w/no CO₂ or H₂S. Condensate Gr. 51.8° API.

Total pipe recovery 50' (0.51 bbls.) condensate. No water recovery.

Pit mud filtrate titration 1500 ppm Cl⁻. 100 minutes ISIBHP 7682 psi.

FBHP 5648-6784 psi. 208 minutes FSIBHP 7682 psi. HMP 8460-8341 psi.

BHT 177°F. Positive Test. (Cook)

DST #2: 14,475'-14,603' (128' Silurian Dolomite). 1000' Nitrogen blanket pressured to 1475 psi. Tool open 150 minutes, 5 minutes preflow, thru 5/8" BC, 1" TC, 3 1/2" & 4 1/2" DP with fair to medium blow increased to strong in 10 minutes & decreased to no blow in 45 minutes. NGTS. Recovered 670' (10 bbls.) slightly gas cut mud + 5000' (45 bbls.) salty sulfur water. 150 minutes ISIBHP 6162 psi. FBHP 2319-2270 psi. 150 minutes FSIBHP 6162 psi. HMP 7198-7198 psi. Positive Test. (Cook)

Texas.

2

OIL CONSERVATION COMMISSION OFFICE OCC

BOX 2045

MAR 21 All 7:58

HOBBS, NEW MEXICO

| | | DATE | March 17, 1966 |
|---------------|-------------------|-------------------------|-----------------------------------------|
| | · | Conservation Commission | * |
| e purchase of | gas from the Shel | Operator | CRB State Well No. 1 . Lease |
| I. | . 34-215-34E | , Gamma Ridge Morrow | . Phillips Petroleum Com |
| Well Unit | S.T.R. | Pool | Name of Purchaser |
| | | PHILLIP | S PETROLEUM COMPANY Purchaser |
| | | Xc.) | Representative R. C. Mason |
| | | Regional | Production Manager Title |

cc: To operator
Oil Conservation Commission - Santa Fe

| | , | | | |
|------|----------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------|-------------------------------------------|
| | NO. OF COPIES RECEIVED | | | |
| | DISTRIBUTION . | NEW MEXICO OIL O | ONSERVATION COMMISSION | Form C -1 04 |
| | SANTA FE | MAIN AREQUEST | FIORBAISLOWFABE (D. C. C. | Supersedes Old C-104 and C-11 |
| | FILE | OFFICE O | AND | Effective 1-1-65 |
| | U.S.G.S. | AUTHORIZATION TO TR | HANDENT CAL HEIDENA MERAL G | 245 |
| | LAND OFFICE | | Little And Con Taurana Day or o | 7A3 |
| | TRANSPORTER OIL GAS | | Nod | |
| | OPERATOR | | | |
| _ | | - Latter 1 14 3 3 3 4 3 4 | 1.500 | |
| I. | PRORATION OFFICE Operator | | | |
| | · · | pany (Western Division) | | |
| | P. O. Box 1509 | , Midland, Texas 79701 | | |
| | Reason(s) for filing (Check proper b | ox) | Other (Please explain) | |
| | New Well | Change in Transporter of: | To run CAOF pote | ential on well. |
| | Recompletion | Oil Dry Go | as ex | |
| | Change in Ownership | Casinghead Gas Conde | nsate 🔲 | |
| | | | | |
| | If change of ownership give name and address of previous owner | | | |
| II. | DESCRIPTION OF WELL ANI | | | T |
| | Lease Name | well No. Pool No | me, Including Formation | Kind of Lease |
| | GRB State | 1 Gran | na Ridge-Morrow Gas | State, Federal or Fee State |
| | Location | 190 F . F . F | ne and 660 Feet From 7 | |
| | | 780 Feet From The south Lin | | |
| | Line of Section 34 , T | ownship 218 Range | 34E , NMPM, Lea | County |
| III. | Name of Authorized Transporter of C | RTER OF OIL AND NATURAL GA | Address (Give address to which approx | ped copy of this form is to be sent) |
| | N. T I Commonstion | (There also) | 2002 Wiles Pud 1ding 1 | Widland Towns 70701 |
| | McWood Corporation Name of Authorized Transporter of C | Casinghead Gas or Dry Gas 👿 | 2003 Wilco Building. 1 Address (Give address to which appro- | ved copy of this form is to be sent) |
| | | | | |
| | Phillips Petroleum | Unit Sec. Twp. Rge. | Rm. B-2, Phillips Bui | |
| | If well produces oil or liquids, give location of tanks. | Unit Sec. Twp. Rge. L 34 215 34E | Yes | March 17, 1966 |
| *** | | with that from any other lease or pool, | give commingling order number: | |
| IV. | COMPLETION DATA | Oil Well Gas Well | New Well Workover Deepen | Plug Back Same Res'v. Diff. Res'v. |
| | Designate Type of Complete | tion - (X) | House Meri | July Date Same Hes V. Dir. Hes V. |
| | | <u> </u> | <u> </u> | <u> </u> |
| | Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B.T.D. |
| | | | | |
| | Pool | Name of Producing Formation | Top Oll/Gas Pay | Tubing Depth |
| | | | | |
| | Perforations | | | Depth Casing Shoe |
| | | | | |
| | | TUBING, CASING, AN | D CEMENTING RECORD | |
| | HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT |
| | 11022 0122 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| V. | TEST DATA AND REQUEST | FOR ALLOWABLE (Test must be a | after recovery of total volume of load oil | and must be equal to or exceed top allow- |
| • | OIL WELL | | epth or be for full 24 hours) | |
| | Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow, pump, gas li | (t, etc.) |
| | | | | |
| | Length of Test | Tubing Pressure | Casing Pressure | Choke Size |
| : | | | | |
| | Lateral Book States | O(I-Phis | Wester Phila | (Con -) 1/25 |
| | Actual Prod. During Test | Qil-Bbls. | Water - Bbls. | Gcs-MCF |
| | | | | |
| | | | | |
| | GAS WELL | | | |
| | Actual Prod. Test-MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| | | • | 1 | • |

VI. CERTIFICATE OF COMPLIANCE

Testing Method (pitot, back pr.)

I hereby certify that the rules and regulations of the Oil Conservation Commission have been compiled with and that the information given above is true and complete to the best of my knowledge and belief.

Tubing Pressure

| KW. Kagrone | K. | W. | Lagrone |
|-------------|----|----|---------|
| (Signature) | | | |

Division Production Superintendent

(Title)

March 7, 1966. (Date)

Choke Size

OIL CONSERVATION COMMISSION SUPERVISOR DISTRICT

Casing Pressure

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply

| 2 3 3 4 | | | | | | | | |
|------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------|--------------------------|--------------------------------|----------------------------------------------|--|
| NO. OF COPIES RECEIVED | | | | | Form C-103 Supersedes | | | |
| DISTRIBUTION | | | | • | C-102 and (| | | |
| SANTA FE | NEW MEXIC | CO OIL CONS | SERVATION C 0. C. C. | OMMISSION | Effective 1 | 1-65 | | |
| FILE | HOD | 99 011 7CE | 0.0.0. | MAIN OFFICE | 5a. Indicate Ty | ne of Lease | | |
| U.S.G.S. | Fra 1 | I | DH acc | | State X | Fee | | |
| LAND OFFICE | 150 | 15 l os | rin bb | FFD (D IV | | | <u>' </u> | |
| OPERATOR | | | | FEB 13 AM | E-9659 | sas Lease No. | | |
| SHADDA | NOTICES AND DE | -DODTC ON | WELLS | | iiiiiiiiiii | ammi | TTT | |
| DO NOT USE THIS FORM FOR PROPE USE "APPLICATION | NOTICES AND REDSALS TO DELLE OR TO DELLE OR FOR PERMIT - " (FORM | EPURIS UN EPEN OR PLUG (C-101) FOR SUC | WELLS BACK TO A DIFFE CH PROPOSALS.) | RENT RESERVOIR. | | | | |
| 1. OIL GAS | | | | | 7. Unit Agreeme | ent Name | | |
| WELL LA WELL | OTHER- | | | | - | | | |
| 2. Name of Operator | Tankana Diadai | > | | | 8. Farm or Lease Name | | | |
| Shell Oil Company (V | estern Division | on) | | | GRB State | | | |
| 3. Address of Operator Roy 1500 Midland | Toa 70701 | | | Strong Control Stronger | 1 - | | | |
| Box 1509, Midland, 7 | Texas 79701 | | | | 10 Field and F |) o o l o o WW l d = | | |
| 4. Location of Well | | | | | | 10. Field and Pool, or Wildcat | | |
| UNIT LETTER L | 980 FEET FROM THE | south | LINE AND | 660 FEET FRO | Falcon A | rea | | |
| | 2.4 | ^- | | 0.4 | | | //// | |
| THE West LINE, SECTION | 34 towns | _{5нір} 2 <u>1</u> | RANGE _ | 34 _{NMPN} | | | | |
| mmmmmmm | 15. Elevation | (Show whather | DE RT CR a | to 1 | 12. County | 11////// | ++++ | |
| | | | Dr, Kr, GK, e | <i>ic.</i>) | | | | |
| | opropriate Box To | | | | Lea | <u> </u> | 77777 | |
| other 17. Describe Proposed or Completed Oper work) SEE RULE 1703. | CHANGE P | | OTHER | AND CEMENT JOB | | AND ABANDONMES | | |
| Ran 2111' of 7" (32# Class B plus 0.2% HR February 9, 1966. A pressure drop. | -12. Top of 1 | iner at | 11,571'. | Plug down at 3 | 3:07 a.m. (6 | CST), | | |
| 10 Thereby actific that the information | ous is true and | to to the fire | 6 mm 1 | and hali-f | | | | |
| 18. I hereby certify that the information at | ove is true and complet | te to the best t | n my knowledge | and perier. | | | | |
| SIGNED R. J. Dauber 1 | R. J. Doubek | TITLE DIV | ision Mec | hanical Engine | er DATE Feb | ruary 11, | 1966 | |
| | | | ······································ | | | | | |
| <u></u> | , | مَيْةً أَنْ إِنْ الْمُعْلِينَ مُنْ الْمُعْلِينَ الْمُعْلِينَ الْمُعْلِينَ الْمُعْلِينَ الْمُعْلِينَ الْمُعْلِينَ | man ing | . * 7 | جيدو بمنو | | | |
| APPROVED BY | | TITLE | 7 110 | | DATE | and the second | | |

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| DISTRIBUTION | Supersedes Old C-102 and C-103 |
| SANTA FE NEW MEXICO OIL CONSERVATION COMMISSION FILE INAIN OFFICE GCC U.S.G.S. LAND OFFICE | Effective 1-1-65 |
| U.S.G.S. | 5a. Indicate Type of Lease |
| LAND OFFICE | State X Fee |
| OPERATOR FEB 11 AM 8 23 | 5. State Oil & Gas Lease No. |
| | E-9659 |
| SUNDRY NOTICES AND REPORTS ON WELLS | |
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FOR SUCH PROPOSALS.) | |
| 1. OIL GAS 🕎 | 7, Unit Agreement Name |
| WELL WELL OTHER- | - |
| 2. Name of Operator | 8. Farm or Lease Name |
| Shell Oil Company (Western Division) 3. Address of Operator | "GRB" State |
| | 9. Well No. |
| P. O. Box 1509, Midland, Texas 79701 | 1 10. Field and Pool, or Wildcat |
| 1 | Wildcat |
| UNIT LETTER L 1980 FEET FROM THE SOUTH LINE AND 660 FEET FRO | |
| THE WEST LINE, SECTION 34 TOWNSHIP 21S RANGE 34E NMPN | |
| THE WEST LINE, SECTION 37 TOWNSHIP 210 RANGE 340 NMPN | ·(1) |
| 15. Elevation (Show whether DF, RT, GR, etc.) | 12, County |
| All | Lea |
| Check Appropriate Box To Indicate Nature of Notice, Report or O | |
| | T REPORT OF: |
| 333324321 | THE OR FOR |
| PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON COMMENCE DRILLING OPNS. | PLUG AND ABANDONMENT |
| PULL OR ALTER CASING CHANGE PLANS X CASING TEST AND CEMENT JOB | |
| OTHER | |
| OTHER | |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including | a artimated data of etarting any proposed |
| work) SEE RULE 1103. | s estimated date of starting any proposed |
| II-11 has been desilled to a doubt of 12 9001 and the fellowing engine | , has been set. |
| Well has been drilled to a depth of 13,800' and the following casing | ; has been set: |
| 26" hole, 20", 94# casing cemented at 362' w/500 sx. | |
| 17 1/2" hole 13 3/8" 72% 68% 61% casing cemented at 5726' v | 7/900 sx. |
| 17 1/2" hole, 13 3/8", 72#, 68#, 61# casing cemented at 5726' v 12 1/4" hole, 9 5/8", 53.5# casing cemented at 11,897' w/800 sa | ξ |
| 12 1, 1 hozo, 5 5, 5 , 50,5 m cubing comended at any contract | • |
| We propose to test the Silurian-Devonian at a depth of 14,600'. | |
| Drill 8 5/8" hole, cement 7" liner, 32# & 26# at 14,100' w/750 sx. | Estimated top 11,700'. |
| Drill 6" hole, cement 4 1/2" liner, 9.5# & 11.6# at 14,600' w/100 sx | . Estimated top 14,000'. |
| | |
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| | |
| 18. I hereby certify that the information above is true and complete to the best of my knowledge and belief. | |
| $A \wedge A$ | |
| SIGNED J. D. Duren TITLE Staff Exploitation Engineer | er DATE February 4, 1966 |
| | |
| | |
| APPROVED BY TITLE | DATE |

CONDITIONS OF APPROVAL, IF ANY:

| NO. OF COPIES RECEIVED | la de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación de la deservación dela deservación de la deservación dela deservación de la deser | P. 6.1 | | | |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--|--|--|
| DISTRIBUTION | NEW MEXICO OIL CONSERVATION COMMISSION, Supersedes Old Effective 1-1-65 | | | | |
| SANTA FE | NEW MEYICO OU CONSERVATION COMMISSION | . G102 and C-103 | | | |
| FILE | THE WHEN CO OIL CONSERVATION COMPINSTION | H tee | | | |
| U.S.G.S. | 4 | 5 Indicate Type of Lease | | | |
| LAND OFFICE | | State K Fee | | | |
| OPERATOR | | 5, State Oil & Gas Lease No. | | | |
| | | E-9659 | | | |
| SUNDR | | | | | |
| 1. | | 7. Unit Agreement Name | | | |
| 2. Name of Operator | OTHER- | 8. Farm or Lease Name | | | |
| Shell Oil Company | GRB State | | | | |
| 3. Address of Operator | 9. Well No. | | | | |
| P. O. Box 1509, Mi | 1 | | | | |
| 4. Location of Well | 10. Field and Pool, on Wildon | | | | |
| UNIT LETTER | 1980 FEET FROM THE SOUTH LINE AND 660 FEET FROM | Falcon Area | | | |
| W0.0+ | 3/4 21 2/ | | | | |
| THE West LINE, SECTION | ON 34 TOWNSHIP 21 RANGE 34 NMPM | | | | |
| mmmmm | 15. Elevation (Show whether DF, RT, GR, etc.) | 12. County | | | |
| | 3651' DF | Lea | | | |
| 16. Check | Appropriate Box To Indicate Nature of Notice, Report or Ot | | | | |
| | | T REPORT OF: | | | |
| PERFORM REMEDIAL WORK | | | | | |
| — | PLUG AND ABANDON REMEDIAL WORK | ALTERING CASING | | | |
| TEMPORARILY ABANDON PULL OR ALTER CASING | CHANGE PLANS CASING TEST AND CEMENT JOB X | PLUG AND ABANDONMENT | | | |
| FOCE OF ACTOR CASING | OTHER | <u> </u> | | | |
| OTHER | | L_ | | | |
| | | | | | |
| 17. Describe Proposed or Completed Or work) SEE RULE 1603. | perations (Clearly state all pertinent details, and give pertinent dates, including | estimated date of starting any proposed | | | |
| Ran 11,885' of 9-5 | /8" (53-1/2#, N-80) casing and cemented at $11,89$ | 7' with 1000 sacks' | | | |
| Trinity Inferno Ne | at. Plug down at 12:55 A.M. (CST), December 23 | 3, 1965. After WOC | | | |
| 72 hours, tested w | ith 6000 psi for 30 minutes - no pressure drop. | | | | |
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| 18. I hereby certify that the information | above is true and complete to the best of my knowledge and belief. | · · · · · · · · · · · · · · · · · · · | | | |
| A . O . | | | | | |
| SIGNED K.J. & oulse | R. J. Doubek TITLE Division Mechanical Engr. | DATE January 3, 1966 | | | |
| | ingmeer District | JAN 6 196 6 | | | |
| | COSMICUL CISMAN I | JULIA DE P | | | |

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| DISTRIBUTION | HOBBS OFFICE G. G. G. | Supersedes Old |
| SANTA FE | | C-102 and C-103 Effective 1-1-65 |
| FILE | NEW MEXICO OIL CONSERVENION COMMISSION | * 1 |
| U.S.G.S. | | 5a. Indicate Type of Lease |
| LAND OFFICE | - Lag | State State Fee |
| OPERATOR | | 5. State Oil & Gas Lease No. |
| | | E-9659 |
| SUNDR | Y NOTICES AND REPORTS ON WELLS POSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. ION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.) | |
| OIL GAS WELL WELL | OTHER- | 7. Unit Agreement Name |
| 2. Name of Operator Shell Oil Company - | Western Division | 8. Form or Lease Name GRB State |
| 3. Address of Operator | | 9. Well No. |
| P. O. Box 1509 -Midlar | nd, Texas | 1 |
| 4. Location of Well | | 10. Field and Pool, or Wildean |
| UNIT LETTER L . 19 | 980 FEET FROM THE SOUTH LINE AND 660 FEET FRO | Falcon Area |
| | 2/ 21 2/ | |
| THE West LINE, SECTION | ON 34 TOWNSHIP 21 RANGE 34 NMPN | <i>• ((((((((((((((((((((((((((((((((((((</i> |
| | 15. Elevation (Show whether DF, RT, GR, etc.) | 12. County |
| | 3651' DF | Lea |
| Check A | Appropriate Box To Indicate Nature of Notice, Report or O | ther Data |
| NOTICE OF IN | | IT REPORT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON REMEDIAL WORK | |
| $\boldsymbol{\Xi}$ | PLUG AND ABANDON REMEDIAL WORK COMMENCE DRILLING OPNS. | ALTERING CASING |
| TEMPORARILY ABANDON PULL OR ALTER CASING | CHANGE PLANS CASING TEST AND CEMENT JOB X | PLUG AND ASANDONMENT |
| POLL ON ALIEN CASING | OTHER | |
| OTHER | OTHER | |
| | | |
| 17. Describe Proposed or Completed Op work) SEE RULE 1103. | erations (Clearly state all pertinent details, and give pertinent dates, includin | g estimated date of starting any proposed |
| | | • |
| Ran 5736' of 13 3/8" | (72 $\#$, 68 $\#$, 61 $\#$, N-80) casing, and cemented at 5 | 726' with 900 sx |
| Incor neat. Plug down | at 10:30 AM (CST), November 29, 1965. Ran te | mperature survey |
| and found top of cemer | nt at 3995'. After WOC 24 hours, tested with 2 | 000 psi for 30 |
| minutes - no pressure | | - |
| militates in process | | |
| | | |
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| 18. I hereby certify that the information | above is true and complete to the best of my knowledge and belief. | |
| 601 -1 | A | |
| SIGNED NO SMITH | R. J. Doubek TITLE Division Mechanical Engin | eer December 1, 1965 |
| | | מוש ביה : יייא בנו |
| , | | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |
| APPROVED BY | TITLE | DATE |
| CONDITIONS OF APPROVAL, IF ANY: | | |

| | | Li C | AN B | | |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|-------------------------------------------------|-----------------------|
| DISTRIBUTION | NEW MEXIC | BBS OFFICE O. C. C. | COWMISSION 22 | Form C+103 | -103 |
| U.S.G.S. LAND OFFICE OPERATOR | Nov | 18 11 25 AN '65 | | Sa. Indicate Typ State X 5. State Oil & G | Fee |
| SUNDR (DO NOT USE THIS FORM FOR PRO USE "APPLICATION OIL X GAS WELL X WELL 2. Name of Operator | Y NOTICES AND REPOSALS TO DRILL OR TO DE ON FOR PERMIT - " (FORM OTHER- | PORTS ON WELLS EPEN OR PLUG BACK TO A DIFF C-101) FOR SUCH PROPOSALS. | ERENT RESERVOIR. | 7. Unit Agreeme | nt Name |
| Shell Oil Company - Wes 3. Address of Operator Box 1509 - Midland, Tex | | | | GRB S | |
| 4. Location of Well | · · | south Line AND | 660 FEET | 10. Field and Parent Falco | ool, or Wildow |
| THE West LINE, SECTION | ((((((((((((((((((((| Show whether DF, RT, GR, | | 12. County | |
| Check A | appropriate Box To | O' DF (est.) Indicate Nature of N | | Lea Other Data ENT REPORT OF | : : |
| PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING | PLUG AND Change Pi | COMMENCE | PAND CEMENT JOB | | RING CASING |
| 17. Describe Proposed or Completed Operators (1998) SEE RULE 1993. | erations (Clearly state ali | l pertinent details, and give | pertinent dates, incli | uding estimated date of | starting any proposed |
| Spudded at 12:45 p.m Ran 347' of 20" (94# CaCl ₂ . Plug down at tested with 500 psi | H-40) casing a 7:15 a.m., Oct | nd cemented at 36 ober 29, 1965. | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 18. I hereby certify that the information | above is true and complet | e to the best of my knowleds | ge and belief. | | |
| SIGNED I. J. Doubel | R. J. Doubek | TITLE Division | Mechanical En | | ember 15, 1965 |
| APPROVED BY | | TITLE | | DATE | |

| • | | | | | | _ |
|-------------------------------------|-------------------------------------------------|---------------------------------|---------------------------|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A garage | | | | 2. | | . • |
| | | | • | r - | | |
| | | | • . | I | | |
| | NEW | MEXICO OIL CONSE | ERVATION COMMISSIO | N | Form C-101 | 65 |
| | | | · : | ≓ . | | |
| | 3 | 0 6 11 | O and Wa | | | |
| LAND OFFICE | | UCT b 11 | 30 M b) = | 2 | -5. State Oil | & Gas Lease No. |
| OPERATOR | | | 4 | | E. | -9659 |
| | | | | | IIIII | |
| | N FOR PERMIT TO | DRILL, DEEPEN, | OR PLUG BACK | | | |
| 1a. Type of Work | | | | | 7. Unit Agre | eement Name |
| DRILL X | | DEEPEN 🗌 | PLUG | BACK | 9 Form on I | ome Name |
| I | • | | SINGLE TO MU | TIPLE [| | |
| 2. Name of Operator | OTHER | | ZONE LA | ZONE L | 9. Well No. | |
| <u>-</u> | - Western Divis | sion | | | | 1 |
| 3. Address of Operator | | | · | | 10. Field on | nd Pool, or Wildcat |
| P. O. Box 1509, Mi | dland, Texas 79 | 9 7 04 | | | Wildo | at |
| 4. Location of Well | ER L LOS | ATED 1980 | FEET FROM THE SC | uth LINE | IIIII | |
| | | | | | | |
| AND OOU FERT FROM | THE West Lin | IE OF SEC. 34 | TWP. 21.5 REE. 34 | E NMPM | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | | | | | J | |
| HHAHHHHA | | | | HHH | dinnin | HHHHAnn |
| | | | | | | |
| | | 444444 | 19, Proposed Depth | 9A. Formatio | n //////////////////////////////////// | 20. Rotory or C.T. |
| | | | 13,800 | | | = |
| 21. Elevations (Show whether DF) | (,RT, etc.) 21A. Kind | & Status Plug. Bond | L | | | |
| | | - | _ | | 1 | _ |
| 23. | | | | | | |
| | F | PROPOSED CASING AN | D CEMENT PROGRAM | | | |
| SIZE OF HOLE | SIZE OF CASING | | | SACKS O | F CEMENT | EST. TOP |
| | | | | <u> </u> | 500 | Surface |
| | 13 3/8" | | | | | |
| | 9 5/8" | 43•5# & 4(# | | | | 2 |
| 0 3/0 | , 2 1/5, Tr | r. 20# | 13000 | · | 700 | TT200, |
| | | | | | | |
| | | | | | | |
| | | | | | • | |
| | | | | | | |
| We pr | opose to drill | to a total dep | th of 13.800' a | nd test | te. | |
| | | | | | • | |
| | • | • | | | | _ |
| We pl | an to run two d | rill stem test | s 11,925' to to | tal dept | he WHY | TID |
| | | | | A! | TO DAYS | INLESS |
| | | | | F CR | COM | MENCEDI |
| | | | | DRILL | ING | - Commission |
| | | | | | 10 100 | - Annie Marie
| | NEW MEXICO OIL CONSERVATION COMMISSION ANTAFRE | | | | | |
| IN ABOVE SPACE DESCRIBE PR | OPOSED PROGRAM: IF | PROPOSAL IS TO DEEPEN (| OR PLUG BACK, GIVE DATA O | | 1 | AND PROPOSED NEW PRODUC |
| | | | | | | |
| nereby certify that the information | on above is true and com | | | | | |
| Signed C. K. Calkey | C. R. Coffey | | | | Date Octob | er 5, 1965 |
| | | | | | | |
| (I his space for | • 1 | <u>-</u> . | | | | |
| | • | and the second of the second of | • | | • | المراكب المعالمة |
| APPROVED BY | | | 역의 ⁶ 한 - 발전 | | | |

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION ENTRY WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Operator Lease Shell Oil Company - Western Division GRB State Section Unit Letter Township County 215 34E Lea Actual Footage Location of Well: 1980 660 feet from the south feet from the west line and Ground Level Elev: **Producing Formation** Dedicated Acreage: 40 not available 320 Pennsylvanian Wildcat Acres 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 interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation Joint Venture-Working Interest Unit Unit Participation: Shell's Share 89.51% X Yes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the Shell (WI) best of my knowledge and belief. State (1/8 Rowalty) District Exploitation Engineer Company Shell Oil Company Date 5, 1965 October 1 I hereby certify that the well location shown on this plat was plotted from field ntes of actual surveys made by me or Gul∦ (WI) er my supervision, and that the same State (1/8 Royalty) true and correct to the best of my knowledge and belief. 660 1320 1650 1980 2810 1000 500

| COUNTY LEA FIELD | o Gramma Ride∈ | ST | ATE MM | |
|------------------------------------------------|----------------|----------------------------------------------|--------------|----------|
| OPR STELL CIL COMPANY | | | МА | Ρ |
| 1 GR3 State | | | | |
| Sec. 34, T-21-S, P- | 3445 | | 6-05 | RD |
| 1980' FSL, 660' FWI | . St Set. | | W . 2 | 1 |
| Spd 10-27-65 | | CLASS | E | L |
| Cmp 3-18-66 | FORMATION | DATUM | FORMATION | DATUM |
| CSG & SX - TUBING | | | | |
| 20" 362' 13 3/8" 5726' 900 9 5/8" 11895' | | | | |
| 7" 1mr 11571-14082' 860 | | | | |
| LOGS EL GR RA IND HC A | | <u> </u> | | <u> </u> |
| | ID 14603 | , PBD 131 | 94! | |

IP Morrow Perfs 12921-13056' CAOF 31,753 MCFGPD. Pot. Based on 4-point test; Gravity (Chad.) 48.8, SITP 6037#.

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CONT. McFarland Drlg. Co

PROP DEPTH 13.8001

TYPE

DATE

ILLEGIBLE

F.R. 10-1-65

PD 13,800' - Pennsylvanian

Contractor - Mosariand Drig. Co.

11-1-65 TD 1357', fshg.

11-8-65 Drig. 3905'.

11-15-65 TD 4878', fshg.

11-22-65 Drig. 5014'.

11-29-65 ID 5726', rng 13 3/8" casing.

12-6-65 Drlg. 7968'.

12-13-65 Drlg. 9819'.

12-20-65 Drig. 11743'.

1-3-66 Drig. 12492'.

1-10-66 Drlg. 12905'.

1-17-66 TD 13135', prep to DSc.

ILLEGIBLE

Drig.

- 2-14-66 Drig. 1.6/

2-7-66

Gramma Rice 35 Sec. 34 (218) 34R - LEA SHELL CIL CO., #1 THE CO. Page #2 65 Contains ! DSM (More vales will, pen 4 hrs 7 mins, $\underline{\mathbf{M}}^{*}\mathbf{S}^{-}\mathbf{H}^{A}(\mathbf{r}_{0},\mathbf{r}_{0})=\{0,\dots,\infty\}$ Flwd repair for mos, Plwd tomas are regarded MemorPD, SEP 4700#, 1300 MJ TEL S. F. . A. Of 1300 verype s F 1000# thra various chks, 1 hr 40 mar 18 F 682#, 3P 5648 6784#, 3 hr 28 min - : P - 6528. Drigo 1 / Start 1-24-66 DST 100 ' part table the kind of the contract Dr. w. A. S. - " 1.31-66

ILLEGIBLE

 $\mathbb{Z}M$ Gramma Flidge Sec. 34-21S-34E SHELL OIL CO., #1 GRB State Page #3 TD 14603', FBD 13194', SI. 3-14-66 Perf (Morrow) @ 12921', 12922', 12924', 12926', 12918', 12930', 12932', 12934', 13020', 13022', 13051', 13056'W/L SPI Flwd 11.2 MOFGFD in 18 has thru various chokes + 57 % Gond., TP 5500#. TD 14603', PED 3094', SI.
TD 14603', PED 13194', COMPLETED. 3-21-66 3-28-66 FOUR-POINT TEST: (Holding for tops) Gas Volume Choke ${
m TP}$ Time 8/6411 2 hrs 3641 MCFGPD 5890# 20/64世 6717 MCTGPD 5673非 2 hrs 9101 MCFGPD 12/64" 5419# 2 hrs 34/64" 11483 MOWGPD 5075# 2 hrs 4-4-66 TD 14603', PBD 13194', Completion Reported.

SAMPLE TOP: Micr w 12750' (-9099')
LOG COPS: Tates 3950', Seven Rivers
4423', Delaware Mountain 5567', Bone Spring
8240', Wolfcamp 21277', Des Moines 11680',
Morrow Clastics 12750', Mississippian lime
13828', Woodford 14288', Siluro-Devonian
14444'.

| COUN | TY | LI | <u>EA</u> | | 1 | FIELD U | <u>ndesignated</u> | ST | ATE NM | |
|-------|------|-----|-----------|------|------|---------|--------------------|---------|-----------|-------|
|)PR | SH | ELL | OI | L CO | MPAN | 1X | | | MA MA | P |
| | 1 | | | tate | | | | | | |
| | Se | | | | | R-34 | -E | | · co-o | ₹0 |
| | | | | | | | ' fr W Line | of Sec. | | |
| | | | | | | | | CLASS | , E | L.* |
| | | | | | | | FORMATION | DATUM | FORMATION | DATUM |
| CSG & | sx . | TUB | ING | | | | <u></u> | | | |
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PROP DEPTH 13,800' TYPE

F.R. 10-14-65 PD 13,800' - Pennsylvanian District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

March 19, 2001 Submit 1 copy of the final affected wells

Form C-104A

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy of the final affected wells list along with 1 copy of this form per number of wells on that list to appropriate District Office

Change of Operator

| Previo | ous Operator Information: | Ne | w Operator information: |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| | | Effective Date: | April 1, 1999 |
| OGRID: | 7377 | New Ogrid: | 015742 |
| Name: | EOG RESOURCES, INC. | New Name: | NEARBURG PRODUCING COMPANY |
| Address: | P. O. BOX 2267 | Address: | 3300 N. "A" STREET |
| Address: _ | | Address: | BUILDING 2, SUITE 120 |
| City, State, Zip: _ | MIDLAND, TX 79702 | City, State, Zip: | MIDLAND, TX 79702 |
| | the rules of the Oil Conservation Division ed list of wells is true and complete to the ROBERT G. SHELTON LAND MANAGER ////// Phone: (915) 686 | best of my knowledg | |
| Previous operator | complete below: |] | NMOCD Approval |
| Previous | | | |
| Operator: | EOG RESOURCES, INC. | Signature: | and Thank |
| Previous | | Printed | |
| OGRID: | 7377 | Name: | AUL F KAUTE |
| Signature: Printed Name: | Bevery Joseph Beverly Hatfield | District: PETR | NOV 1 5 2001 |
| *** Llano "34" | State Well #1 API #: 30 | 025 26318 | |

29054 Property Code: 27520; Pool Name & Code: Gramma Ridge Morrow, East 77690 LOCATION: Unit I, Sec 34, T215, R34E; 1650 FSL 660 FEL, Lea Co., NM

State of New Mexico Energy, Minerals and Natural Resources Department

| O. Drawer DD, Artesia, NM 88210 STATE STATE FEE STATE STATE STATE FEE STATE STATE STATE FEE S | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------|
| DISTRICT II | Santa Fe, NM | | | |
| P.O. Diawel DD, Antesia, NW 00210 | | and the Markett of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second | sindicate Type of Leade | |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | en er formaliset en de Merike. Se en en en en en en en en en en en en en | «State Oil & Gas Lease | |
| SUNDRY NOTIC | ES AND REPORTS ON V | VELLS | | |
| (DO NOT USE THIS FORM FOR PROP DIFFERENT RESERV | | PEN OR PLUG BACK TO A | -Lease Name or Unit A | |
| ₁Type of Well: | <u></u> | | LLano "34" State | |
| OIL GAS WELL | OTHER | | | |
| ² Name of Operator Nearburg Producing Company | | | ₃Well No. 1 | |
| 3Address of Operator 3300 North "A" Street, Building 2, St | uite 120 Midland TX 79705 | | Pool name or Wildcat | row: East |
| 4Well Location | ite 120, Wildiand, 1X 19103 | | Grama Ridge Mor | TOW, East |
| Unit Letter I : 1650 F | Feet From The South | Line and 660 | Feet From The | East Line |
| Section 34 | Township 21S | Range 34E | NMPM | Lea County |
| | ₁₀Elevation (Show whether 3651' GR | DF, RKB, RT, GR, etc.) | | |
| 11 Check App | propriate Box to Indicate | Nature of Notice, Rep | ort, or Other Da | ta |
| NOTICE OF INT | | * ** I | SEQUENT REP | ORT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | | ALTERING CASING |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING OF | PNS | PLUG AND ANBANDONMENT |
| PULL OR ALTER CASING | | CASING TEST AND CEME | NT JOB | |
| OTHER: | | OTHER: | | |
| 12Describe Proposed or Completed Operations work) SEE RULE 1103. | (Clearly state all pertinent details, and | give pertinent dates, including est | limated date of starting an | y proposed |
| Nearburg Producing Company reque | sts to Plug and Abandon the a | above referenced well as fo | llows: | |
| 1.) Set CIBP @ 12,750'. Cap w/ 35' of 2.) Set 100' plug f/11,650' to 11,550'. | of cement. Circ w/ mud. — 7. . (Top of Strawn 11,626') | AG | | 030 030 030 030 030 030 030 030 030 030 |
| 3.) Set 100' plug f/ 8400' to 8300'. (T | op of Bone Spring 8348') | | | 991071 |
| 4.) Set 100' plug f/ 5450' to 5550' (To 5.) Cut 7-5/8" csg @ 5000' and pull. | | | 1507 | 100 1011/2/20 |
| 6.) Spot 100' plug f/ 50' to 50' out of (| csg stub I A G | | 110 | 72 |
| 7.) Spot 100' plug f/ 4000' to 4100'. (8.) Spot 100' plug f/ 1150' to 1250'. (| 10p 01 (ales 4104) | AG | × / | 77.59904 55 |
| 9.) Set 30' surface plug & dry hole m | | | 5 | 77, 77, 77 |
| | THE | COMMISSION MUST B | E NOTIFIED 24 | 3 10 × 3 × 3 |
| TERMINATE E/2, SECTION 34, 320 | ACRE SPACING UNIT. HO | urs prior to the be | GINNING OF | |
| | IO | GGING OPERATIONS F BE APPROVED. | OR THE C-103 | 1100 |
| | | | | 302.92.9627 |
| i hereby certify that the information above is true | ue and complete to the best of my kno | wledge and belief. | | |
| SIGNATURE CONTRACTOR | vail | τπιε Regulatory Analyst | | DATE 11-19-2001 |
| TYPE OR PRINT NAME | | | TE | LEPHONE NO. |
| (This space for State Use) | ^ | | | |
| 2/2001/ | 1.16 | NATHSAL COURSE | NE NAANA CEE | NOV 28 2001 |
| APPROVED BY WILL LE ANY | JMR | TITLE' " " O. II TE COSESSO | L DE-MAGEN | DATE |
| CONDITIONS OF APPROVAL, IF ANY | | | | |

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

OIL CONSERVATION DIVISION 2040 South Pacheco

State of New Mexico

Energy, Minerals & Natural Resources

Form C-104 Revised March 25, 1999

Submit to Appropriate District Office

5 Copies

| District IV | os Ha., Aztec, r | NM 8/410 | | | Santa Fe, NM 8 | 37505 | | Г | AMENDED REPORT | |
|------------------------|-----------------------------------|-------------------------|---------------------|--------------------|------------------------|---------------------------|------------------------|-----------------------------------------|-------------------------------------|--|
| | acheco, Santa F | e, NM 87505 | i | | | | | _ | | |
| l | | | | ST FOR ALL | OWABLE AN | ND AUTHORIZA | TION TO TE | | | |
| EOG Resource | es, Inc. | | ¹ Operat | tor name and Ad | idress | | | | GRID Number 7377 | |
| P.O. Box 2267 | | | | | | | | 3Reas | on for Filing Code | |
| Midland, TX 7 | 9702 Number | | | | ⁵ Pool Name | | | Change of Ope | Pool Code | |
| 30-025-26318 | | | | | e Morrow, East | | | | 77690 | |
| ⁷ Proper | rty Code | | | | Property Name | | | | ⁹ Well Number | |
| 77 | 5 '人 <i>レ</i> | Щ. | | Llano "34" Stat | te | | | | 11 | |
| . | Section | | Banca | Lot. ldn | Feet from the | North/South Line | Feet from the | East/West line | Country | |
| UL or lot no. | | Township | Range | Lot. Idii | | | | į. | County | |
| <u> </u> | | 218 ole Locatio | 34E | <u> </u> | 1650 | South | 660 | East | Lea | |
| UL or lot no. | Section | Township | Range | Lot. Idn | Feet from the | North/South Line | Feet from the | East/West line | County | |
| | | | | | | | | | , | |
| ¹² Lse Code | ¹³ Producing N | Method Code | 14Gas Co | onnection Date | ¹⁵ C-129 F | Permit Number | ¹⁶ C-129 Ef | fective Date | ¹⁷ C-129 Expiration Date | |
| S | sı | ! | | | | | | | | |
| | Gas Transpo | orters | | | | | | | | |
| | sporter | İ | | nsporter Name | | ²⁰ POD | ²¹ O/G | 7 | ULSTR Location | |
| OG | RID | | an | nd Address | | | | and | d Description | |
| | | ĺ | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | <u> </u> | |
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| | | | | | | | | | | |
| IV. Produce | nd Motor | | | | | | | L | | |
| POD 23 POD | o water | | | | POD ULSTR L | ocation and Descript | ion | | | |
| | | | | | . 02 020 | | | | | |
| 14 144 11 6 | l D.di | | | | | | | | | |
| | mpletion Dat d Date | ra ²⁶ Ready | . Date | ²/TD | ²⁸ PBTD | ²⁹ Perfora | tions | ³⁰ DHC, | MC | |
| Эрис | J Date | · | Date | | '5'5 | 1 011014 | (IOIIO |) | , INO | |
| | | | 20 | <u> </u> | | 34 | | | | |
| 3'Hole | e Size | | **Casing | and Tubing Size | e | ³³ Depth | Set | 34Sacks Cement | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| VIII VALEUTE | D-4- | <u> </u> | | | | | | | | |
| VI. Well Tes | St Data New Oil | ³⁶ Gas Deliv | veny Date | 37 _{Tes} | st Date | ³⁸ Test Length | ³⁹ Tbg. P | ressure | ⁴⁰ Csg. Pressure | |
| Date | 1011 011 | | - | | | | | | | |
| ⁴¹ Chok | e Size | ⁴² O |)il | ⁴³ W | /ater | ⁴Gas _. | ⁴⁵ A | OF | ⁴⁶ Test Method | |
| 47 hereby certify: | that the rules of ti | he Oil Conserv | ation Division | have been compi | iled with | OII C | ONSERVATI | ON DIVISIO | N | |
| | | | | he best of my knov | | 0.20 | SITOLITY (II. | 0,, 0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | • | |
| and belief. | , | | | | · | | , | , ` | Λ | |
| Signature: | nike | Tra | n. e. | | | Approved by: | Janes |)-Win | Jb. | |
| Printed Name: | | IN LOW | | | | Title: | | | | |
| Title: | Mike Francis | | | | | Approval Date: | REPRES | ENTATIVE | TAR 0 2 2001 | |
| 1106. | Agent | | | | | Approvar Date. | | | TAR 0 2 2001 | |
| Date: | 11/27/00 | | Phone: | 915-686-3714 | | | | | | |
| elf this is a cha | ange of operator Peços River O | r fill in the OG | iRID numbe | r and name of ti | he previous ope | rator | | | | |
| 1 | LA KAL | perating, inc. | - OGRID # | | om R. Huck | 170-1 | DPSAATION Title | · c | //-28-00 | |
| Proviou | s Operator Sign | nature | | | d Name | | Title | | Date | |

Bill Huck

District I P.O. Box 1980, Hobbs, NM 88241-1980 District II

Energy, Minerals and Natural Resources Department

Form C-104 Revised February 10, 1994

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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

| District III | | | | D. Box 2088 | | | | | | 5 Copies |
|-----------------------------------------|-------------------------|--------------------------|------------------|-----------------|------------------------------------------|------------------|---------------------------------------|--------------|---------------------------------------|--------------|
| 1000 Rio Brazos Rd., A | ztec, NM 87410 | | | outh Pache | | | 4 | | 1 | |
| District IV | | | Santa F | Fe, NM 87 | 505 | | | | AMEND | ED REPORT |
| P.O. Box 2088, Santa F | e, NM 87504-2088 | | | | | | | | | |
| 1. | REQU | JEST FOR ALI | LOWABLE | E AND AUT | THORIZATIO | N TO TRA | ANSPOR | T | | |
| 1 Operator name an | d Address | | | | | ² OGR | ID Number | | | |
| Pecos Rive | er Operating, | inc. | | | | | 7081 | | | |
| P O Box 16 | 675 | | | | | 3 Reas | on for Filing Co | de | | |
| Roswell, N | M 88202 | | | | | CH | l effective | | 1, 1998 | |
| ⁴ API Number | | ⁵ Pool Name | | | | | 8 | Pool Code | | |
| 30-025-263 | 318 | Grama Ride | ge Morrow | , East | | | | 77690 | | |
| ⁷ Property Code | . ^ | * Property Name | .4.4. | | | | ' | Well Numbe | r | l |
| 232 | | Llano '34' S | tate | | | | l | 1 | | |
| | [™] Surface L | | | | | | ···· | | | |
| UI or lot no. | Section | Township | Range | Lot. Idn | Feet from the | North/Sout | | et from the | East/West line | County |
| <u> </u> | 34 | 218 | 34E | <u> </u> | 1650 | <u> </u> | s | 660 | E | Lea |
| | | ole Location | | | · - · · · · · · · · · · · · · · · · · · | r | | | | |
| UI or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/Sout | n line Fe | et from the | East/West line | County |
| 12 Lee Code | 13 Genduck | ng Method Code | 14 Gas Con | nection Date 15 | C-129 Permit Numb | of 16 29 F | fective Date | 17 | C-129 Evn | iration Date |
| 12 Lse Code | Shut in | ig Mediod Code | Gas Con | necton Date | O-123 F Billing Halling | . | nocoro Dato | | O-123 Exp | Water Date |
| | | | L | | | | | | | |
| III. Oil and Gas | s Transporte | 19 Transporter Name | | 2 | POD | 21 O/G | 22 | POD ULSTR | Location | |
| OGRID | Ì | and Address | | | | | | and Desripti | | |
| 138648 | Amoco Pi | peline ICT | | | 1046310 | 0 | | | | |
| | P O Box 1 | | | | | | | | | |
| | Midland | ry 70702 | | | | | | | | |
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State of New Mexico
Minerals & Natural Resources Department: OONSERVE Revised October 18, 1994

STATE OF DIVISION INSTRUCTIONS ON Back

District Office District 1 PO Box 1980, Hobbs, NM 88241-1980 District II Submit to Appropriate District Office OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 811 South First, Artesia, NM 88210 96 明 22 日月 8 日 AMENDED REPORT District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Sants Fe, NM 87505 REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT I. ¹ OGRID Number Operator name and Address 00873 Apache Corporation 2000 Post Oak Blvd - Ste 100 Reason for Filing Code Houston, TX 77056-4400 CH eff:1/1/96 ⁵ Pool Name * Pool Code ⁴ API Number 77690 Grama Ridge Morrow, East **30 - 0** 25-26318 * Well Number Property Code ⁴ Property Name 001 Llano '34' State Com 18742 10 Surface Location II. Lot.Idn Feet from the North/South Line | Feet from the Fact/West line County Ul or lot no. 660 34E 1650 S Lea 218 11 Bottom Hole Location East/West line UL or lot no. Section North/South line Feet from the Township Lot Idn Feet from the County 13 Producing Method Code ¹⁴ Gas Connection Date " C-129 Effective Date 17 C-129 Expiration Date 15 C-129 Permit Number 12 Lse Code Shut in S III. Oil and Gas Transporters 21 O/G 22 POD ULSTR Location " POD 19 Transporter Name **OGRID** and Address and Description Đ) 1046312 1046330 6 Produced Water POD ³⁴ POD ULSTR Location and Description 2806903 Well Completion Data Spud Date * Ready Date TT) " PBTD ²⁹ Perforations * DHC, DC,MC " Hole Size 12 Casing & Tubing Size 13 Depth Set M Sacks Cement VI. Well Test Data B Date New Oil M Gas Delivery Date " Test Date 3 Test Length " Tbg. Pressure " Csg. Pressure 42 Oil " Choke Size 43 Water 4 Gas 4 AOF " Test Method 1 hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my OIL CONSERVATION DIVISION knowledge and b Signature: (Approved by: Printed name: Title: SUPERVISOR <u>Julia North</u> Title: Approval Date: Sr Regulatory Analyst MAR 2 0 1996 Phone: 713-296-7122 If this is a change of operator fill in the OGRID number and name of the previous operator #09761 Apache Energy Resources Corporation

Julia North

Title

Sr Regulatory Analyst

Date

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| TRICY: . Box 1980, Hobbs, NM 8824 | | | | | | | | HUCKLOS. | | |
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Submit 5 Copies
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DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104 Revised 1-1-89 See Instruction

OIL CONSERVATION DIVISION BIL CONSERVE ON TO TOTAL TON TO TOTAL TON TO THE PAGE

P.O. Box 2088 RECEIVED

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410 REQUEST FOR ALLOWABLE AND AUTHORIZATION 21 nm 9 46 TO TRANSPORT OIL AND NATURAL GAS Well API No. Operator <u> 30-</u>025-26318 Hadson Energy Resources Corporation Address P.O. 25956. Oklahoma City, OK 73125-0956 Box Reason(s) for Filing (Check proper box) Other (Please explain) New Well Change in Transporter of: Dry Gas Oil Recompletion Change in Operator X If change of operator give name and address of previous operator Hadson Petroleum (USA), Inc., P.O. Box 26770, Oklahoma City, OK 73126 II. DESCRIPTION OF WELL AND LEASE Lease No. E-9659 K-3592 Well No. | Pool Name, Including Formation Lease Name Kind of Lease State, Federal or Fee Llano "34" State Crama Ridge Morrow Ras Location 1650 Feet From The South Line and 660 East Unit Letter __ Feet From The ___ Township 21S Range 34E , NMPM, County III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Oil or Condensate X P.O. Box 2256, Wichita, KS 67201

Address (Give address to which approved copy of this form is to be sent) Company Name of Authorized Transporter of Casinghead Gas or Dry Gas 🔯 Sanger, Hobbs, Men? 921 W Llano. NM 88240 Inc Rge. If well produces oil or liquids, Unit Sec. Twp Is gas actually connected? give location of tanks. Ι 34 21S 34E Yes 10/26/79 If this production is commingled with that from any other lease or pool, give commingling order number: IV. COMPLETION DATA Gas Well New Well Workover Oil Well Deepen Plug Back | Same Res'v Diff Res'v Designate Type of Completion - (X) Total Depth Date Spudded Date Compi. Ready to Prod. P.B.T.D. Top Oil/Gas Pay Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation **Tubing Depth** Perforations Depth Casing Shoe TUBING, CASING AND CEMENTING RECORD CASING & TUBING SIZE **DEPTH SET** SACKS CEMENT HOLE SIZE V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.) Producing Method (Flow, pump, gas lift, etc.) Date First New Oil Run To Tank Date of Test Choke Size Length of Test Casing Pressure **Tubing Pressure** Water - Bbls. Gas- MCF Actual Prod. During Test Oil - Bbls. **GAS WELL** Actual Prod. Test - MCF/D Length of Test Bbls. Condensate/MMCF Gravity of Condensate Testing Method (pitot, back pr.) Tubing Pressure (Shut-in) Casing Pressure (Shut-in) Choke Size VI. OPERATOR CERTIFICATE OF COMPLIANCE OIL CONSERVATION DIVISION I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above MAY 1 8 1993 is true and complete to the best of my knowledge and belief. Date Approved Drue E Harbin By Signature Bruce E. Hankins Engineering Technician DISTRICT I SUPERVISOR Printed Name Title (405)232-2212 Telephone No. 04/06/93 Date

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

| | Termcoms | | # | 68 |
|--------------------------|-----------------------------------------|-----|----------|----------|
| ORIG. Com Operator: | MINERALS INC. | • | | |
| Com name: | LLANO ST 34 COM WELL #1 | | | |
| CURRENT Well Operator: | HADGON DEMOCIEUM (1167) | | | |
| Pun: | 17623 | | | |
| Z-code: | Z-1252 | | | |
| Inst.: | | | | |
| Active communitizations: | CS | | | |
| | | ć | 36 | |
| U-s-t-r: | 21S-34E-34-I | 92 | | |
| County: | LEA | | CONS | |
| Eff. date: | 5/1/79 | NO. | 22 | |
| App. date: | 5/1/79 | - | | |
| Acreage: | 320 | er. | REC | |
| State: | 320 | ٠, | *** | |
| Federal: | 0 | - | < _ | |
| Other: | 0 | A | S C N | ; |
| Pool: | GRAMA RIDGE MORROW, EAST | | | ; |
| Leases: | K3592-3,E9659* | 9 | ₹ | : |
| Last prod.: | 3/91 | 64 | DIVISION | <u> </u> |
| Pemarks TERMINATED FFF. | 3/31/91 APP:11/5/92; LACK OF PRODUCTION | 9 | C | 2 |

SECTION 34 TOWNSHIP 21 South RANGE 34 East

| | , | | |
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| HADSON | HADSON | HADSON | HADSON |
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| 09 73 | 09 73 | 09 73 | 09 73 |
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| 12 65 | 12 65 | 12 65 | 12 65 |
| E 9659 | E 9659 | E9659 | E9659 |
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| υ | υ | ប | ប |
| 12 65 | 12 65 | 12 65 | 12 65 |
| E9659 | E9659 | E9659 | E9659 |

Submit 5 Copies
Appropriate District Office
DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104 Revised 1-1-89

OIL CONSERVATION DIVISION OIL CONSER. ON BANGACOM Page

DISTRICT II P.O. Drawer DD, Antesia, NM 88210 Santa Fe, New Mexico 87504-2088 REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OF AND AUTHORIZATION DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 Operator Well API No. Hadson Petroleum (USA), Inc. 30-025-26318 Address P.O. Box 26770, Oklahoma City, OK 73126 Reason(s) for Filing (Check proper box) Other (Please explain) \Box New Well Change in Transporter of ☐ Dry Gas Recompletion Casinghead Gas Condensate Change in Operator If change of operator give name and address of previous operator II. DESCRIPTION OF WELL AND LEASE Kind of Lease State Federal or Fee Well No. Pool Name, Including Formation Lease No. Lease Name Llano 34 St. Com 1 Grama Ridge Morrow, East Location Feet From The South 1650 Ι _ Line and ___660 Feet From The ___ East Line Unit Letter 34 21S 34E Lea Township Range , NMPM, III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS or Condensate Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Oil XX O.O. Box 2256, Wichita, KS 67201 Koch Oil Company Name of Authorized Transporter of Casinghead Gas or Dry Gas XX Address (Give address to which approved copy of this form is to be sent) 921 W. Sanger, Hobbs, NM Llano, Inc. Unit When? If well produces oil or liquids, Sec. Twp. Rge. Is gas actually connected? give location of tanks. l 2is 34 34E Yes Ι If this production is commingled with that from any other lease or pool, give commingling order number: IV. COMPLETION DATA Oil Well Gas Well New Well Workover Deepen Plug Back Same Res'v Designate Type of Completion - (X) Total Depth Date Spudded Date Compl. Ready to Prod. P.B.T.D. Top Oil/Gas Pay Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation Tubing Depth Perforations Depth Casing Shoe TUBING, CASING AND CEMENTING RECORD SACKS CEMENT HOLE SIZE **CASING & TUBING SIZE DEPTH SET** V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.) Date First New Oil Run To Tank Producing Method (Flow, pump, gas lift, etc.) Date of Test Choke Size Casing Pressure Length of Test **Tubing Pressure** Water - Bbls. Gas- MCF Actual Prod. During Test Oil - Bbls. **GAS WELL** Actual Prod. Test - MCF/D Length of Test Bbls. Condensate/MMCF Gravity of Condensate Tubing Pressure (Shut-in) Casing Pressure (Shut-in) Testing Method (pitot, back pr.) VI. OPERATOR CERTIFICATE OF COMPLIANCE OIL CONSERVATION DIVISION I hereby certify that the rules and regulations of the Oil Conservation الآل لما المال Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Date Approved acu OH & GAS INSPECTOR Signature Darrel Hardy Adm. Mgr Printed Name Title Title.

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

6/4/92

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.

(405) 235-9531

Telephone No.

- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

Energy, Minerals and Natural Resources Department

OIL CONSERV REC

at Bottom of Page

OIL CONSERVATION DIVISION

State of New Mexico

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

'92 JAN 10 AM 9 18

| DISTRICT III | • | Santa Fe, New | Mexico 8/30 | 14-2088 | JL | Other 70.1 | 1111 3 | 10 |
|-----------------------------------------------------------------------------|------------------------|----------------------|---------------------|------------------|----------------|----------------|---------------------------------------|--------------|
| 1000 Rio Brazos Rd., Aztec, NM 87410 | REQUEST | FOR ALLOW | ABLE AND | AUTHORI: | ZATION | | | |
| I. | TO TE | RANSPORT C | IL AND NA | TURAL GA | | A DI AI | | |
| Operator | 70A) T | | | | | API No. | 210 | |
| Hadson Petroleum (L | | | | | 30 | 0-025-26 | 318 | |
| P.O. Box 26770 | Okla. City | , OK 73 | 126 | on (Diama armia | -i-1 | | | |
| Reason(s) for Filing (Check proper box) New Well | Change | in Transporter of: | | er (Please expla | iin) | | | |
| Recompletion | Oil [| Dry Gas |] | | | | | |
| Change in Operator | Casinghead Gas | Condensate X | k | | | | | |
| If change of operator give name and address of previous operator | | | | | · | | - ·- <u> </u> | |
| II. DESCRIPTION OF WELL Lease Name | | o. Pool Name, Inch | uding Formation | | Kind | of Lease | | ase No. |
| Llano 34 St. Com. | #1 | | idge Morr | ow, East | | Federal or Fee | | |
| Unit LetterI | : 1650 | Feet From The | South Line | and 660 | Fe | et From The | East | Line |
| Section 34 Townshi | _{ip} 21S | Range 34 | E , NI | мРМ, | Lea | | | County |
| III. DESIGNATION OF TRAN | SPORTER OF | OIL AND NAT | URAL GAS | | | | | |
| Name of Authorized Transporter of Oil | or Cone | | Address (Giv | e address to wh | | | | |
| Scurlock Permian Corp | | | | y, P.O. I | | | | |
| Name of Authorized Transporter of Casin | ighead Gas | or Dry Gas XX | | e address to wh | | | | nt) |
| If well produces oil or liquids, | Unit Sec. | Twp. Rg | ge. Is gas actually | Sanger, | When | | 40 | |
| give location of tanks. | I 34 | 1 21S 34E | | Yes | i witen | • | | |
| If this production is commingled with that IV. COMPLETION DATA | | | | ber: | | | | |
| Designate Type of Completion | Oil W | 'ell Gas Well | New Well | Workover | Deepen | Plug Back | Same Res'v | Diff Res'v |
| Date Spudded | Date Compl. Ready | y to Prod. | Total Depth | L | l | P.B.T.D. | L | <u> </u> |
| Elevations (DF, RKB, RT, GR, etc.) | Name of Producing | Econotica | Top Oil/Gas | Pav | | Tubing Dept | h | <u> </u> |
| | Ivalie of Fromeing | | | | | | | |
| Perforations | | | | | | Depth Casin | g Shoe | |
| | TUBIN | G, CASING AN | D CEMENTII | NG RECOR | D | | | |
| HOLE SIZE | CASING & | TUBING SIZE | | DEPTH SET | | S | SACKS CEME | ENT |
| | | | | | | | | |
| 1 | | | | | | ! | | |
| | | | | · | | | | |
| V. TEST DATA AND REQUE | | | · | | | | | |
| | recovery of total volu | ne of load oil and m | | | | | for full 24 how | rs.) |
| Date First New Oil Run To Tank | Date of Test | | Producing Me | ethod (Flow, pu | mp, gas iyi, e | e(c.) | | |
| Length of Test | Tubing Pressure | | Casing Press. | ire | | Choke Size | | |
| Actual Prod. During Test | Oil - Bbls. | | Water - Bbls. | | | Gas- MCF | | |
| CACMEN | <u>. İ</u> . | | | | | | | |
| GAS WELL Actual Prod. Test - MCF/D | I see the of Total | | Bbls, Conden | anto A D ICE | | Gravity of C | ondeneste | |
| Actual Flot. Test - MCF/D | Length of Test | | | | | | Condensate | |
| Testing Method (pitot, back pr.) | Tubing Pressure (S | hut-in) | Casing Press | ire (Shut-in) | | Choke Size | | |
| VI. OPERATOR CERTIFIC | lations of the Oil Con | servation | | OIL CON | ISERV | ATION | DIVISIC | N |
| Division have been complied with and is true and complete to the best of my | | | | | | JAI | N 0 7 '92 | • |
| David C. | 2 | · | Date | Approve | a | | - 32 | |
| Signature Darrel Hardy | Manager of | Administra | By By | Stelly | 1 XXXX | (A) | | |
| Printed Name | | Title | Title | | 3/mm 1 | 4 - 1.1.1 i : | · · · · · · · · · · · · · · · · · · · | |
| 1/2/92 | (405) 235-9 | 7.7.1 | | | | | | |

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit 5 Copies
Appropriate District Office
DISTRICT |
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

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

OIL CONSERVATION DIVISION
P.O. Box 2088 ONSERV ON DIVISION

Santa Fe, New Mexico 87504-2688 /ED

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION &

| 1. | | U INAI | 13FU | ni Oil | - AND INA | I UNAL GA | | | | |
|-------------------------------------------|--------------------|---------------|------------|-----------------------------------------|-----------------|---------------------------------------|------------------|--------------------------------------------------|----------------|-------------|
| Operator | | | | | | | 1 | API No. | | |
| Hadson Petroleum (| USA), Inc. | , | | | | | 30- | 025-2631 | 18 | |
| Address | | | | | | | | | | |
| P.O. Box 26770 | Okla. (| City, C | DΚ | 73126 | | | | | | |
| Reason(s) for Filing (Check proper box | r) | | | | Othe | et (Piease explo | zin) | | | |
| New Well | • | Change in 1 | Fransport | er of: | | | | | | |
| Recompletion | Oil | | Dry Gas | | | | | | | |
| Change in Operator | Casinghead | | | ate XX | | | | | | |
| If change of operator give name | | | | | · | | | | | |
| and address of previous operator | | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| II. DESCRIPTION OF WEL | L AND LEA | SE | | | | | | | | |
| Lease Name | | | | | ing Formation | | | of Lease | | Lease No. |
| Llano 34 St. Com. | | #1 | Gram | a Rid | ge Morro | w, East | State, | Federal or Fe | e | |
| Location | | | | | | | | | | |
| Unit Letter I | , 1650 |) | Feet From | n The So | outh Lim | and660 | Fe | et From The | East | Line |
| <u> </u> | - | | | | | | | | | |
| Section 34 Town | ship 21S | | Range | 34E | , Ń | ирм, | Lea | | | County |
| III. DESIGNATION OF TRA | ANSPORTER | OF OII | L AND | NATU | RAL GAS | | | | | |
| Name of Authorized Transporter of Oi | | or Condens | | Z .3 | | e address to wi | hich approved | copy of this | orm is to be | seni) |
| Mustang Fuel Corpora | | | L | ======================================= | i | | | | | OK 73106 |
| Name of Authorized Transporter of Ca | | | or Dry G | as XXI | | e address to wi | | | | |
| · - | miligneau Gas | <u> </u> | or Diy G | ** KY | 921 W. | | | | | seni) |
| Llano, Inc. | | | | | + | | Hobbs, | | 88240 | |
| If well produces oil or liquids, | | • | Twp. | Rge. | l' | y connected? | When | ? | | |
| give location of tanks. | I | 34 | 215 | 34E | Yes | | | | | |
| If this production is commingled with the | hat from any othe | r lease or p | ool, give | comming | ling order numb | per: | | | | |
| IV. COMPLETION DATA | | | | | | | | | | |
| | | Oil Well | G | s Well | New Well | Workover | Deepen | Plug Back | Same Res'v | Diff Res'v |
| Designate Type of Completic | on - (X) | | | | 1 | | 1 | 1 | 1 | 1 |
| Date Spudded | Date Compl | Ready to | Prod. | | Total Depth | | ٠ | P.B.T.D. | 1 | |
| Date Option | Jan Gampa | | . 100 | | | | | 1.6.1.0. | | |
| TI WAS TOO BYD OF CD | Norma of D | Accion For | | | Top Oil/Gas 1 | 5 ₂ v | | | | |
| Elevations (DF, RKB, RT, GR, etc.) | Name of Pro | oucing ror | mauon | | Top Old Old | · - , | | Tubing Dep | Æħ. | |
| | | | | | 1 | | | | | |
| Perforations | | | | | | | | Depth Casis | ag Shoe | |
| | | | | | | | | | | _ |
| | π | JBING. | CASIN | G AND | CEMENTI | NG RECOR | D | | | |
| HOLE SIZE | | ING & TUI | | | | DEPTH SET | | | SACKS CE | VENT |
| | | | | | 1 | | | | | |
| | | | | | | | | | | |
| | | | | | - | | | | | |
| | | | | | | | | | | |
| | | | | | <u> </u> | | | <u> </u> | | |
| V. TEST DATA AND REQU | | | | | | | | | | |
| OIL WELL (Test must be aft | er recovery of tou | al volume o | f load oil | and must | | | | | for full 24 ho | ners.) |
| Date First New Oil Run To Tank | Date of Test | | | | Producing Me | ethod (Flow, pu | emp, gas lift, e | etc.) | | |
| | | | | | | | | | | _ |
| Length of Test | Tubing Pres | SUFE | | | Casing Pressu | ire | | Choke Size | | |
| | | | | | | | | | | |
| Actual Prod. During Test | Oil - Bbls. | | | | Water - Bbls. | | | Gas- MCF | | |
| | Oil - Bois. | | | | | | | | | |
| | | | | | 1 | | | 1 | | |
| GAS WELL | | | | | | | | | _ | |
| Actual Prod. Test - MCF/D | Length of T | est | | | Bbls. Conden | sate/MMCF | | Gravity of | Condensate | |
| ! | | | | | 1 | | | | | |
| Testing Method (pitot, back pr.) | Tubing Pres | sure (Shut- | in) | | Casing Press | ire (Shut-in) | | Choke Size | | |
| 1 | | | | | | | | | | |
| VI. OPERATOR CERTIF | TCATE OF | CO3 (D) | TART | ~ | 7 | | | | | |
| | | | | JE | (| DIL CON | ISFRV | MOITA | DIVISION | ON |
| I hereby certify that the rules and re | - | | | | | | | | | ∪ 14 |
| Division have been complied with a | | | n above | | 11 | | חרר | 2 3 195 |) } | |
| is true and complete to the best of t | my knowledge and | Bellel. | | | Date | Approve | d ULU | N 0 . | <u>'/</u> | |
| OCMI | • | | | | | 77 | | | 1/ | |
| istall the | z | | | | D | ميكما | 16111 | R/IN | | |
| Signature | | | | _ | By_ | 1720 | אממון | NIM | - V | |
| Darrel Hardy | Manage | | | <u>strat</u> | i j on | Mar- | | | | |
| Printed Name | // 6= \ = | | Title | | Title | DISTRIC | FI SIM | SERVISO | | |
| 12/16/91 | (405)2 | <u>35-953</u> | | | 11 | | | TITALS! | HT. | |
| Date | | Telep | hone No. | | 11 | | | | 4 | |

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
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Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERY

ON DIVISION

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

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

OIL CONSERVATION DIVISION TO THE O P.O. Box 2088 Santa Fe, New Mexico 8750412088 25

AM 11 48

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION

| f_ | | | AND MATURAL CAS | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------|---------------------------|-----------------------------------------------|--------------|
| Operator | 10 104 | MOPORT OIL | AND NATURAL GAS | Wall At | No. | | |
| • | (IICA) Tno | | | 7 | 0-025 | 263 | 18 |
| Hadson Petroleum (| (USA) Inc. | | | 1 | 0-023 | | 73 |
| • • | Hobbe | s, NM 88240 | 1 | | | | |
| 921 W. Sanger | попов | 5, Nri 00240 | | | | | |
| Reason(s) for Filing (Check proper box) | . | | Other (Please explain |) | | | |
| New Well | | Transporter of: | Additional Tra | nsporte | r of Con | densate | Ţ |
| Recompletion | Oi [| | | - | | | |
| Change in Operator | Casinghead Gas | Condensate | | | | | |
| If change of operator give name | | | | | | | |
| and address of previous operator | | | | | | | |
| II. DESCRIPTION OF WELL | AND LEASE | | | | | | |
| Lease Name | Well No. | Pool Name, Includir | ng Formation | Kind of | Lease | E-965 | se No. |
| Llano 34 St. Com. | #1 | Grama Rid | lge Morrow, East | State) F | ederal or Fee | K-359 | 3 |
| Location | | ·• · · · · · · · · · · · · · · · · · · | | | | 1,55,000 | |
| Unit Letter | 1650 | Feet From The SO | OUTH 660 | | t From The | EAST | Line |
| Olin Letter | <u>. :</u> | rea riom the | Line and | ree | triom the | | |
| Section 34 Township | 218 | Range 34E | , NMPM, | | Lea | | County |
| 000000 0 1 304 44411 | | icange . | , 14417 145 | | | | |
| III. DESIGNATION OF TRAN | SPORTER OF O | II AND NATII | DAL GAS | | | | |
| Name of Authorized Transporter of Oil | or Conder | | Address (Give address to which | h approved | conv of this form | s is so be sen | <i>u</i> |
| R & K Oil Company | 1 1 | Isaac X | P.O. Box 1229 | | | 79714 | <i>"</i> |
| Name of Authorized Transporter of Casing | | as Dev Cos N | | | | | |
| - | mead Gas | or Dry Gas X | Address (Give address to which | | | | " |
| Llano, Inc. | | | 921 W. Sanger | | - | 88240 | |
| If well produces oil or liquids, give location of tanks. | Unit Sec. | Twp. Rge. | Is gas actually connected? | When | ? | | - |
| <u> </u> | I 34 | 21S 34E | Yes | | | ····· | |
| If this production is commingled with that i | from any other lease or | pool, give commingl | ing order number: | | | | |
| IV. COMPLETION DATA | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Decignate Type of Completion | Oil Wel | I Gas Well | New Well Workover | Deepen | Plug Back S | ame Res'v | Diff Res'v |
| Designate Type of Completion | | | | | | | <u></u> |
| Date Spudded | Date Compl. Ready to | o Prod. | Total Depth | | P.B.T.D. | | |
| | | | | | | | |
| Elevations (DF, RKB, RT, GR, etc.) | Name of Producing F | formation | Top Oil/Gas Pay | | Tubing Depth | | 1 |
| | <u> </u> | | | |] | | |
| Perforations | | | | | Depth Casing | Shoe | |
| | | | | | 1 | | Ì |
| | TUBING | CASING AND | CEMENTING RECORD |) | | | |
| HOLE SIZE | CASING & T | | DEPTH SET | | SA | CKS CEME | NT |
| | | | - | | | | |
| | | | | | | | |
| | | | 1 | | | | |
| | | | | | 1 | | |
| V. TEST DATA AND REQUES | ST FOR ALLOW | ABLE | 1, | | <u></u> | | |
| | | | be equal to or exceed top allow | vable for this | s depth or be for | full 24 hour | ·s.) |
| Date First New Oil Run To Tank | Date of Test | . by 1000 on 11/12 1/100. | Producing Method (Flow, pur | | | <u>, </u> | |
| | Date of lea | | Treating minutes in the Treating | 718-13-1 | , | | ļ |
| Length of Test | Tubing Program | | Casing Pressure | | Choke Size | | i |
| i i | Tubing Pressure | | Casing Prossure | | | | i |
| Actual Prod During Test | 0:1 811: | | Water - Bbls | | Gas- MCF | | |
| Actual Prod. During Test | Oil - Bbls. | | ITAICI - DUIL | | | | ļ |
| | 1 | | | | <u> </u> | | _1 |
| GAS WELL | | | | | | | |
| Actual Prod. Test - MCF/D | Length of Test | | Bbls. Condensate/MMCF | | Gravity of Co | ndensate | |
| | | | | i | | | ! |
| Testing Method (pitot, back pr.) | Tubing Pressure (She | ut-in) | Casing Pressure (Shut-in) | | Choke Size | | |
| • | | | | 1 | | | ! |
| VI. OPERATOR CERTIFIC | 'ATE OF COM | DITANCE | 1 | | | | |
| | - | | OIL CON | SERV | ATION D | DIVISIO | N |
| I hereby certify that the rules and regul Division have been complied with and | | | 1 | ··· | ۳۰ و د چې د د د . حصير | o 1 10 | 91 |
| is true and complete to the best of my | | | OIL CON | ٠. | ΔPR | 7 4 M | • |
| 9-1- 2 | | | Date Approved | | <u> </u> | | |
| Man / | 2 | | | | 1-1-1 | <u></u> | |
| Signature | / | | By | w | 71 | un | <u></u> |
| Steve Pfaff | Supervisor- (| Contract Adm | ith r | | | | - |
| Printed Name | (FAF) AGE AGE | Title | Title | Geolog | gist | | |
| | (505) 393-215 | | | | | | |
| Date | | lephone No. | | | | | |
| PART AND PROPERTY AND PROPERTY AND PARTY AND P | | THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S | | | TO STORY | | The state of |

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Sep rate Form C-104 must be filed for each pool in multiply completed wells.

OIL CONSERVATION DIVISION

dobbs P.O. Box 1980 Hobbs, NM 88240

Artesia P.O. Drawer DD Artesia, NM 88210 Astec 1000 Rio Brazos Aztec, NM 87410

| Connection | | First Delivery | Date | Initial Potential |
|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| Reconnecti | | The sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sale of the sa | | Initial Potential |
| Mecounecri | OG | First Delivery | Date | Initial Potential |
| Disconnect | | | | |
| r delivery | of gas from | theHads | | |
| | | | Operator | r |
| | | LLane | 34 State C | om |
| - | | | Dease | |
| 27523 ter Code | 680 Site Code | $-\frac{1}{\text{Well No.}}$ | nit Letter | 34/21/34 r S-T-R |
| net code | Dice odde | | | |
| | | Gram | Ridge Morr | ow, Lower East |
| | 2/21/89 | | | B B B D W B D |
| s made on | date | - ' | | 13. III |
| AOF | | | | APR - 4 1989 |
| AUF | | | | All and action as a sure of |
| Choke | | Phillips | Transpor | Cas Company ANDERSON |
| OHOEC | | | | |
| OCD us | e only | J. M. Ha | | Production Records Superv |
| County £ | n _ | Repre | sentative | Name/Title |
| | | (1) | ease type | or print) |
| Land Type | <u>st</u> | $-\infty$ | A A | |
| | porter <u>Mav</u> | | 10- | ve Signature |

Submit in duplicate to the appropriate district office.

OIL CONSERVATION DIVISION

BobbsP.O. Box 1980
Hobbs, NM 88240

Artesia P.O. Drawer DD Artesia, NM 88210

1000 Rio Brasos Astec, NM 87410

| st Delivery | 02-22-89 | |
|--------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Date | Initial Potentia |
| | 02-22-89 | |
| st Delivery | Date | Initial Potentia |
| | | |
| Hadson Petro | oleum (USA) | inc. |
| | Operator | |
| Llano "34" : | State Com. #1 | |
| | Lease | |
| #1 | I | Sec. 34, T21S, R34E |
| Well No. U | | |
| Grama Ridge | Morrow. East | : |
| | | |
| | | |
| LLANO | TNC. | |
| | | ter |
| Repre | sentative | |
| | Hadson Petro Llano "34" #1 Well No. U Grama Ridge LLANO, Steve Repre | Hadson Petroleum (USA) I Operator Llano "34" State Com. #1 Lease #1 I Well No. Unit Letter Grama Ridge Morrow, East Poo: LLANO, INC. Transport |

Submit in duplicate to the appropriate district office.

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION

| le | | O IIIA | 1170 | PUNI UIL | ו אוו טווא | OUVE OV | | | | |
|------------------------------------------------------------------------------------------------|--------------|--------------|-------------|-------------------------|-----------------|------------------------------------|---------------------|--------------|---------------------------------------|------------|
| Operator | | | | | | · | Well A | Pl No. | | |
| HADSON PETROLEUM (USA) Address | INC. | | | | | | | | | |
| 921 W. SANGER, HOBBS, N | M 8824 | 0 | | | | | | | | |
| Reason(s) for Filing (Check proper box) | | | | | Othe | t (Please expla | in) | | | |
| New Well | | Change in | Trans | | | | | | | 1 |
| Recompletion | Oil | ᅟᆜ | Dry | _ | | | | | | |
| Change in Operator | Casinghead | I Gas | Con | densate | | | . | | · · · · · · · · · · · · · · · · · · · | |
| If change of operator give name and address of previous operator | | | | | | | ···· | | | |
| IL DESCRIPTION OF WELL A | ND LEA | SE | | | | | | | | |
| Lesse Name | | _ | | Name, Includin | • | 1 TAOM | Kind o | Lease | | ase No. |
| LLANO "34" STATE COM. | | 1 | Gr | RAMA RIDG | E MORROV | LAST | | | E-395 | 12 |
| Unit Letter I | • | 1,650 | Fost | From The SO | UTH Line | sed 660 | . For | t From The | EAST | Line |
| | | | | 245 | | | | | | |
| Section 34 Township | 218 | | Ran | ge 34E | , N | <u>гРМ,</u> | LEA | | | County |
| III. DESIGNATION OF TRANS | PORTE | | | ND NATUR | | | | | | |
| Name of Authorized Transporter of Oil NAVAJO CRUDE OIL PURCHA | SING C | or Condea | | | | address to wh | | | | rd) |
| Name of Authorized Transporter of Casing LLANO, INC. | head Gas | | or D | ry Gas 🔀 | | ANGER, | | | | nt) |
| If well produces oil or liquids, | Unit | Sec. | Tw | | ls gas actually | connected? | When | | 1 | |
| give location of tanks. | <u> </u> | 34 | ^ | 21S 34E | YES | | | <u> 2/22</u> | 1 <u>89</u> | |
| If this production is commingled with that fi IV. COMPLETION DATA | on any on | el serse or | poot, | Rive consumation | ng Citer nam | | | | | |
| Designate Type of Completion - | (X) | Oil Well | | Gas Well | New Well | Workover | Deepen | Plug Back | Same Res'v | Diff Res'v |
| Date Spudded | Date Comp | ol. Ready to | Proc | 1. | Total Depth | | <u> </u> | P.B.T.D. | | |
| Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation Top Oil/Gas Pay Tubing Depth | | | | | | | | | | |
| Perforations | | | | <u></u> ! | ···· | | | Depth Casin | g Shoe | |
| | т | TIBING. | CA | SING AND | CEMENTI | NG RECOR | D | <u>!</u> | | |
| HOLE SIZE | | SING & TU | | | | DEPTH SET | | | SACKS CEM | ENT |
| | | | | | | | | | | |
| | · | | | | | | $-H^{\prime\prime}$ | | 177 | |
| | | | | | | | - line | العاطيم | +\V/7= | |
| V. TEST DATA AND REQUES | T FOR A | LLOW | ARI | .E | | | - / jij | MAR | 71/10 | HH |
| OIL WELL (Test must be after re | covery of to | tal volume | of loa | | be equal to or | exceed top allo | made for this | depth or be | for full 24 had | ris. |
| Date First New Oil Run To Tank | Date of Ter | | | | Producing Me | exceed top allo ethod (Flow, pu | orup, gas lift, e | (C.) | | |
| | | | | | | | | SONVATIO | MIN | |
| Length of Test | Tubing Pre | 37LIB2 | | | Casing Press | ıæ | | Choke Siz | | |
| Actual Prod. During Test | Oil - Bbis. | | | | Water - Bbis. | | | Gas- MCF | | |
| GAS WELL | 1,,,,,,,,, | | | - | | | | • | | |
| Actual Prod. Test - MCF/D | Length of | Test | | | Bbis. Conder | mic/MMCF | | Gravity of | Condensate | |
| Testing Method (pitot, back pr.) | Tubing Pre | saure (Shu | t-in) | | Casing Press | ire (Shut-in) | <u></u> | Choke Size | | |
| AT OTHER ARCH CENTER | | | 7F - | ANGE | \ <u></u> | | | 1 | <u> </u> | |
| VI. OPERATOR CERTIFIC. I hereby certify that the rules and regula | | | | | (| DIL CON | ISERV | ATION | DIVISIO | N |
| Division have been complied with and t | hat the info | nnstice giv | | | | | , | _ | 7, 1989 | |
| is true and complete to the best of my k | nomicaĝe și | uu vellei. | | | Date | Approve | /d | 1 LU N | 7 1000 | |
| Signature D | | | | | By_ | S | Mus | X | for | |
| Printed Name | | | ENG Tiu | | Title | " (| DISTRIC | T Y SUF | PERVISO | R |
| 7 (27 (89) | | | | -2153 se No . | | | | | | |

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- All sections of this form must be filled out for allowable on new and recompleted wells.
 Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
 Separate Form C-104 must be filed for each pool in multiply completed wells.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

| | - | T | | |
|--------------|-----|---|--|--|
| DISTRIBUT | | | | |
| SANTA FE | T | | | |
| FILE | | | | |
| U.S.O.S. | | | | |
| LAND OFFICE | | | | |
| TRAMSPORTER | OIL | | | |
| | GAS | | | |
| OPERATOR | | | | |
| PROBATION OF | HCR | | | |

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-104 Revised 10-01-78 Format 06-01-83 Page 1

Separate Forms C-104 must be filed for each pool in multiply

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GA

| AUTHORIZATION TO TRANS | PORT OIL AND NATURAL | GAS | |
|---------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|----------------------------------------|
| I. | | | |
| Operator | | | |
| HADSON PETROLEUM (USA) Inc. | | | |
| Address | | | |
| 921 West Sanger, Hobbs, NM 88240 | | • | |
| Reason(s) for filing (Check proper box) | Other (Please exp | lain) | ······································ |
| New Well Change in Transporter of: | | | |
| Recompletion Oil D | ry Gas | | |
| ▼ Change in Ownership Casinghead Gas | ondensate | | |
| | | | ······································ |
| If change of ownership give name and address of previous owner MTNERALS, INC. 921 W. | Sanger Hobbs NM | · 88240 | ٠ |
| and society of previous owner. | | | |
| II. DESCRIPTION OF WELL AND LEASE | | | |
| Lease Name Well No. Pool Name, including F | ormation Kin | d of Lease | E-9650No. |
| LLANO "34" STATE COM. 1 Grama Ridge Mo | orrow East Stat | e, Federal or Fee State | K-3592 |
| Location | | | |
| Unit Letter I : 1650 Feet From The South Lin | • and 660 F | est From The East | |
| | - | | |
| Line of Section 34 Township 215 Range | 34 <u>E</u> , nmpm, | Lea | County |
| | | | |
| III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL | . GAS | | |
| Name of Authorized Transporter of CII or Condensate | | ich approved copy of this form | is to be sent) |
| Navajo Crude Oil Purchasing Company | P. O. Box 175, Ar | | |
| Name of Authorized Transporter of Castnghead Gas or Dry Gas 🛣 | 1 | ich approved copy of this form | is to be sent) |
| Phillips Petroleum Company | 4001 Penbrook, Oc | | |
| If well produces oil or liquids, Unit Sec. Twp. Rgs. | Is gas actually connected? | When | |
| give location of tanks. I 34 21S 34E | Yes | 10-26-79 | |
| If this production is commingled with that from any other lease or pool, | give commingling order num | ber: | |
| | | | |
| NOTE: Complete Parts IV and V on reverse side if necessary. | | | |
| VI. CERTIFICATE OF COMPLIANCE | OIL CONS | SERVATION DUNISHON | |
| VI. CERTIFICATE OF CONFIDANCE | | TIN T' TYOU' | |
| I hereby certify that the rules and regulations of the Oil Conservation Division have | APPROVED | VVIIA | . 19 |
| been complied with and that the information given is true and complete to the best of | 1 | 1-2 2 Solet | • |
| my knowledge and belief. | BY | 1 / Mayor | |
| | TITLE Geo. | logist | |
| | | | |
| C.M. RTIGO | | iled in compliance with Mu | - |
| (Signature) | If this is a request : well, this form must be a | for allowable for a newly draccompanied by a tabulation | illed or deepened |
| Drilling & Production Engineer | teats taken on the well | in accordance with MULE | 111. |
| (Title) | | form must be filled out com | pletely for allow- |
| 6-5-87 | able on new and recomp | • | _ |
| (Date) | Fill out only Section well name or number, or to | ns I. II. III. and VI for chrancoporter or other auch cha | nanges of owner, inge of condition. |

completed wells.

| | (3/) | Ott Well | Gas Well | New Well | Workover | Deepen | Plug Back | Same Res'v. | Diff. Res" | |
|----------------------------------------------------------------------------------|-----------------------------|----------------------------|------------------------------------|------------------------------------|---------------------------------------------------|---------------|----------------------|-----------------|---------------|--|
| Designate Type of Completi | on — (X) | 1 | | i | | • | - | | : | |
| Date Spudded | Date Compl. | Date Compl. Ready to Prod. | | | Total Depth | | | P.B.T.D. | | |
| Elevations (DF, RKB, RT, GR, etc.; | Name of Producing Formation | | | Top Oil/Go | is Pay | | Tubing Depth | | | |
| Perforations | <u> </u> | | | | | | Depth Casir | ng Shoe | | |
| | | TUBING, | CASING, AN | D CEMENTI | NG RECORE |) | | | | |
| HOLE SIZE | CASIN | IG & TUBI | NG SIZE | | DEPTH SE | 7 | SA | CKS CEMEN | ΝT | |
| | | | | | | | | | ····· | |
| | | | | | | | + | | | |
| | | | | | | | | | | |
| | | | | | | | i | | | |
| V. TEST DATA AND REQUEST | FOR ALLO | WABLE (| Fest must be a able for this de | fter recovery | of socal volum full 24 hours) | e of load oil | and must be eq | qual to or exce | eed top aliou | |
| V. TEST DATA AND REQUEST OIL WELL Date First New Cil Run To Tanks | FOR ALLO | | Fest must be a able for this de | pth or be for | of total volum full 24 hours) Method (Flow, | | | qual to or exce | sed top alicu | |
| OII. WELL Date First New Cil Run To Tanks | | | Test must be a sble for this de | pth or be for | full 24 hours) Method (Flow. | | | qual to or exce | eed top alion | |
| OIL WELL Date First New Cil Run To Tanks Length of Tost | Date of Test | | Test must be a able for this de | Producing A | full 24 hours) Asthod (Flow. | | fi, etc.) | qual to or exce | eed top alion | |
| OIL WELL | Date of Test | | Test must be a able for this de | Producing A | full 24 hours) Asthod (Flow. | | ft, etc.) Choze Size | qual to or exce | eed top alion | |
| OIL WELL Date First New Cil Run To Tanks Length of Test Actual Prod. During Test | Date of Test | | Test must be a able for this de | Producing A | full 24 hours) Asthod (Flow. | | ft, etc.) Choze Size | qual to or exce | eed top alion | |
| OIL WELL Date First New Cil Run To Tanks Length of Tost | Date of Test | uma | Test must be a able for this de | Producing A Casing Pres Water-Bbis | full 24 hours) Asthod (Flow. | | ft, etc.) Choze Size | | eed top alion | |

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JUN 9
OCD
HOBBS OFFICE

STATE OF NEW MEXICO "MERGY AND MINERALS DEPARTMENT

| DISTRIBUTION SANTA PE FILE | P | ERVATION DIV . o. box 2088 E. NEW MEXICO 8 | | Form C-103 Revised 19-1- |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LANG OFFICE | • | | | State X Pee |
| OPERATOR | | | OR 00.483 | 5. State Off & Gas Lense No. |
| | | | ر (۱۷ باریکری | E-9659 |
| SUNDRY NI 100 HOT USE THIS FORM FOR PROPOSAL USE "APPLICATION FO | OTICES AND REPOR | RTS ON WELLS OF PLUE DACK TO A DIFFERE I FOR SUCH PROPOSALS. | ENT RESERVOIR. | |
| OIL | THER- | | | 7. Unit Agreement Name |
| Name of Operator | | | | 8. Farm or Lease Hame |
| MINERALS, INC. | • | | | Llano "34" St. Com |
| Address of Operator | | | *************************************** | 9. Well No. |
| P.O. Box 1320, Hobbs, New | Mexico 88240 | | | 1 |
| Location of Well | | ····· | | 10. Field and Pool, or Wildcat |
| UNIT LETTER I 1650 | SC FEET PROM THE | outh LINE AND | 660 | Grama Ridge Morrow Eas |
| East Line, section | 34 TOWNSHIP | 21 S | 34 E | |
| | | | | VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII |
| | 15. Elevation (Show 3651' GL, 36 | whether DF, RT, GR, etc. 571 DF | :.) | 12. County LEA |
| Check Appr NOTICE OF INTER | opriate Box To Indi | icate Nature of Not | - | ther Data IT REPORT OF: |
| CRFORM REMEDIAL WORK | PLUS AND ABANG CHANGE PLANS | COMMENCE DRILL CASING TEST AN | LING OPHS. | ALTERING CASING PLUG AND ABANDONMENT |
| OTHER | • | | | |
| | • | | | |
| Describe Proposed or Completed Operation work) SEE RULE 1703. | ms (Clearly state all perti | inent details, and give per | rinent dates, includin | g estimated date of starting any proposed |
| FSG blanking plug in Bake Otis 1.85" DD BP in colla w/1000 gal 10% HCl acid & 1 gal. Musol & 3 gal ENWA Max press. 5100 psig, avg OTIS DD BP @ 10,466' & pu | er 'F' nipple in ar of upper tbg so 1000 gals. methods 288 foamed to go press. 3400 pso 11led upper tbg so 1y from Model 'Demical cutter. | lower tbg string tring @ 10,466' anol blend contour 70 quality w/N2 sig, ISIP 5100 per gtring. Release 0' set @ 12,875' TOH w/lower tbg | g @ 12,000'to . Acidized Monaining 4 gals . Followed to sig. Acid job d Baker duel p with no result | HAI-50, 2 gals LoSurf 259, rt. w/80,000 SCF N2 flush. unsuccessfulRetrieved pkr & attempted to release lts. Ran free point & cut al pkr. TIH w/Baker Model |

8/31/84 ---FTP-270 psig, F 700 MCFPD to pipeline on 24/64" ck.

| I hereby ce | rily that the information above is true and compl | | best of my knowledge and belief. Wice Medley | DATE 9-18-84 |
|-------------|---------------------------------------------------|-------|-----------------------------------------------|--------------|
| APPROVED BY | Jerrijsons | *!*LE | DISTRICT 1 SUPERVISOR | SEP 27 1984 |

| | 343 | · | | <u> </u> | . <u> </u> | | | |
|-----|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| | un, ar curité receives | 1 | | | | | | |
| | SANTA FE. | • | MARCO MOTAVILLEMO | 551 014 | form C-104 | | | |
| | FILE | R1.QUI.51 | FOR ALLOWABLE AND | | Supersedes Of Elloctive 1-1-(| d C-191 and C 65 | | |
| | U.S.G.S. | AUTHORIZATION TO TRANSPORT OIL AND HATURAL GAS | | | | | | |
| | INAUSPORTER OIL | | | | | | | |
| | OPERATOR GAS | | | | | • | | |
| 1. | PRORATION OFFICE | | and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t | | ···· | | | |
| | Minerals, Inc. | | | ** | a system . | | | |
| | P. O. Box 1320. | Hobbs, NM 88241 | | | | | | |
| | Reason(s) for filing (Check proper box | , | Other (Please | explain) | | | | |
| | New Wolf Recompletion | Change in Transporter oil Oil Dry Go | ns [] | | ** | • . | | |
| | Change in Ownership | Cantrigheut Gan . Conde | naate [X] | <u> </u> | erica (d. 1946). Arthred (d. 1946). | | | |
| | If change of ownership give name and address of previous owner | and the control of the state of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the | | | | | | |
| Ħ. | DESCRIPTION OF WELL AND | LEASE | | | | | | |
| | Llano "34" State Com. | Well No. Pool Name, Including F 1 Grama Ridge M | İ | Kind of Lease State, Foderal of Fe | "State | E-9659 ^{No} K-3592 | | |
| | Location | | | | | -11. 0002 | | |
| | | O Feet From The South Lin | | Feet From The | East . | | | |
| | Line of Section 34 Tov | waship 21 South Range | 34 East , NMPM, | Lea | | County | | |
| ïï. | DESIGNATION OF TRANSPORT | TER OF OIL AND MATURAL GA | S Address (Give address to | which approved co | ov of this form is | to be sent | | |
| | Navajo Refining Compa | inv | P. O. Box 159, | Artesia, NM 8 | 88210 | | | |
| | Name of Authorized Transporter of Case Phillips Petroleum Com | | Address (Give address to Bartlesville, O | • | py of this form is | to be sent) | | |
| | If well produces oil or liquids, | Unit Sec. Twp. Pge. | Is gas actually connected | | | | | |
| | dive location of tanks. | i I 34 215 34E | yes | | ber 26, 197 | 9 | | |
| ŧV. | COMPLETION DATA | Oil Well Gas Well | New Well Workover | | Hack Sume fie | sty Thiif Bac | | |
| | Designate Type of Completion | n - (X) | 1 1 1 | | | | | |
| | May 21, 1979 | October 10. 1979 | Total Depth | P.B. | .т.р. 13,188' | ; | | |
| | Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | 13,280° Top Oil/Gas Pay 12,824° | Tuki | ing Depth | | | |
| | 3651' GL Perforations 12,824-38, 12, | Morrow 986-99, 13,002-04, 13,00 | . I | Dept | 12,8751 h Casing Shoe | | | |
| | 13,033-36, 13, | <u> 938-44, 13,165-70</u> | CEMENTING RECORD | <u> </u> | 13,279' | | | |
| | HOLE SIZE | CASING A TUBING SIZE | DEPTH SE | | SACKS CEA | senr_ | | |
| | 20" 14-3/4" | 16" 65# 10-3/4" 45.5# | 1,200' | | 1,300 5,700 | | | |
| | 9½ | 7-5/8" 29.7# | 11,200' | | _1,500 | | | |
| v | TEST DATA AND REQUEST FO | 1 4½" 13.3# liner | 13,279' fier recovery of total volum | e of load oil and mu | 500 | erosal ton alla | | |
| | OH, WELL, Date First New Oil Bun To Tanks | Date of Teet | pth or be for full 24 hours) Producing Mothes (Flow, | | | *** - *** - *** ********************** | | |
| | | | | | | | | |
| | Longth of Test | Tubing Freezure | Casing Pressure | Chak | co Size | | | |
| | Actual Fred, During Test | Gil-Bble. | Water - Bbls. | Gas | - MCF | | | |
| | AND THE PROPERTY OF STREET, AND STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, | | '/ | · | ************** | | | |
| 1 | GAS WELL, Actual Frod, Tool-MC7/O | Langth of Tost | Bbls. Condensets/ABICF | Gray | ity of Condensate | | | |
| | 3,980 MCF/D | 4 hours | 34 Bbls./MMCF | | 510 API | | | |
| | Testing kiethod (picot, back pr.) Back Pressure | Tubing Prossure (shut-in) 4825 psig | Racker | Chok | _16/64' | | | |
| VY. | Certificate of Compliano | DE | II 🔪 | ONSERVATION | COMMISSIO | - 400 4 | | |
| | I hereby cartify that the roles and re | egulations of the Oil Connervation | AFPROVED DIS | TRICT 1 SUPERV | /ISOMAUG I | 15-1304 | | |
| | Commission have been compiled we above in tree and compiles to the | | BY. | rry & | for for | <u></u> | | |
| | Minerals, Inc. | 11 A 1 A 16 | TITLE | SUPERVIS | SOR | | | |
| | Olk | Vacas | | of filed in complication of the complication of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete of the complete o | | | | |
| • | Al Klaar (Signa | (wo) | well, this form must | be accompanied by | y a tebulatien o | Litto Guvleit | | |
| • | Vice President | na mangaganin bahasan at ini ini da da manan manan manan ini baran ini angan manan ini angan manan ini angan manan | | the force post bolt | | | | |
| | 8-14. | -84 | Fill out only be | others L. H. Etc. | and VI for ches | gen of own | | |
| | ρ_{0} | 147 | well name or monitor, | or rumaberrater o | ······· winds classic | | | |

| | E OF NEW MEXICO MINERALS DEPARTMENT | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| F | OILCONSERVATION DIVISION | |
| | P. O. BOX 2088 | Form C-103 - Revised 10-1- |
| 3A2TA (| SANTA CE NEW MEXICO 87501 | |
| U.z.G.a. | | State X Fac |
| DPEAN O | | 5, State Oil 6 Gas Least No. |
| Anna Salah Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Marana Maran | | E-9659 & K-3592 |
| eu ca) | SUNDRY NOTICES AND REPORTS ON WELLS T USE THIS FORM FOR PROPOSALS TO DRILL ON TO GELDEN OF PLUGGINAL TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" IFFORM E TOTAL FOR MUCH PROPOSALS.) | |
| 01L [] | GAS WELL X OTHER. | 7. Unit Agreement Name |
| Minerals | | B. Form or Lease Name Llano "34" State Com. |
| 3. Address of C | | 9. Well No. |
| | x 1320, Hobbs, New Mexico 88240 | 1 |
| 4. Lecation of | I 1650 South 660 | 10. Field and Pool, or Wildcat Grama Ridge (Morrow) East |
| | • | |
| THE | ast Line, Section 34 TOWNSHIP 215 RANGE 34E NMPM. | |
| THINK ! | 15. Elevation (Show whether DF, RT, GR, etc.) | 12. County |
| | 3651 GL, 3671 DF | Lea []]]]]] |
| 16. | Check Appropriate Box To Indicate Nature of Notice, Report or Oth | er Data |
| | NOTICE OF INTENTION TO: SUBSEQUENT | REPORT OF: |
| PERFORM REME | PLUG AND ABANCON REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY A | | PLUG AND ABANDOLMENT |
| PULL OR ALTER | CABING CHANGE PLANS CASING TEST AND CEMENT JQB | _ |
| OTHER | OTHER | |
| | | |
| work) SEE | oposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including a RULE 1103. | • |
| <u>10-30-79</u> : | Morrow perfs (12,824'-12,838') would not produce. Acidized (12,2500 gallons $7\frac{1}{2}\%$ MS acid & flushed to top of perfs with 2% KCl | 2,824'-12,838') With |
| | N_2 in acid and flush. Max pressure 5250 psig, ISIP 4650 psig. | Recovered load water. |
| | would not flow. Acid job unsuccessful. | |
| <u>11-8-79</u> : | Morrow perfs (12,986'-13,170', gross) flow 350 MCF, 26 BO, 0 BV | V in 24 hrs., TPF 120 |
| | psig. Acidized (12,986'-13,170') with 5700 gallons 10% Mor-Flo CO ₂ and 90 ball sealers. Flushed with KCl water containing CO ₂ | Max pressure 5100 |
| | psig, ISIP 3800 psig. Flow 430 MCF, 7 BO, 24 BW in 24 hrs., The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state | F 95 psig. |
| 11-20-79: | Reperf Morrow perf (12,986'-13,170', gross) at 12,986'-12,999' | ; 13,002'-13,004'; |
| | 13,008'-13,018'; 13,020'-13,026'; 13,033'-13,036'; 13,038'-13,0 | 044'; 13,165'-13,170' |
| | with a thru-tubing and 2 jet shots per foot. Flow 470 MCF, 7 I TPF 925 psig. | 50, 10 DW IN 24 Hrs., |
| 11-29-79: | Morrow perfs (12,986'-13,170') acidized with 1,000 gallons 15% | HCl containing 12 |
| | gallons Mor-Flo II, 8 gallons INH., 110 gallons Musol followed | by 3,000 gallons |
| | methanol flushed with 2% KCl water. Treatment and flush contable of liquid. Max pressure 5200 psig, ISIP 4800 psig. Used | ined 1500 SCF No per |
| | tool during treatment. Perforated long tubing string with thru | u-tubing across from |
| | Morrow perfs 12,824'-12,838'. Total gross Morrow perfs 12,824 | '-13,170' now flowing |
| | through long tubing string. Flow 3,425 MCF, 22 BO, 12 BW in 24 | 1 hrs., TPF 2,800 |
| 18. I hereby car | psig. 13/64" choke. if that the information above is tro-find complete to the best of my knowledge and belief. | |
| V | | |
| 110450 | imalestary President | December 18, 1979 |
| | 0 0 1 | |
| APPROVED BY | Lemples SUPERVISOR DISTRICT | DATE WILL DE WAY |
| CONDITIONS O | F STPROVAC, IPANYI | |
| | • | |

OIL CONSERVATION COMMISSION

BOX 1980

HOBBS, NEW MEXICO

| NOTICE OF GAS CONNECTION | | | DATE_Nove | ember 7, 1979 |
|------------------------------|----------------|---------------------------|--------------------------|-----------------|
| | C.12 (27) (4) | 10.000 (10.000) 10.000 | | |
| This is to notify th | e Oil Conserva | tion Commission | that connec | ction for |
| the purchase of gas from the | Mine | rals, Inc. | | |
| <u> </u> | | Operator | | |
| Ilano "34" State Com | ,I | , <u>34-21-34</u> , | Grama Ridge | /Morrow(Upper), |
| Lease | Well Unit | S.T.R. | | Pool |
| Phillips Petroleum Com | | , was ma | de on Octob | er 26, 1979 . |
| Name of Parchas | ser | - | | • |
| | | • | | · |
| | | | | |
| | | | Petroleum | Company |
| | • | F | urchaser | |
| · · | | • ; | | |
| | | K | E Moor | ٠ |
| | | Re K. | presentative E. Moore | 9 |
| | | | | |
| | | Cas Teste | r Superviso | r |

Title

cc: To Operator

Oil Conservation Commission - Santa Fe

OIL CONSERVATION COMMISSION

BOX 1980

HOBBS, NEW MEXICO

| | | - | |
|--------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| NOTICE OF GAS CONNECTION | | | DATE November 7, 1979 |
| | i Name | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | |
| | C11 (3)2" | NUMBER OF STREET | |
| | S. | | |
| This is to notify the | Oil Conservat | cion Commission | n that connection for |
| the purchase of gas from the _ | • | Minerals, Inc. | |
| the purchase of gas 110% the | | Operator | ······································ |
| • | | Political | |
| Ilano "34" State Com , | <u> </u> | , 34-21-34 | Grama Ridge/Morrow(Lower), Rool |
| Lease | Well Unit | S.T.R. | Pool |
| • | | | |
| Phillips Petroleum Com | ipany | , was ma | ade on October 26, 1979 . |
| Name of Purchaser | • | | |
| | | • | |
| • | , | | • |
| | | | . : |
| • | | | |
| | | | Petroleum Company |
| . • | | | Purchaser |
| | • | • | |
| • | | | |
| | | 1/ | 1111 |
| | • | <u> </u> | c Waore |
| | | | epresentative |
| | | K | E. Moore |
| | | | |
| | | | |
| | | Gas Tes | ster Supervisor |
| | | | Title |
| • | | | • |
| | | | |
| cc: To Operator | | | |

Oil Conservation Commission - Santa Fe

| BULL VSO MINITE | ALG L | H.FT | VI () (| νı |
|------------------|-------|------|----------|----|
| **. ** ***** *** | | | | |
| DIST MINUTE | | | | |
| 8441648 | | | | |
| FILE | | | | |
| V.1.0.1, | | | | ŀ |
| LAND OFFICE | | | | |
| TRAMSPORTER | OIL. | | | |
| | UAL | | | |
| DPERATOR | | | | |

OIL CONSERVATION DIVISION

| | SANTA FE | | W MEXICO 87501 | |
|---------|------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|
| | P.S.O.S. | | | Y |
| | TRANSPORTER OIL | | OR ALLOWABLE | |
| ļ | OPERATOR OAR | | AND SPORT OIL AND NATURAL GAS | |
| ٠. | Operator | | | |
| | Minerals, Inc. | | | |
| | P. O. Box 1320, Ho | bbs, New Mexico 88240 | | |
| | Reason(s) for filing (Check proper bos | | Other (Please explain) | |
| | New Well Recompletion | Change in Transporter of: Oil Dry G | | |
| | Change in Ownership | Casinghead Gas Conde | FF 1 | |
| | If change of ownership give name and address of previous owner | | | |
| . | DESCRIPTION OF WELL AND | LEASE Well No. Pool Name, Including F | ormation Kind of Leas | |
| | Llano "34" State Com. | 1 Grama Ridge | | F-0650 |
| | Location | | , | 1 N-3332 |
| | Unit Leiter 1; 16 | 50 Feet From The South Lin | ne and 660 Feet From | rh• <u>East</u> |
| | Line of Section 34 To | waship 21-S Ronge | 34-E , _{мыры} , Le | a County |
| . 1 | DESIGNATION OF TRANSPOR | TER OF OIL AND NATURAL GA | ıs | |
| | Name of Authorized Transporter of Oil | or Condensate | Address (Give address to which appro- | |
| | Southern Union Refinin | <u> </u> | P. O. Box 980, Hobbs, N | |
| | Phillips Petroleum Com | pany | Bartlesville, Oklahoma | 74004 |
| ĺ | If well produces oil or liquids, give location of tanks. | Unit Sec. Twp. Rge. I 34 21-S 34-E | Is gas actually connected? Who | en |
| ı | f this production is commingled wi | th that from any other lease or pool, | give commingling order number: | |
| Г | COMPLETION DATA | Oil Well Gas Well | New Well Workover Deepen | Plug Back Same Res'v. Diff. Res |
| | Designate Type of Completion | | X | 1 1 1 |
| | May 21, 1979 | October 10, 1979 | Total Depth 13,280' | P.B.T.D. 13,188' |
| 1 | Elevations (DF, RKB, RT, GR, etc.) 3651' GL | Name of Producing Formation Morrow | Top Cil/Gas Pay 12,824 | Tubing Depth 12,875' |
| } | | 986-99, 13,002-04, 13,00 | .) | Depth Casing Shoe |
| | 36, 13,038-44, 13,165- | 70 | | 13,279' |
| - | HOLE SIZE | TUBING, CASING, AND | CEMENTING RECORD | SACKS CEMENT |
| + | 20" | 16" 65# | 1,200' | 1300 |
| r | 14-3/4" | 10-3/4" 45.5# | 5,773' | 5700 |
| | 9½" | 7-5/8" 29.7# | 11,200' | 1500 |
| L | 6½" | 13.3#Line | | 500 |
| | TEST DATA AND REQUEST FO DIL WELL | OR ALLUMABLE (Test must be a) able for this de | fier recovery of total volume of load oil a pth or be for full 24 hours) | and must be equal to or exceed top allo |
| Ī | Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow, pump, gas lif | i, etc.) |
| - | Length of Tost | Tubing Pressure | Casing Pressure | Choke Sixe |
| _ | Actual Prod. Duting Test | Oil-Bbis. | Water - Bbls. | Gas-MCF |
| Ľ | retual Files, painty 1451 | | | |
| • | AS WELL | | 1 | |
| | Actual Fred. Test-MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| - | 3,980 MCF/D Feeling Method (pitot, buck pr.) | 4 hrs. Tubing Pressure (shut-in) | 34 bbls./MMCF Cosing Pressure (Enut-in) | 510 API |
| | Back pressure | . 4825 PSIG | Packer | 16/64" |
| C | ERTIFICATE OF COMPLIANC | CE C | OIL CONSERVAT | ION DIVISION |
| | | egulations of the Oil Conservation | APPROVED 100111 | , 19 |
| e) | ivision have been compiled with pove is true and complete to the | beat of my knowledge and belief. | BY WELL | |
| | | 11/2/ | TITIL SUPERVISOR DIS | STRICT |
| | XV 11/- | 1 | This form is to be filed in c | |
| | Lovaly (Signal | C TANK T | If this is a request for allow- well, this form must be accompan | able for a newly drilled or despended by a tabulation of the deviation |
| | [| | | |

(Tiele) October 16, 1979

(Date)

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I. II, III, and VI for changes of owner well name or number, or transporter or other such classes of condition Separate Forms C-104 must be filed for each pool in multiple

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| 28. CASING SIZE 16" 10-3/4" 7-5/8" 29. SIZE 4½" 31. Perforation Record 12,986-99, 13,13,033-36, 13,foot. Date First Production 10-6-79 | WEIGHT LB 65 45.5 29.7 TOP 10,728' (Interval, size an 002-04, 13 038-44, 13 | 1,20 5,77 11,20 5,77 11,20 INER RECORD BOTTOM 13,279' ad number) 12,82 ,008-18, 13, ,165-70, 2 s | SACKS CEMENT 500 SX. C1 4-38, 020-26, hots per PROD wing, gas lift, pump | SCREEN 32. AC DEPTH IN 12,824'- UCTION Ding - Size and ty | CEMENT! 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 SX. Li 100 | te + 200 s. te + 300 s. e + 600 sx TUBING DEPTH SE 10,573 12,875 CTURE, CEMEN AMOUNT AN Natural | AMOUNT PUX. Class "C" CX. Class "C" CX. Class "C" CX. Class "H" TO CMT. @ 52 RECORD TO PACKER 10,5 12,8 T SQUEEZE, ETC. D KIND MATERIAL US COMPletion SI-WOPC | irc. irc. p 50' ser 73 |
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| 28. CASING SIZE 16" 10-3/4" 7-5/8" 29. SIZE 4½" 31. Perforation Record 12,986-99, 13, 13,033-36, 13, foot. 33. Date First Production 10-6-79 Date of Test 10-9-79 Flow Tubing Press. 1,524 PSIG | WEIGHT LB 65 45.5 29.7 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 10,728 | 1,20 5,77 11,20 5,77 11,20 INER RECORD BOTTOM 13,279' d number) 12,82 ,008-18, 13, ,165-70, 2 S suction Method (Flor Flowing Choke Size 16/64" Te Calculated 24 Hour Rate | SACKS CEMENT SACKS CEMENT 500 SX. C1 4-38, 020-26, shots per PROD Prod'n. For Test Period Proton | SCREEN 32. AC DEPTH IN 12,824'- UCTION Ing - Size and ty 23 | Gas - MCF 663 CEMENTI CEMENTI CEMENTI CEMENTI CEMENTI CONTROL SIZE 2-3/8" 2-3/8" 2-3/8" 10, SHOT, FRA TERVAL Gas - MCF 663 | te + 200 s. te + 300 s. e + 600 sx TUBING DEPTH SE 10,573 12,875 CTURE, CEMEN AMOUNT AN Natural Well: Water - Bbl. 0 - Bbl. 0 | AMOUNT PUX. Class "C" CX. Class "C" CX. Class "C" CX. Class "C" CX. Class "H" TO CMT. @ 52 RECORD CT PACKER 10,5 12,8 T SQUEEZE, ETC. D KIND MATERIAL US COMPletion SI-WOPC Gas—Oil Ratio 28,826:1 Oil Gravity API (C. 510 API | irc. irc. p 50' set 73 75 |
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled a deepened well. It shall be accompanied by one copy of all electrical and ratio-activity logs run on the well and a summary of all special tests conducted; including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 31 shall be reported for each zone. The form is to be filed in quintuplicate except of state land, where six copies are required. See Bule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

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| B. Sal | . 1. | | | | · · · · · · · · · · · · · · · · · · · | T Ojo A | lamo | | T. | Penn. "B" | | |

Llano 34 State Com. No. 1

- DST No. 1 Bone Springs: 10,730' 10,800' (70'). Tool open 1 hr. 35 mins., 5 min. preflow, $1\frac{1}{2}$ hrs., initial shut-in, $1\frac{1}{2}$ hrs. final flow, 3 hrs. final shut-in. Tool opened w/fair blow of air and decreased to zero blow in 1 hr. Rec. 6,170' gas and 330' gas cut mud w/trace of oil. Sample chamber recovered: 0.48 cu. ft. of gas, 10 c.c. of oil, 40 c.c. mud at 100 psi pressure. Pressures: initial hydrostatic 5793, preflow 18-18, initial shut-in 1873, final flow 12-18, final shut-in 940, final hydrostatic 5789, BHT 1540 F.
- DST No. 2: 11,110' 11,155' (45'). Tool open 1 hr. 35 mins., 5 min. preflow, $\overline{1}$ hr. 5 mins. initial shut-in, $1\frac{1}{2}$ hrs. final flow, 3 hrs. final shut-in. Tool opened with weak blow of air steady throughout test. Rec. 4665' gas, 180' gas cut mud. Sample chamber recovered: 0.39 cu. ft. gas, 20 c.c. mud @ 85 PSI. Pressures: initial hydrostatic 5980, preflow 12-12, initial shut-in 305, final flow 10-17, final shut-in 398, final hydrostatic 5998, BHT 150° F.
- DST No. 3: 11,265'-11,421' (156'). Tool open 40 mins., 10 min. preflow, 30 min. initial shut in, 30 min. final flow, 1 hr. final shut-in. Tool opened with no blow at surface throughout test. Recovered 1500' of water blanket. Sample chamber recovered: 3.8 cu. ft. gas, 15 c.c. mud @ 550 psi. Pressures: initial hydrostatic 6,089, preflow 749 749, initial shut-in 1,277, final flow 749 749, final shut-in 1,040, final hydrostatic 6,107, BHT 1860 F.
- DST No. 4: Strawn 11,690' 11,792' (102'). Tool open 3 hrs., 10 min. preflow, $\frac{1}{2}$ hr. initial shut-in, 2 hrs. 50 mins. final flow, 6 hrs. final shut-in. GTS in 1 hr. 5 mins., flow max 50 MCFPD @ 23 PSI on $\frac{1}{4}$ " choke. Recovered 2000' water-blanket & 630' gas & dist. Pressures: Initial hydrostatic 6,838, Initial flow 958 940, initial shut-in 7,062, final flow 921 1201, final shut-in 6,932, final hydrostatic 6,857, BHT 170°.
- DST No. 5: Atoka 12,173' 12,278' (105'). Tool open 2 hrs. 50 mins., 10 min. preflow, $1\frac{1}{2}$ hrs. initial shut-in, 2 hrs. 40 mins. final flow, 5 hrs. final shut-in. Tool opened with fair blow of air. Gas to surface in 1 hr. 10 mins., flow max 40 MCFPD @ 16 PSI on $\frac{1}{4}$ " choke prior to declining to zero flow @ end of final flow period. Recovered 3000' of gas cut water blanket plus 200' of gas cut mud. Pressures: Initial hydrostatic 7,405, initial flow 1436 1491, Initial shut-in 6658, final flow 1509 1509 final shut-in 6879, final hydrostatic 7401, BHT 178°.
- DST No. 6: Atoka 12,396' 12,630' (234'). Tool open 2 hrs. 10 mins., 1 min. preflow, $1\frac{1}{2}$ hrs. initial shut-in, 2 hrs. final flow, 4 hrs. final shut-in. Tool opened with fair blow of air. Gas to surface 24 mins. After tool opened on preflow. Max flow 60 MCFPD on $\frac{1}{2}$ " choke @ 29 psi. Recovered 1000' water blanket gas cut and 280' distillate and gas cut mud. Sample chamber: 1.25 cu. ft. gas @ 425 psi, 185 cc distillate, 140 cc mud. Pressures: Initial hydrostatic 8059, initial flow 599 599, initial shut-in 7596, final flow 506 599, final shut-in 6893, final hydrostatic 7966, BHT 1780.
- DST No. 7: 12,644' 12,733' (89') Atoka. Tool open 1 hr. 20 mins. 10 min. preflow, $\overline{1}$ hr. 2nd flow, 10 min. 3rd flow, $\overline{1}$ hr. initial shut-in, 15 min. 2nd shut-in, 2 hr. final shut-in. Open tool with very weak air blow on preflow. No blow during 2nd & 3rd flow periods. Recovered 3000' water blanket plus 30' mud. Sample Chamber: 0.3 cu. ft. gas, trace oil, 500 cc mud @ 75 psig. Pressures: Initial hydrostatic 8148, initial flow 1472-1472, initial shut-in 2410, 2nd flow 1472-1472, 2nd shut-in 1528, final flow 1454-1454, final shut-in 1822, final hydrostatic 8056, BHT 179°.

| WELL NAM | IE AND NUMBER Llano State "34" Com #1 | |
|----------|-------------------------------------------------------------|---|
| LOCATION | Section 34, T21S, R34E, Lea County, New Mexico | |
| , | (New Mexico give U.S.T&R: Texas give S, BLK, SURV. and TWP) | , |
| OPERATOR | Minerals, Inc. | |

DRILLING CONTRACTOR **MORANCO**

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

| Degree | es and Depth | Degrees a | nd Depth | De | grees | and Depth | De | grees | and Depth |
|--------|--------------|-----------|----------|----|-------|-----------|----------------------------------------------|-------------|---------------------------------------|
| 1 | /2 217 | 1 1/2 | 3670 | | 3/4 | 8639 | <u>1</u> | 1/2 | 12,180 |
| 1 | /2 519 | 1 | 3784 | 1 | | 9125 | 1 | | 12,425 |
| 1, | /2 922 | 1 | 4182 | 1 | 1/4 | 9128 | | 3/4 | 12,630 |
| 1 | 1200 | 1 1/2 | 4650 | 1 | 1/4 | 9437 | | 1/2 | 12,902 |
| 1, | /2 1475 | 3/4 | 5150 | | 1/4 | 9747 | | 3/4 | 13,275 |
| 1, | /2 1741 | 3/4 | 5638 | | 1/2 | 10,251 | | · | |
| 3, | /4 1970 | 1 | 6130 | 1 | 1/4 | 10,665 | | | |
| 1 | 2200 | 3/4 | 6593 | 1 | | 10,800 | | | |
| 3, | /4 2488 | 1 | 7087 | 1 | 3/4 | 10,951 | <u>. </u> | | |
| 3 | /4 2830 | 3/4 | 7568 | 1 | 1/4 | 11,200 | | ····· | |
| 1 | 3108 | 3/4 | 7858 | 1 | 1/4 | 11,421 | · | | |
| 1 1 | /4 3455 | 3/4 | 8148 | 1 | | 11,792 | | | · · · · · · · · · · · · · · · · · · · |

Drilling Contractor

Jerry

Subscribed and sworn to before me this /at day

BAYNE SWINNEY AL COMMISSION EXPIRES

| DISTRIBUTION SANTA FE | NEW MEXICO OIL C | CONSERVATION CO | DAMISSION . | Form C-103 Octobs Superscries Old C-102 and C-103 Ellective 1-1-65 |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| U.S.G.S. LAND OFFICE OPERATOR | | | • | State Off & Gas Lease No. |
| SUNDA | Y NOTICES AND REPORTS | LIG PACE TO A DIFFEDE | UT RESERVOIR. | E-9659 |
| O'L CAS WELL X | OTHER- | a suca pachospus (1 | | 7. Unit Agreement Name |
| 2. Name of Operator Minerals, Inc. | DIALK. | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | | 6. Form or Lease Name Llano "34" State Com |
| 1. Address of Operator | bs, New Mexico 88240 | | | 9. Well No. 1 |
| 4. Lecution of Well | 50 FEET FROM THE SOL | ıth (| 560 | 10. Field and Fool, or Wildest Undesignated |
| THE East LINE, SECTION | 34 2 | | 34E | |
| | 15. Elevetion (Show whe 3651' GL, 3671 | | | 12. County Lea |
| Check A | ppropriate Box To Indicat | | ce, Report or Oth | er Data |
| PERFORM REMEDIAL WORK TEMPGRARILY ABANDON PULL OR ALTER CASING OTHER | PLUG AND ABAHDON (| REMEDIAL WORK COMMENCE DRILL CASING TEST AND OTHER | | ALTERING CASING PLUG AND ABANDONMENT ion attempt |
| | Perf. Strawn w/2 JSPF 11,742-44, 11,746-52, | 0 11,712-14, 1 | 11,717-19, 11,7 | 23-25, 11,730-36, |
| | 7000 gals. 20% HCL and Acidized perf. 11,712 containing 25# of XR-2 for each 5000 gal. sta of oil and gas. Squee containing .2% HR-4 & 1000 lbs. for 30 minut out to PBTD 13,188. P | ball sealers. to 11,786 with plus 5# FR-16 ge. Recovered zed Strawn per .9% Halad 9 pe | Recovered 20 15,000 gals. 5 plus 1.5 gal. 680 bbls. loarfs. w/200 sx. er sx. Tested essure loss. D | 4 bbls. load water. 20% acid in 3 stages LT-22 & 1 gal. I-15 d water with trace Class "H" neat cmt. squeeze perf. to |
| | 7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7, | | | |
| | CONSTRUCTION SANTA FE | | | |
| 18, 1 hereby cerefy that the infogration at | June 10 tripe and complete to the bea | President | d belief. | BAYE <u>October 12, 1979</u> |
| O sus what | SUI | ERVISOR D | ISTR ICIL (| OCT 22 1979. |
| CONDITIONS OF APCHOVAL, IF ANY | THE - | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | UATE uniquenessistation |

State of New Mexico







Commissioner of Public Lands
October 19, 1979

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Minerals, Inc. P. O. Box 1320 Hobbs, New Mexico 88240

> Re: Minerals, Inc.-Llano State "34" Com Well No. 1 E/2 Sec 34-T21S-R34E Lea County, New Mexico

ATTENTION: Mr. G. W. Edwards

Gentlemen:

The Commissioner of Public Lands has this date approved your communitization agreement covering the E/2 of Section 34, Tosnship 21 South, Range 34 East, Lea County, New Mexico. Such agreement covers the MORROW formation. The effective date to be as of May 1, 1979, being the date of your agreement.

Enclosed are Five (5) Certificates of approval.

Your Ten (\$10.00) Dollar filing fee has been received.

Very truly yours,

ALEX J. ARMIJO COMMISSIONER OF PUBLIC LANDS

BY:

RAY D. GRAHAM, Director Oil and Gas Division

AJA/RDG/s encl.

cc:

OCD-Santa Fe, New Mexico

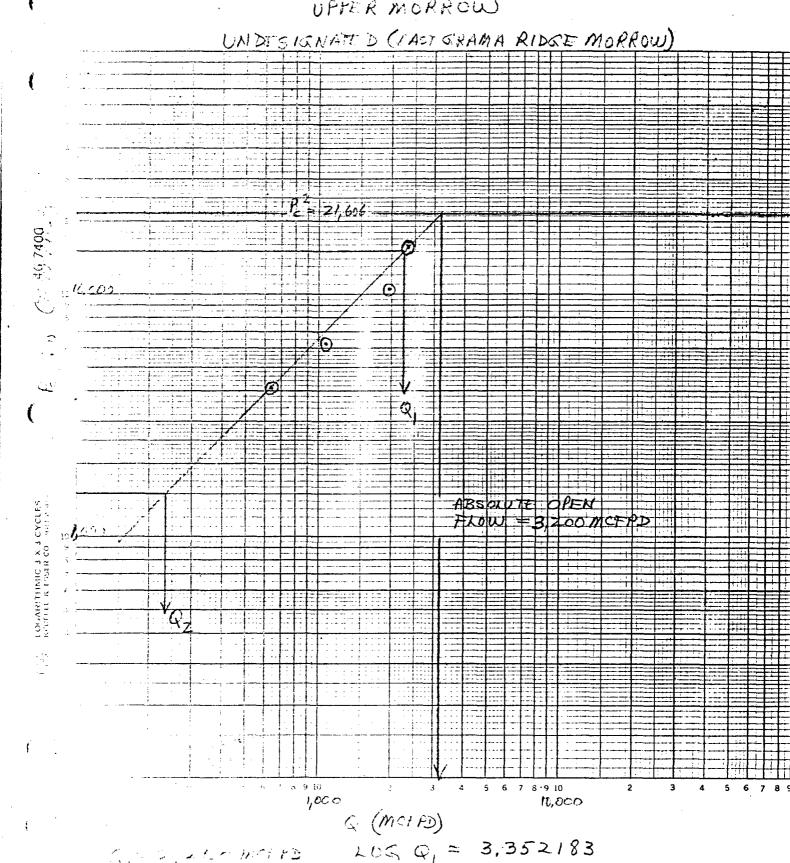
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MINERALS, INC.

ILLEGIBLE

LLANO 34" STATE COM. No.1

I - 34 - 215 - 34E LEA COUNTY, HEW MENICO UPPER MORROW



235 MC/PD LOS Q2 = 2.371068

m = 0.981115 = 0.981

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONE 505 393-5396

ILLEGIBLE

HOBBS. NEW MEXICO 88240

| OPERATOR Minerals Inc. |
|-----------------------------------------------------------------------------------|
| FIELD Undesignated |
| FORMATION Morrow-A |
| LEASE ilano 54 State Com WELL #1 |
| COUNTY Lea STATE New Mexico |
| DATE <u>October 9, 1979</u> TIME 9:25 AM |
| Status Shut in |
| Test Depth 10600' |
| Time S. I. 90.0 hrs. Last test date |
| Tub Pres. 1655 DWT BHP last test |
| Cas. Pres. Dual BHP change - |
| Elev. 30721 RB-21 Fluid top None |
| Datum 1-9159) ** Water top None |
| Datum <u>1-9159) ** Water top None</u> Temp. @ <u>168 F</u> Rún by <u>JSI #20</u> |
| Cal. No. 18478 N Chart No. 1 |

BOTTOM HOLE PRESSURE RECORD

| Depth | Pressure | Gradient |
|-------|------------------------------------|----------|
| 0 | . 4635 | |
| 2000 | 4800 , | .083 |
| 4000 | 4984 | .092 |
| 6000 | 5170 | .093 |
| 8000 | 5358 | .094 |
| 10000 | 5546 | .094 |
| 10600 | 5603 | .095 |
| 12831 | (- 9159). 5815 * ** | (.095) |

^{*} EXTRAPOLATED PRESSURE

^{**} MIDPOINT OF CASING PERFORATIONS

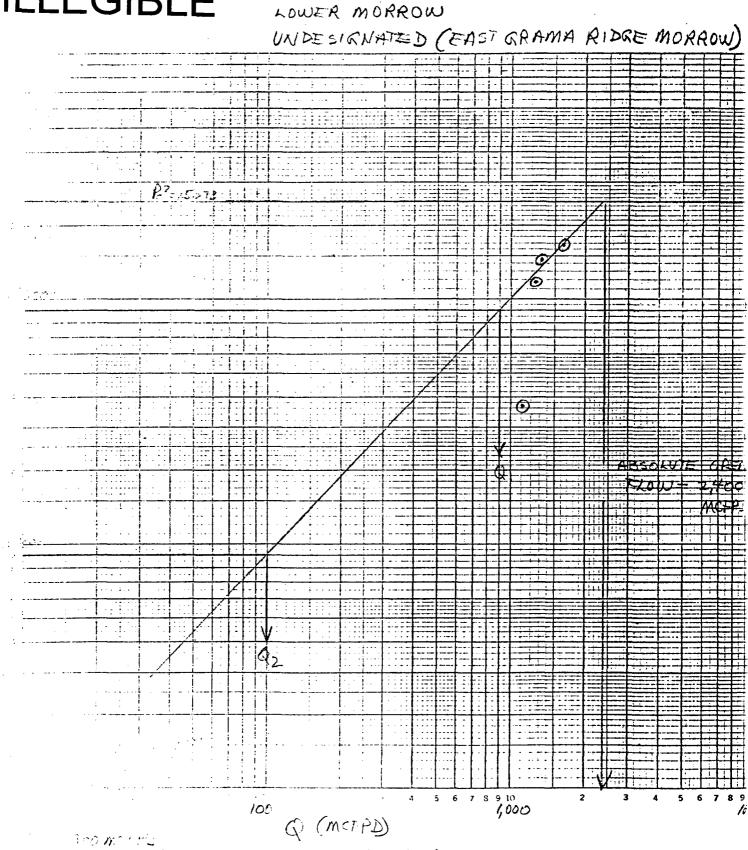
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NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| ine iest | | | | | | | | | | Least L | | | | | | -, |
|----------------------------|------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|--------------|-------------------------------|------------------|-------------------------|-----------------|-------------|---------------|---------------------|---------------------------------------|-------------------|--------------------|
| Crest day | () Initial | | | <u> </u> | \nnual Tisaa | entici | | | *::[3 ! | 10/ | 8/79 | | | <u> </u> | , 1 | |
| Mineral | ls, Inc | :. | | | ŧ | | lips Pe | etr. Co |). | | | ٠., | | | i - / | |
| Undesig | | · | ast Gran Ridge) | | 1 | .owe | r Morro | | | | | 00113 | -Unit (| 1011 I.I. VIII | | |
| 10/6/79 | | | Tet il Lepth | 280 | | | ն մայլ հետև 13. | , 188 | | 1.1evati 367 | on 2 KB | | 1 | r Lease t | | te Com |
| Crq. Size | V-1. | | ,d | Sel | Ai | | Perlamite | n s : | | | | - | Well No | | J (4 | CE COIII |
| 41 ₂ | 13.5 | | 3.920 | | 13,27 | 79 | From Perferance | 12,896 | T | • 13 | ,170 | | Unit | Soc. | Twp. | Rijes |
| 2-3/8 | 4.6 | | 1.995 | | 12,87 | 70 | From | _ | T | 0 | | | I | 34 | 215 | 341 |
| Tyre Well - Sin: | ne-Pods ingle | nhesa | d=G.G. or G | .O. M | itirio | | | Packer S | | | | | County | ea | | |
| Producing Thru | L | | our Temp. *1 | | Meun / | | Temp. *F | Buro. Pr | .ss | F _a | | | Stole | | | · |
| TBG | В | 177 | a 13,28 | 10 | * CO | 60° | % N 2 | 1 | 3.2 | | Prove | | N Neter | ew Mex | | |
| 12,870 | 12,8 | 70 | 0.67 | 5 | % CO. | | NI NI | L | % н ₂ s - | • | Piove | ** | 4" | | F | lange |
| | | | OW DAT | | | | | TUE | ING | DATA | | C/ | SING | DATA | | Duration |
| NO. Prover Line Size | Α | rilice Size | Press. | | Diff hw | | Temp. *F | Pres p.5.1. | | Tem | | Pto: p.s.i | | Temp. | | ol Flow |
| s! 36 h | ours | | | | | | | 5,01 | | | | acke | r | | | |
| 1. 4 x 2.2 2. 4 x 2.2 | | | 130 148 | - | 7.8 8.5 | | 93 99 | 2,71 2,12 | | 72 | | | | | | 1 hour |
| 3. 4 x 2.2 | 50 | | 160 | | 9.0 | | 99 | 1,89 | | 67 | | | | · · · · · · · · · · · · · · · · · · · | _ - | 1 hour 1 hour |
| 4. 4 x 2.2 | 50 | | 200 | | 11.0 | | 100 | 1,59 | 5 | 67 | | | | | | 1 hour |
| 5. | | | J | l | RAT | | F FLOW | CAL CUL | ATIO | I ONS | | | | | l | |
| Coeffic | lent | | | - | | ssure | | Temo. | | Gravity | | 5 | Super | | Rate of | Flow |
| NO. (24 Hs | our) | | h _w P _m | | | m | | octor Ft, | | Factor Fq | | | npress. lot, Fpv | | Q. M | cld |
| 1 28.23 | | | 33.42 | | 143 | | 0.9 | | 1 | .217 | | | .012 | | 1,1 | |
| 2 28.23 3 28.23 | | | 37.02 39.48 | | 161 173 | | 0.9 | | | .217 .217 | | | .013 .015 | | $\frac{1,2}{1,3}$ | |
| 4 28.23 | | | 48,43 | | 213 | | 0.9 | | | .217 | | | .019 | | 1,6 | |
| 5. | | | | | | | | | <u></u> | | | 1./ | | | | |
| NO. P | Trap. | R | Te | | z | 1 | Liquid Hyd I. Gravity o | | | | | 14 52 | | | | _ McI/bbl. Deq. |
| 1 0.21 | 553 | - | 1.44 | | 976 | - | ilic Gravity | • | _ | | .675 | | | X X | (XX | XXXX |
| 2. 0.24 3. 0.26 | 559 559 | - | 1.46 1.46 | | 974 971 | | ific Gravity cal Pressu | | | . | <u>x_x</u> | XXX | P.S.1. | | | _ P.S.1.λ. |
| 4. 0.32 | 560 | | 1.46 | | 963 | | cal Temper | | | | | | | R | | R |
| 5 5.027.2 | F ₂ 2 | L 25,2 | l 273 | | } | | | | | | | | | | | |
| NO! ; | i' ' | * | 12 | | - 13,2 | (1)_ | $\frac{P_c^2}{F_c^2 + I_b^2}$ | = _ | 1.4 | 9/84 | (| 2) | Pc ² | n = | 1.470 |)26 |
| 2 | 3,686 | | 21,606 13,588 | | 667 685 | | 10 - IW | | | | | L, " | - 'w | ٦ | | |
| 3 | 3,289. | .2 | 10,819 | 14, | 454 | ASP | = Q | Fc2 |] n _ | 240 | 2 | | | | | |
| 5 | 2,898 | .2 | 8,400 | 16, | 873 | • | | Fc - F.2 | | | | | | | | |
| <u></u> | L | | 2,402 | | 1 | | | | | | | | | \neg | | |
| Absolute type F | | | ressure | hom | | | Mela 4 | | | | | | | Slope | n |).954_ |
| Hermital TBOC | | P | , c33u1 e | ווטט | U UL | | .eu 101 | pressi | 11 E | Laicu | iati | 0115. | | | | |
| Toping daily | Januarion; | | Table State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State | St 110 | 1 - | | · | (1.1 - 1 - 1 | | | | | Thursday of | Date | | ······· |
| | / | | & Jar | rel | u. B Serv | . Sw . In | 1 1 1 1 1 1 C. V 1 | Cintaulmed AT | Kla | ar | | 1 | Thecked (| SWE | | |
| | | | | | | | | | | | | | | | | |

MINERALS, INC. LLAND 34" STATE COM. NO.1 I, 34-215-34E LEA COUNTY, NEW MEXICO

ILLEGIBLE



100MARL

LOG G = 2,954243

 $\lambda_{0}, \varphi_{2} = \frac{2.000000}{0.954243} = 0.954$

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONE 505 393-5396

HOBBS. NEW MEXICO 88240

OPERATOR____ <u> Vinerals Inc.</u> <u>tndesignated</u> FIELD ____ FORMATION _____Morrow-Lower LEASE | Llano 34 State Com | WELL #1 COUNTY Lea STATE New Mexico DATE <u>October 8, 1979</u> TIME 12:50 PM Status ____ Shut in Test Depth _ 13078' Time S. I. 56 hrs. Last test date Tub Pres. 5014 DWT BHP last test Cas. Pres. Dual BHP change _Fluid top ____ 12865 Elev. 3651 'GL Datum (-9427) ** Water top None Temp. @ 188°F Run by JSI #20

BOTTOM HOLE PRESSURE RECORD

| Depth | P | ressure | Gradient |
|-------|-------------|-----------|--------------|
| 0 | | 5014 | - |
| 2000 | | 5322 | .154 |
| 4000 | • | 5644 | .161 |
| 6000 | | 5966 | .161 |
| 8000 | | 6288 | .161 |
| 10000 | | 6612 | .162 |
| 12000 | | 6936 | .162 |
| 13078 | (-9427) | 7140 ** | .189 |
| | ** MIDPOINT | OF CASING | PERFORATIONS |

Cal. No. A 18478 S Chart No. 1

Pressure

1000 2000 3000 4000 5000 6000 7000

4000

0003

De púr

1307

COMMUNITIZATION NAME:

Minerals, Inc.-LLano State "34" Com Well No. 1

DATE APPROVED:

OPERATOR:

October 19, 1979

E/2 Sec. 34-21S-34E

Minerals, Inc.

EFFECTIVE DATE: COUNTY:

May 1, 1979

Lea

STATE ACREAGE:

TOTAL ACREAGE:

320.00

A11

MORROW FORMATION

:NOITUTION:

DEDICATED TO:

Common Schools

1 yr. and so long as

TERM OF COMMUNITIZATION:

NE/4SE/4 (I)

WELL LOCATION:

SEC.

TWP.

RGE.

SE/4

34

21S

34

21S

34E

NE/4

LEASE NO. LES

E-9659

K-3592-2

LLano, Inc.

LESSEE

im

Gulf Oil Corporation

160.00

ACREAGE 160.00

THIS ACREAGE IS WITHIN THE GRAMA RIDGE UNIT.

| DISTRIBUTION | | | Supe. C-10. | C-103 rsedes Old 2 and C-103 |
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| SARTAFE | NEW WEXICO OIL CO | DISERVATION COMMISSIO | N Effec | ctivo 1-1-65 |
| FILE | | | Sa India | ute Type of Leasa |
| U.5.G.S. | | | ĭ | X Fee |
| LAND OFFICE | 4 | • • | | Oll & Gos Lease No. |
| OPERATOR | J | • | | E-9659 |
| ¢usio: | W HOTICES AND DEDOGREE | CALLIER C | | |
| SUPPLY OF THIS FORM FOR PARTIES AND THE TOTAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE | RY NOTICES AND REPORTS (OFDSALS TO LIGHT CRITICAL CRITICAL FOR PERMIT - 11 (FORM CHOLLECE | G BACK TO A DIFFERENT RESERV | 018. | |
| NELL SAS X | OTHER• | | O.F | Agreement Nume |
| Z. Nome of Operator | | 12 (12 L L L L L L L L L L L L L L L L L L | 1 ' 1 | or Lease Name |
| Minerals, Inc. | | 111 | | o "34" State Com |
| 3. Address of Operator D. O. Boy 1320. Hobbe | Now Movico 88240 | Sill Sill of | 9. Well N | ,o. |
| P. O. Box 1320, Hobbs | , New Plex ICU 60240 | | | and Pool, or Wildest |
| 4. Lecation of Well UNIT LETTER | 1650 FEET FROM THE South | OIL CONC 660TA | FEET FROM Unde | signated Morrow |
| THE East LINE, SECTI | ON 34 TOWNSHIP 21 | S RANGE 34E | HMPM. | |
| | 15. Elevation (Show wheth | her DF, RT, GR, etc.) | . 12. Count | ~ |
| | 3651 GL, 36 | 71 DF | l Le | :a (|
| 16. Check | Appropriate Box To Indicate | Nature of Notice Ren | art or Other Data | |
| PERFORM REMEDIAL WORK | NTENTION TO: | REMEDIAL WORK | SEQUENT REPOR | ALTERING CASING PLUG AND ABANDONMENT |
| PULL OR ALTER CASING | CHANGE PLANS | CASING TEST AND CEMENT J | · 1757 | Г |
| OTHER | | | | |
| 17. Describe Proposed of Completed Opwork) SEE RULE 1103. | erations (Clearly state all pertinent o | letails, and give pertinent date | s, including estimated o | late of starting any propos |
| 6½" hole. Se Class "H" w/. WOC 24 hrs. | an 2543' of 4½", 13.3#, t liner at 13,279'. To 8% Halad 22 plus .4% CF Drilled out cement to 1 cement to top of liner | p of liner at 10,72 R-2 and 5# KCL/sx. 3,188'. Tested line | 8'. Cemented w Plug down at 3 | vith 500 sx. 3:40 p.m. 9-3-79. |
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| | | | | |
| . I hereby certify that the information | above is true and complete to the best | t of my knowledge and belief. | | |
| 4/1// | 1 10 77 | President | | September 19, 197 |
| wer / / MAAJ IV | 7 /WV Julyin 1 | co lucilo | DATE | /CP4CHDC1 13, 13, |

SUPERVISOR DISTRICT

SEP 24 1979

CONDITIONS OF APPROVAL, IF ANYI

| NO. OF COMES PECCEVED | | | | | Form C-103 |
|-----------------------------------------|---------------|---------------------------------|---------------------------------|------------------|---------------------------------------------|
| DISTRIBUTION | | | | | Supersedes Old C•102 and C•103 |
| SANTA FE | | NEW WEXICO OIL | . CONSERVATION COMMIS | SION | Effective 1-1-65 |
| FILE | | | | | Cha Indianta Tourist |
| U.5.G.S. | | | | | State X Fee |
| LAND OFFICE | | | | ' | State (A) Fee S. State Oil & Gas Lease Ro. |
| OPERATOR | | | | | E-9659 |
| | ו אפטייווצ | NOTICES AND REPORT | IS ON WELLS | | |
| LOO HOT USL THIS FOR | APPLICATION | ALS TO THE CHIEF THE CA | しかしょん じみくち そう み ひまどじをなだれて RE! | \$ FRYOIR. | 7. Unit Agreement Name |
| O'L GAS WILL | X | OTHER- | | | |
| 2. Name of Operator | | | ECEIVED | | 6. Form of Lease Name |
| Minerals, Inc. | | | | <u>[]</u> | Llano "34" State Con |
| | Hobbs, 1 | New Mexico 88240 | JUL 1 3 1979 | | 1 |
| 4. Lecution of Well | | Ļ | .// | | 10. Field and Fool, or Wildest |
| UNIT LETTER | 16 | 650 FERT FROM THE SE | Hthons Tryation 660s | SION FEET FROM | Undesignated Morrow |
| r - | • | | SANTA FE | | |
| THE East | HE. SECTION | 34 TOWNSHIP | Z15 RANGE | 34E NMPM. | |
| mmmm | immi | 15 Floretten (Sleve u | hether DF, RT, GR, etc.) | | 12. County |
| | | 3651 GL, 36 | | | Lea |
| 711111111111111111111111111111111111111 | Chack Yen | | ate Nature of Notice, I | Papart or Orli | |
| | | INTION TO: | | - | REPORT OF: |
| | | | · | | |
| PERFORM REMEDIAL WORK | • | PLUG AND ABANDO | N REMEDIAL WORK | | ALTERING CASING |
| TEMPGRARILY ABANDON | | | COMMENCE DRILLING OF | PNS. | PLUG AND ABAHDONMENT |
| PULL OR ALTER CASING | | CHANGE PLANS | CASING TEST AND CEME | X APL THE | |
| • | | | OTHER | | |
| OTHER | | | _[] | | |
| 17. Describe Proposed of Com | pleted Operat | ions (Clearly state all perting | ent details, and cive pertinent | Jates, including | estimated date of starting any prope |
| work) SEE RULE 1103. | | | B F | | |
| | | • | • | | |
| 7-6-79 Ran 251 | joints, | 11,200' of 7-5/8", | 29.7# S-95 casing | in 9½" hole | e, set at 11,200'. |
| | | | | | ige (11,200' - 8,202') |
| | | | | | followed by 300 sx. |
| | | | | | Plug down and open |
| | | | 6 hrs., circ. 50 sx | | |
| | | | cmt. w/.6% Halad-22 | | |
| | | | 3% Halad-22, 4% CFR- | | |
| | | | lippled up, installe | | t 5,250' by tempera- |
| | | | 250 PSI 30 mins C | | |
| | | | OK. Job completed | | |
| . 1634 311 | HI 011 1 | .1,0 101 00 11111134 - | on complete | 5 5. | ancuu. |
| , • | | | | | · |
| | | | • | | |
| | | | | | |
| | | | | | |
| | | • | | | |
| | | | | | |
| 8, I hereby certify that the infe | irmetion abov | e is the and complete to the | best of my knowledge and beli | cf. | |
| | N T | TADA | President | | July 10, 1979 |
| IGHED Jona 4 | 4 | MVV7 virue | i i co lucile | | DATE UUTY TU, 197 |
| | | 11.10 | | | |
| (/ | (son) | Steph S | SUPERVISOR DIS | TRICI | . UL 1 1069 |

COMPLETIONS OF ADPROVAL IF ANVI

NEW MEXICO OIL CONSERVATION COMMISSION

Supersedes C-128

John

676

3239

WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-65 All distances must be from the outer boundaries of the Section perator Llano "34" State Com. Minerals, Inc. Section Township Init Letter 21 South 34 East 34 Lea Actual Footage Location of Well: South 1650 660 East feet from the line and feet from the Ground Level Elev. Producing Formation Dedicated Acreage: 3651.3 Morrow Grama Ridge Morrow, East 320 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Communization If answer is "yes," type of consolidation ___ X Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION W.I. = Minerals, et al I hereby certify that the information con-(Same as Lease E-9659) tained herein is true and complete to the R.I. = State of N. M.best of my knowledge and belief. President Minerals, Inc July 25, 1979 DIVIS SANTA FE I hereby certify that the well location W.I. = Minerals, et al (Same as Lease K-3592) R.I. = State of N. M.Date-Surveyed 1. February 16, 1979 Registered Professional Engineer and/or Land Surveyor

500

1000

1320 1680

1980

| NO. OF COPIES ACCEIVED | <u> </u> | | | Form C-103 | |
|-------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|----------------------------------------|
| DISTRIBUTION | | | | Supersedes Old C-102 and C-10 | |
| SANTA FE | | NEW MEXICO OIL CONSI | ERVATION COMMISSION | Effective 1-1-65 | |
| FILE | | | | | |
| U.5.G.5. | | | | 5a. Indicate Type o | Lease |
| LAND OFFICE | | | • | State X | Fee |
| OPERATOR | <u> </u> | ļ | | 5. State OII & Gas E-9659 | Lesun No. |
| 100 HOT USE THIS FO | SUNDR | LY NOTICES AND REPORTS ON DESIGN TO CHILL OR TO DELENG OF PLUG BY | WELLS ACK TO A DIFFERENT RESERVOIR. | | |
| I. OIL AS | X | OTHER. | | 7. Unit Agreement | Name |
| 2. Name of Operator | | , | ' | 8. Farm or Lease 1 | lane |
| Minerals, In | c. | : | | Llano "34" | State Com |
| 3. Address of Operator | | | | 9. Well No. | ······································ |
| P. O. Box 13 | 20, Hot | obs, New Mexico 88240 | | 1 1 | |
| 4. Location of Well | | | | 10. Field and Pool, | or Wildcat |
| UNIT LETTER | | 1650 FEET FROM THE South | _ LINE AND FE | Undesignated | Morrow |
| THE <u>East</u> | INE, SECTIO | DN 34 TOWNSHIP 21S | RANGE 34E | _ нмрм. | |
| mmmm | mm | 15. Elevation (Show whether L | OF. RT. GR. etc.) | 12. County | 444444 |
| | | 3651 GL, 3671 | | Lea | |
| 16. | | Appropriate Box To Indicate Na | ature of Notice, Report | or Other Data | |
| NOTIC | CE OF IN | ITENTION TO: | SUBSE | QUENT REPORT OF: | |
| PERFORM REMEDIAL WORK | 1 | PLUG AND ABANDON | REMEDIAL WORK | ALTERING | CASING |
| TEMPORARILY ABANDON | Į | | COMMENCE DRILLING OPNS. | PLUG AND | ABANDONMENT |
| PULL OR ALTER CASING | J | CHANGE PLANS | CASING TEST AND CEMENT JOB | للا | _ |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | OTHER | ··· | L |
| NAME AND ADDRESS OF THE PARTY | ···· | L] | · | | |
| 17. Describe Proposed or Cowork) SEE RULE 1103. | mp O | Clearly state all pertinent detail | ils, and give pertinent dates, in | reluding estimated date of sta | rting any propose |
| | | | | | |
| 6-9-79 Ran 18 | 92 3010 | 5773' 01 173/4", 45. | 5# J-55 casing in 1 | .4-3/4" hole, set a | t 5//3'. |
| DA 10 | Ol "at 3 | 3863 Jement 1 st stage | with 1000 sx. Lite | wate cmt. containi | ng 6# |
| salt, | 13#CDN | sonite & 2" Wodele per s | x. followed by 300 | sx. Class "C" With | 本" Floce ie |
| per s: | X. Ulr | EUVatron 300 SX WOC 7½ h | rs., open DV tool & | cmt. second stage | WITH DIAM |
| 4400 : | SX. LIU 10.20 5 | eWate pont. Vootaining 15# | Sait, 3# Glisonite | : & ¼" Flocele per | SX. Plug |
| CSU | 10.20 p | .m. 6-9-79. Cement circu | nateu. Wuc 24 Mrs. | float and con sho | e tested |
| csg. | to 500 | psi - 30 min. No pressur psi - 30 min. No pressur | e drop. Dila. out | stad 6-12-70 Dril | e, lesteu lina |
| ahead | | ps 1 - 50 mm. No pressur | e drop. oob compre | ted 0-12-79. Di [1 | i ing |
| uncuu | • | | • | | • |
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| 18. I hereby certify that the is | nformation | shove is true and complete to the best of | my knowledge and belief. | | |
| X// | o D . | 11/2 | • | | |
| SIGNED Lonal | 1 | La Tarly Time | President | • June | 14, 1979 |
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| \bigcap | | Strong | RVISOR DISTRIC | T | N 1070 |
| APPROVED BY | rry | Ser/100 HILL | TIAIDOU DIDUINO | TI DATE NIN 9 | U 13/3 |
| CONDITIONS OF APPROVAL | TRANY: | | · · · · · · · · · · · · · · · · · · · | | |
| <i>V</i> | • | | | | |

| DISTRIBUTION | | | | Supersedes Old |
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| SANTA FE | NEW DEVICO | OIL CONSERVATION | COMMISSION | C-102 and C-103 |
| FILE | NEW MEXICO | OIL CONSERVATION | COMMISSION | Effective 1-1-65 |
| ···· | } | | | 50. Indicute Type of Lease |
| LAND OFFICE | j | | | State X Fee |
| CPERATOR | | | 14 | 5. State Oil & Gua Lease No. |
| CFERATOR | J | | | E-9659 |
| IDO MOT USE THIS CONVICTOR OFF | RY NOTICES AND REPORTED TO SECUL | | RENT RESERVOIR. | |
| I. | | ECEIVED | | 7. Unit Agreement Name |
| With Well X | OTHER- | | W II | |
| 2. Name of Operator | 16 | JUN 7 - 1979 | | 6. Ferm or Lease Hame |
| Minerals, Inc. | | \ 1 | 4010N | Llano "34" State Com. |
| P. O. Box 1320, Hobbs | | CONSERVATION DIV | VISION - | 9. Well No. |
| P. O. Box 1320, Hobbs | New Mexico 8824 | SANTA FE | | 1 |
| | | | | 10. Field and Pool, or Wildest |
| UNIT LETTER | 1650 FEET FROM THE | South LINE AND | 660 FEET FROM | Undesignated Morrow |
| Fact | | • | | |
| East | 34 DN TOWNSHIP | 21S RANGE | 34E" NMPM. | |
| | | · | , | |
| | ((((((((((((((((((((| ow whether DF, RT, GR, el | (c.) | 12. County |
| | 3651 GL, | 3671 DF | | Lea |
| Check / | Sppropriate Box To In | dicate Nature of No | tice, Report or Oth | er Data |
| NOTICE OF IN | | 1 | SUBSEQUENT | |
| · | | | ., | |
| PERFORM REMEDIAL WORK | PLUG AKO ABA | HOON REMEDIAL WOR | 1K | ALTERING CASING |
| TEMPORARILY ABANDON | • | COMMERCE DRI | ILLING OPNS. | PLUG AND ABANDONMENT |
| PULL OR ALTER CASING | CHARGE PLANS | S CASING TEST A | IND CEMENT JOB | _ |
| | | OTHER | | |
| OTHER | | | | |
| 17. Describe Proposed or Completed Ope | | | | |
| Spudded 20" hole at Ran 1176' of 16", 6 followed with 200 s at 1:45 a.m. May 24 psig for 30 minutes | 55#, H-40 casing ar sacks Class "C" cor I, 1979. Circulate | nd cemented at 120 ntaining 2% calcin ed 400 sacks. Af | um chloride per : ter WOC 24 hours | sack. Plug down |
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| 18. I hereby efficie that the information a | buy a fue and complete to | the best of my knowledge | and belief. | |
| V 1// - | 71/2 | _ | | |
| JENET Jonald. | Jant | Presi | ident | May 31, 1979 |
| | | | | |
| <i>(</i> | | • | | 4.4070 |
| CCHOYED BY LEENING | Ukan / | SUPERVISOR | DISTRICT I | DATE 111N 4 1979 |
| CONDITIONS OF APPROVAL, IF ANY | | | | |
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| DISTRIBUTION | T NEW | HENICO OIL CONS | ERVATION COMMISSION | , | | - 2000 |
| SANTA FE | NEW NEW | MEXICO OIL CONS | EKYATION COMMISSION | Į. | Form C-101 Revised 1-1- | 65 |
| FILE | - | | | | 5A. Indicate | e Type of Lease |
| U.S.G.S. | -+ | | | | STATE | |
| LAND OFFICE | - | | | | <u> </u> | & Gas Lease No. |
| OPERATOR OPERATOR | - | | | | | 659 |
| OPERATOR | | | | | irinn | mmmin |
| APPLICATIO | VI COD DEDIVIT TO | DOUL DEEDEN | OD DI HO DACK | | IIIIII | |
| APPLICATIO | N FOR PERMIT TO | DRILL, DEEPEN | , UR PLUG BACK | | 7 Unit Am | eement Name |
| 1a. Type of work | | | | | 7. Ont Agre | sement Mande |
| DRILL X | | DEEPEN 🗌 | PLUG B | ACK | | · |
| b. Type of Well | • | | | | | ease Name |
| WELL WELL | OTHER | | ZONE X MULT | ZONE | | State "34" Com. |
| 2. Name of Operator | | | | | 9. Well No. | |
| Minerals, Inc. | | | | | | _1 |
| 3. Address of Operator | | | | | 10. Field on | nd Pool, or Wildcat |
| P. O. Box 1320, Ho | obbs, New Mexico | o 88240 | | | Undesi | gnated, Morrow |
| 4. Location of Well | * | 1.650 | FEET FROM THE South | LINE | 777777 | |
| | | ATED | PEEL PROM THE OUT OF | | | |
| AND 660 FEET FROM | THE East LIN | E OF SEC. 34 | TWP. 215 RGE. 34 | Е нмрм | | |
| | imititimi | IIIIIIIIII | mmmi | m | 12. County | HIIIIII |
| | | | | | Lea | |
| | HHHHH | HHHHHH | <i>HHHHHH</i> | HHH | 777777 | HHHHH |
| | | | | | | |
| HHHHHHH | <i>HHHHH</i> | HHHHH | 19. Proposed Depth | A. Formation | <u>, , , , , , , , , , , , , , , , , , , </u> | 20. Rotary or C.T. |
| | | | 13,400' | Morrow | , | |
| 21. Elevations (Show whether DF, | RT etc.) 21 A Kind | & Status Plug. Bond | 21B. Drilling Contractor | PIOT FOR | | Rotary Date Work will start |
| · · | | | _ | | | |
| 3651 GL, 3671 DF, | 30/3 KUD I | 31anket | <u> Moranco</u> | · | i May | 15, 1979 |
| 23. | P | ROPOSED CASING AN | ND CEMENT PROGRAM | | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOO | T SETTING DEPTH | SACKS OF | CEMENT | EST. TOP |
| | | | | | | |
| 20" | 16" | 65# | 400' | 45 | | Circulate (DV T |
| 14-3/4" | 10-3/4" | 45.5# | 5,700' | 240 | | Circulate(DV To |
| 9-1/2" | 7-5/8" | 33.7# | 11,200' | 60 | | 8,000' (DV Tool |
| 6-1/8" | | k 23# | 13,400' | <u>'</u> 15 | U | 'Circulate |
| * | ' 5-1/2" Line | | | | | |
| · | 5-1/2 Line | | Top at 11,000 | • | | |
| | · | | , | • | | |
| BLOWOUT PREVENTE | · | ee attached so | , | • | | |
| | ER PROGRAM: (Se | | hematic) | | | |
| Open hole logs w | ER PROGRAM: (Se | n the surface | , | | D, with | the Gamma Ray |
| | ER PROGRAM: (Se | n the surface | hematic) | | D, with | the Gamma Ray |
| Open hole logs w | ER PROGRAM: (Se | n the surface | hematic) | | Ɗ, with | the Gamma Ray |
| Open hole logs w portion brought | ER PROGRAM: (Se will be run from back to surface | n the surface | chematic) | | D, with | the Gamma Ray |
| Open hole logs w | ER PROGRAM: (Se will be run from back to surface | n the surface | chematic) | | D, with | the Gamma Ray |
| Open hole logs w portion brought WOC time on 10-3 | ER PROGRAM: (Se will be run from back to surface 3/4" and 7-5/8" | n the surface e. casing will b | chematic) casing point (400) be 24 hours. | | D, with | the Gamma Ray |
| Open hole logs w portion brought WOC time on 10-3 OCD Order No. R- | ER PROGRAM: (Se will be run from back to surface 3/4" and 7-5/8" -5996 approved t | n the surface e. casing will b | chematic) casing point (40) e 24 hours. ex location. |)') to T | | · |
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| Open hole logs we portion brought WOC time on 10-3 OCD Order No. R-Acreage dedicati IN ABOVE SPACE DESCRIBE PRIVE ZONE. GIVE BLOWNING TREVENT Thereby certify that the information of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State of the space for State | er PROGRAM: (Sevill be run from back to surface 3/4" and 7-5/8" -5996 approved to hearing before hearing before hearing before the program is any surface and the state Use) | the surface casing will be this unorthodo ore OCD for a proposal is to deepen of my Pre | chematic) casing point (40) pe 24 hours. IX location. non-standard prof | O') to T | Date | Dending. AND PROPOSED NEW PRODUCT May 2, 1979 |

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Minerals, Inc. "34" Com. Llano State Section Township 'nit Letter 21 South 34 34 East Lea Actual Footage Location of Well: 1650 660 East South feet from the line and feet from the Ground Level Elev. Producing Formation Undes ignated Dedicated Acreage: 320 * 3651.3 Morrow **SKAMAXRÄDEKSX** 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 interests of all owners been consolidated by communitization, unitization, force-pooling. etc? * Communitization of Two State Royalty If answer is "yes," type of consolidation Leases (K-3592 & E-9659) is Pending. Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION * Acreage Dedication K-3592 I hereby certify that the information con-W.I. = Minerals, et al Hearing for a Nontained herein is true and complete to the standard Proration (Same as Lease E-9659) best of my knowledge and belief. Unit is Pending. R.I. = State of N. M.President Minerals, 1071 May 2, 1979 CONSERVATI I hereby certify that the well location E-9659 shown on this plat was platted from field W.I. = Minerals, et al (Same as Lease K-3592) R.I. = State of N. M.knowledge and belief. Date Surveyed February 16, 1979 Registered Professional Enginee and/or Land Surveyor John 67

2000

1 500

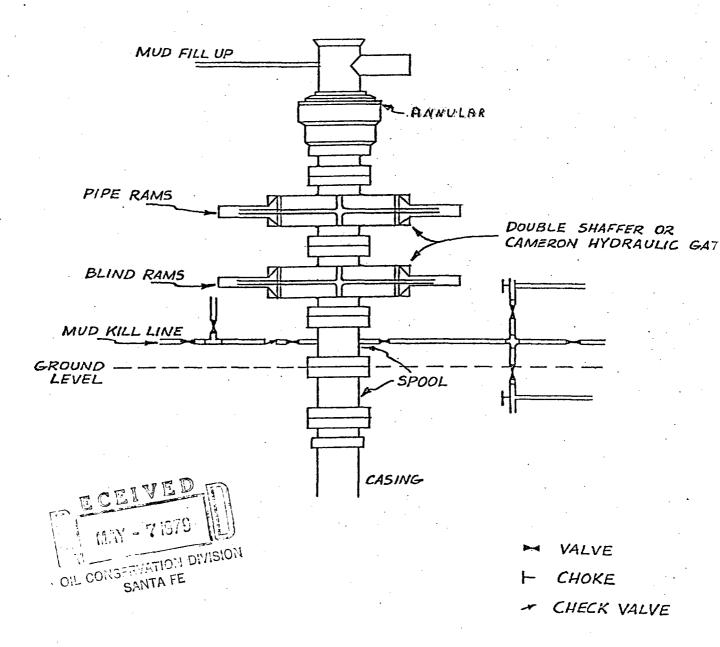
1000

660

1320

16 50

BLOW-OUT PREVENTER SCHEMATIC



MINERALS, INC.

LLANO STATE "34" COM. NO. 1

1650' FSL & 660' FEL, SEC. 34, T21S, R34E

LEA COUNTY, NEW MEXICO

| (A) I | Petroleum Information. | | | © Copyrights | nd Makradychan Probibmus |
|-------|--------------------------|---------------|--------|--------------|---------------------------------------------------|
| COUNT | Y LEA HILD Gr | ama Ridge | | STATE NM | - |
| OPR | MINERALS, INC. | <u> </u> | | API 30-1 | 025-26318 |
| NO | 1 Juase Llano "34" Sta | te Com. | | MAP | |
| | Sec 34, T21S, R34E | | | co osa | |
| | 1650' FSL, 660' FEL of | Sec | | 11- | 2-25 |
| - · · | 18 mi SE/Halfway | SPI | 5-21-7 | 9 (MP 10- | 9-79 |
| (SG | | WILL CLASS: 1 | | | L&S |
| | 16" 1200' w/1300 sx | FORMATION | DATUM | FORMATION | DATUM |
| | 10 3/4" 5773' w/700 sx | ; | , | | |
| - * | ,7 5/8" 11,200' w/1500 s | X | | | |
| . , | 4 1/2" lnr 10,736-13,27 | 91 | | | |
| | w/500_sx | 15 44 5 | | | / - |
| | | тр 13,280' | (BRNT) | PBD 13, 1881 | |
| 110 | IP (Morrow) Perfs 12,82 | | | | |
| | based on 24 hr test thr | u 16/64" ch | k. GOR | 28,826; g | ty (NR); |
| | CP Pkr; TP 4825# | | ines | | i |

CONTR Moranco #1

OPRSELEY 3651 GT.

PD 13,400' RT

ILLEGIBLE

F.R. 5-14-79 (Morrow) 5-22-79 Drlg 823' Drlg 3852' 5-30-79 6-13-79 Drlg 6297' Drlg 10,759' 1m, sh & cht 6-26-79 7-10-79 Drlg 11,300' 7-17-79 Drlg 11,540' 7-31-79 Drlg 12,278' DST (Strawn) 11,590-792', open 3 hrs w/Good Blow, GTS in 1 hr 5 mins (during FF) @ 50 MCFPD, rec 2000' WB + 630' GCD (Sampler rec .1 CFG + 300 cc's oil + 1020 cc's wtr) 2 hr ISIP 7062#, FP 958-1201#, 6 hr FSIP 6932#, HP 6839-6839# 8-7-79 Drlg 12,570' DST (Atoka) 12,176-278', open 2 hrs 55 mins, rec 3000' WB + 200' GCM, 1 hr 30 min ISIP 6578#, FP

11-2-25 NM

Grama Ridge 1 Llano "34" State Com. Page 2 Sec 34, T21S, R34E _____

Continued

1351-1463#, 5 hr FSIP 6820#, HP 7436-7399#, BHT

^{.-.2}78 deg

8-22-79

in Drlg 13,109' 🐵

TD 13,280'; PBD 13,188'; P/Test

Perf (Strawn) 11,712-714', 11,717-719', 11,723-

<u>_725', 11,730-736', 11,742-744', 11,746-752', 11,759-</u>

761', 11,770-772', 11,784-786' w/2 SPF

'Acid (11712-786') 46 Bbls (20%)

Flwd @ 372 MCFGPD + 16 BO/24 hrs (11,712-786')

हरावर के 🖺 Acid (11,712-786'). 15,00u gals 📉 🚌 🧺 🤫

Swbd Dry (11,712-786') #2283 @ 1924 47

Sqzd 11,712-786' w/200 sx & DOC to 13,188'

Perf (Morrow) 12,824-838', 12,986-999', 13,002-

ILLEGIBLE

10-10-79

Continued

004', 13,008-018', 13,020-026', 13,033-036', 13,038-

044', 13,165-170' w/2 SPF

Natural

Flwd 140 BO (gty 51) + Gas @ 3980 MCFPD 24 hrs

thru 16/64" chk TP 4825# (12,824-13,170')

11-5-79

TD 13,280'; PBD 13,188'; Complete

LOG TOPS: Salt 1856', Base Salt 3810', Yates 4104',

Seven Rivers 4459', Delaware Sand 5498', Bone Spring 8348', Strawn 11,626', Atoka 11,908',

Morrow 12,713', Barnett 13,235'

Rig Released 9-6-79

11-10-79

. COMPLETION ISSUED

11-2-25 IC 30-025-70160-79

| Petroleum Information. | | | | | | | |
|------------------------------------|----------------|-----------|--------------|---------------------------|--|--|--|
| COUNTY LEA FILLO GI | rama Ridge | | STATE NM | ood Reproduction Problems | | | |
| PR MINERALS, INC. | | | API30-02 | 5-26318 | | | |
| o 1 HASE Llano "34" Stat | te Com. | | MAP | | | | |
| Sec 34, T21S, R34E (O-OR.) | | | | | | | |
| 1650 FSL, 660 FEL of Sec 9-4-33 NM | | | | | | | |
| 18 mi SE/Halfway | RE SP | o 11-30- | 79 Km 12- | 24-79 | | | |
| SC | WELL CLASS: IN | IT DX FIN | DG LSE. CODE | E | | | |
| 16-12 00-13 00 sx | FORMATION | DATUM | FORMATION | DATUM | | | |
| 10 3/4-5773-700 sx | | | | | | | |
| 7 5/8-11,200-1500 sx | | | | | | | |
| 4 1/2-lnr-10,736-13,279-500 |) sx | | | | | | |
| | | | | | | | |
| | 10 13,280 | BRNT) | PBD 13,188 | | | | |
| IP (Morrow) 12,824-13,170 I | F 3425 MCFC | PD. Po | t based on | 24 hr | | | |
| test thru 13/64 chk. GOR | (NR); gty (| (Gas) NR | ; (Cond) (| NR); CP | | | |
| Pkr; TP 2800 | | | | | | | |
| | | | | | | | |
| ÷ | | | | | | | |
| CONTR | PRS 1114 3651 | GI. | sub-s | | | | |

F.R.C. 9-26-81 OWWO PD 13,188 WO (Morrow) (Orig. Comp. 10-9-79 thru (Morrow) Perfs 12,834-13,170, OTD 13,280, OPB 13,188) 9-21-81 TD 13,290; PBD 13,188; Complete Acid (12,824-838) 2500 gals Perfs would not flow (12,824-838) Acid (12,986-13,170) 5700 gals Flwd 430 MCFGPD + 7 BO + 24 BW in 24 hrs, TP 95 (12,986-13,170)Perf (Morrow) 12,986-999, 13,002-004, 13,008-018, 13,020-026, 13,033-036, 13,038-044, 13,165-170 w/2 SPF Acid (12,986-13,170) 1000 gals 9-26-81 COMPLETION ISSUED

> 9-4-33 NM IC 30-025-70493-81

Submit to Appropriate
District Office
State Lease - 5 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105 Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St. Santa Fe. NM

WELL API NO. 30-025-34948 5. Indicate Type of Lease

| DISTRICT II P.O. Drawer DD. Artesi | a. NM 88210 | | | 40 Pached Inta Fe, | | 87505 | ı | 5 | . Indicate Typ | e of Lease | TE X | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|----------------------------|-----------------------------|----------|---------------|-----------|-------------------------|--------------------------------------------------|--------------|--------------|----------------------------|
| DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410 WELL COMPLETION OR RECOMPLETION REPORT AND LOG | | | | | | | | | . State Oil & 0 | | | FEE |
| | | R REC | OMPLET | ION REPO | ORT A | ND LO | OG . | | | | | PARTICIONE EN LA |
| 1a. Type of Well: | | | | | | | | 7 | . Lease Name | | | |
| DIL WELL b. Type of Completion: NEW WORK WELL OVER | O. Type of Completion: NEW WORK WORK DEEPEN BACK RESVR OTHER Grama Ridge East 34 State | | | | | | | | | | | |
| 2. Name of Operator 8. Well No. Nearburg Producing Company 1 | | | | | | | | | | | | |
| 3. Address of Operator 9. Pool name or Wildcat | | | | | | | | | | | | |
| 33.00 N A St., Bldg 2, Suite 120, Midland, TX 79705 Grama Ridge Morrow;East | | | | | | | | | | | | |
| 4. Well Location | | | | | | | | | <u>_</u> | | | |
| Unit Letter | H : 154 | 3 Fee | t From The _ | Nor | th | Li | ne and | 990 | Feet F | rom The | Ea | Line Line |
| Section | 34 | Town | ship 2 | :1S | Range | 3 | 4E | NM | PM . | | Lea | County |
| 10. Date Spudded | 11. Date T.D. Reach | ied | 12. Date Co | mpl. (Ready t | o Prod.) | | 13. Eleva | tions (DF | RKB, RT, GR | etc.) | 14. Elev | . Casinghead |
| 03/07/00 | 04/28/00 | İ | 06/09 | 9/00 | | 1 | 3689' G | L | 3706' KB | | | |
| 15. Total Depth 13,500' | 16. Plug Bar | ck T.D. | | 17. If Multiple Many Zor | | low | | Intervals Orilled By | Rotary Tools | 2 | Cable To | oois |
| 19. Producing Interval(s | | | om. Name | | | | | | ' | 20. Was Dire | ctional | Survey Made |
| 13,134' - 13,156' | | | | | | | | | | | No | |
| 21. Type Electric and Of DLL/CNL/LDT/GR | - | | | | | | | | 22. Was Wel | Cored [| Vo | |
| 23. | | CAS | SING RE | CORD | (Repo | rt all | strings | set in | well) | | | |
| CASING SIZE | WEIGHT LE | 3/FT. | DEPTH | | | DLE SIZ | | CE | MENTING RI | ECORD | AN | MOUNT PULLED |
| 13-3/8" | 68# | * | | 96' | | 17-1/2 | | | 872 sx | | | NA NA |
| 9-5/8" | 36 & 40 | | | 63' | | 12-1/4 | | | 1903 sx | | ┷ | NA NA |
| 7" | 23, 26 & | 29# | 112 | 250' | | 8-3/4" | | | 180 sx | | | NA NA |
| | | | | | | | | | | | | |
| 24. | <u></u> | LINE | R RECO | RD | L | | | 25. | TU | BING RE | CORD | |
| SIZE | TOP | | TTOM | SACKS CE | MENT | SC | REEN | - | SIZE | DEPTH | | PACKER SET |
| 4-1/2" | 11,018' | | 3,500' | 350 s | × | | | | 2-3/8 | | | 13,055' |
| | · · · · · · · · · · · · · · · · · · · | 1 | | | | | | | | | | |
| 26. Perforation record | d (interval, size, and | number | r) | | | 27. A | CID, S | HOT, F | RACTURE | CEMENT | r, sql | JEEZE, ETC. |
| 40 4041 40 4501 | LE JODE (440 h. | | | | | | TH INTE | | | AND KIND | | |
| 13,134' - 13,156' | 5 JSPF (110 no | nes) | | | | 13 | ,134' - 1 | 3,156' | | | | |
| | | | | | | | | | ļ | | | |
| | | | | | | <u> </u> | | | | | | |
| 28. | | | | PRODUC | | | | | | | | _ |
| Date First Production 06/09/00 | Flow | | on Method (Fi | | | | | ump) | | Well Sta | | od. or Shut-in) ducing |
| Date of Test 06/16/00 | Hours Tested 24 | C | hoke Size 9/64" | Prod'n Fe Test Peri | | Oil - Bb 2 | L. :0 | Gas - M 123 | | Vater - BbL. | | Gas - Oil Ratio 61950:1 |
| Flow Tubing Press. 5000 | Casing Pressure | | alculated 24- lour Rate | Oil - Bbl | | G: | 1239 | Wat | er - BbL. O | Oil Grav | ity - API - | · (Corr.) 52.5 |
| 29. Disposition of Gas (Sold | 29. Disposition of Gas (Sold, used for fuel, vented, etc.) Test Witnessed By | | | | | | | | | | | |
| 30. List Attachments C-104, Deviations and Logs | | | | | | | | | | | | |
| 31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief | | | | | | | | | | | | |
| 31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Printed Printed Name Kim Stewart Title Regulatory Analyst Date 06/27/00 | | | | | | | | | | | | |

INSTRUCTIONS

form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| | Sc | outheastern I | New Mexico | | No | orthwestern | New | Mexico | |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------|------------------------|---------------------|-------------------------------------|------------------------------------|----------|--|
| T. Anhy | <i>'</i> | 1755.0 T . (| Canyon | T. Ojo | Alamo | T. | Penn. | "B" | |
| T Salt | | T | Strawn 116 | 84.0 T Kirtls | and_Enii | T back | Donn | HCH | |
| B. Salt | | 3870.0 T. | Atoka 119 | 66.0 T. Pictu | ured Cliff | fs T | Penn. | "D" | |
| T. Yates | S | 3925.0 T. | Miss | T. Cliff | House | T | Leady | rille | |
| T. 7 Riv | ers | T. I | Devonian | T. Men | efee | т. | Madis | on | |
| T. Quee | en | T. | Silurian | T. Poin | t Lookoi | ut T. | Penn. "D" Leadville Madison Elbert | | |
| i. Gray | ourg _ | 1.1 | Montoya | i . man | cos | | . McCra | acken | |
| T San | Andres | T. : | Simpson | T. Gallı | un | T | Ignaci | io Otzte | |
| T. Glori | eta | T. I | McKee Ellenburger Gr. Wash | Base G | reenhor | n T. | Granif | te | |
| T. Padd | lock | T. I | Ellenburger | T. Dak | ota | T. | · | | |
| T. Bline | bry | T. (| Gr. Wash | T. Morr | rison | T. | | *** | |
| I. lubb |) | 1. | Delaware Sand <u>56</u> | <u> 13.0</u> . OQI | ITO | ·l. | | | |
| T. Drink | card | Τ. | Bone Springs 83 | 95.0 T. Entra | ada | T. | | • | |
| T. Abo | | T. , | Morrow 120 | <u>90.0</u> T. Wing | gate | T. | · | | |
| T. Wolfd | camp _ | 12240.0 T. | Morrow 120 | T. Chin | ıle | Т | | | |
| T. Penn | າ ເ | T. | | T. Perr | main | T | · | | |
| T. Cisco | O (Bough | ı C) T. , | | T. Peni | n. "A" 🔔 | T | | | |
| | | | OIL OR GAS | SANDS OR | ZONES | 3 | | | |
| No. 1, fi | rom 127 | 730 to | 13160 | No. | 3, from | | to . | | |
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| , | | | IMPORTA | | | | | ••••• | |
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| | | | inflow and elevation | | | | | | |
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| No. 1, f | rom | ****** | to | •••• | fe | et | | | |
| No. 1, f | rom | ****** | | •••• | fe | et | | | |
| No. 1, f | rom | | to | | fe | eet eet eet | | | |
| No. 1, f | rom | LITHOLO | to | (Attach add | fe fe fe itional sl | eet eet eet heet if necess | :ary) | •••• | |
| No. 1, f | rom | LITHOLO | to to to | | fe | eet eet eet | :ary) | | |
| No. 1, fr No. 2, fr No. 3, fr | rom rom rom | LITHOLO | to | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
| No. 1, fr No. 2, fr No. 3, fr | rom rom rom | LITHOLO Thickness in Feet | to | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
| No. 1, fr No. 2, fr No. 3, fr | rom rom rom | Thickness in Feet | to to | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
| No. 1, fr No. 2, fr No. 3, fr From | rom rom To 5613.0 8395.0 | Thickness in Feet 1713.0 2782.0 | to to | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
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| No. 1, fr No. 2, fr No. 3, fr From 3900.0 5613.0 8395.0 11240.0 | rom rom To 5613.0 8395.0 12240.0 11684.0 | Thickness in Feet 1713.0 2782.0 2845.0 444.0 | toto | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
| No. 1, fr No. 2, fr No. 3, fr From 3900.0 5613.0 8395.0 11240.0 11684.0 | rom rom To 5613.0 8395.0 12240.0 11684.0 11966.0 | Thickness in Feet 1713.0 2782.0 2845.0 444.0 282.0 | toto | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
| No. 1, fr No. 2, fr No. 3, fr From 3900.0 5613.0 8395.0 11240.0 11684.0 11966.0 | rom rom To 5613.0 8395.0 12240.0 11684.0 11966.0 12090.0 | Thickness in Feet 1713.0 2782.0 2845.0 444.0 282.0 124.0 | toto | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
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| No. 1, fr No. 2, fr No. 3, fr From 3900.0 5613.0 8395.0 11240.0 11684.0 11966.0 | rom rom To 5613.0 8395.0 12240.0 11684.0 11966.0 12090.0 | Thickness in Feet 1713.0 2782.0 2845.0 444.0 282.0 124.0 | toto | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |
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| No. 1, fr No. 2, fr No. 3, fr From 3900.0 5613.0 8395.0 11240.0 11684.0 11966.0 | rom rom To 5613.0 8395.0 12240.0 11684.0 11966.0 12090.0 | Thickness in Feet 1713.0 2782.0 2845.0 444.0 282.0 124.0 | toto | (Attach add | fe fe fe itional sl | eet eet heet if necess | :ary) | •••• | |



PATTERSON DRILLING COMPANY LP

- A LIMITED PARTNERSHIP -

410 North Loraine Street • Midland, Texas 79701 (915) 682-9401 • Fax (915) 682-1565

May 18, 2000

Nearburg Producing Company 3300 N "A" St, Bldg 2, Ste 120 Midland, TX 79705

RE:

Inclination Report

Grama Ridge East 34 St #1

Sec 34; T-21-S; R-34-E

Unit H 1548/N 1990/E 30-025-34948

Gentlemen:

The following is an inclination survey on the above referenced well located in Lea County, New Mexico:

| 225' - 0.75 | 2603' - 3.00 | 3832' – 1.75 | 6494' - 0.50 |
|--------------|----------------------|--------------|---------------------|
| 436' - 0.50 | | | 6992' – 0.50 |
| | 2728' - 3.00 | 3925' – 2.00 | ***** |
| 712' – 0.50 | 2852' – 3.2 5 | 4019' — 1.50 | 7488' – 0.50 |
| 900' 0.50 | 3010' – 3.75 | 4080' 1.00 | 8078' – 1.00 |
| 1152' 1.00 | 3078' - 3.50 | 4204' - 1.00 | 8516' - 0.75 |
| 1341' – 2.00 | 3141' – 3.00 | 4358' - 0.50 | 9014' – 0.75 |
| 1468' 1.50 | 3203' - 3.00 | 4818' – 1.25 | 9509' — 0.75 |
| 1564' - 1.50 | 3266' - 2.25 | 5035' - 2.00 | 10001' 0.50 |
| 1754' - 1.00 | 3327' – 2.5 0 | 5128' - 2.00 | 10477' – 0.25 |
| 2006' - 2.50 | 3392' - 2.25 | 5222' - 1.50 | 11464' – 0.50 |
| 2101' - 2.25 | 3455' – 1.50 | 5346' 1.25 | 11828' – 1.50 |
| 2195' - 2.25 | 3549' - 1.50 | 5760' – 1.25 | 12280' - 1.00 |
| 2351' - 2.25 | 3645' - 1.25 | 6002' - 1.00 | |
| 2475' - 2.50 | 3729' - 2.50 | 6254' - 0.75 | |

Sincerely,

Kebecca

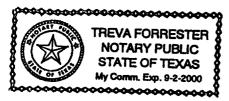
Rebecca A. Edwards **Administrative Assistant**

STATE OF TEXAS

COUNTY OF MIDLAND

Rebecca A. Edwards acknowledged the foregoing before me this 18th day of May 2000.

MY COMMISSION EXPIRES:



District I PO Box 1980, Hobbs, NM 88241-1980

District II 811 South First, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

5 Copies

AMENDED REPORT

| District IV 2040 South Pa | checo, San | ta Fe, NM 87 | 505 | | | Janu | a 1 C , | IAIM O | 303 | | | نا | AME | NDED REPORT |
|------------------------------|------------------------|----------------------------------|--------------|--------------|--------------------|-----------------|--------------------|--------------|-------------|-------------------|------------------------------|-----------------------------|------------------------|-----------------------------|
| 1. | R | EQUES | | | | | AND | AUT | HORIZ | <u> ATIO</u> | N TO TRA | | | |
| Nearburg P | roducing | Company | | perator nan | ne and A | Address | | | | | | ² OGRID 15742 | | f |
| 3300 North Midland, Te | A Street, | Building 2, | Suit | te 120 | | | | | | | 3 | Reason for I | | ode |
| , | | | | | | | | | | | - ! | NW | i iiiig O | 000 |
| 4 A | Pl Number | | | | | | 5 F | Pool Name | | L | | | 6 🖂 | Pool Code |
| 30 - 0 25 3 | | | Gr | ama Ridg | e Mom | ow; East | • | ooi raank | | | | | | 77690 |
| ⁷ Pro | operty Code | • | | | | | ⁸ Pro | perty Nam | ne | | | | 9 W | ell Number |
| | 25382 | | Gr | ama Ridg | e East | 34 State | | | | | | | | 1 |
| UI or lot no. | Surface Section | Location Township | 1_ | Range | Lot Idn | l Fa | et from | the | North/So | uth Line | Feet from the | T EastAt/a | ast/West line County | |
| H | 34 | 215 | | 34E | LOC IGI | , , | 154 | | No | i | 990 | Easuve | | Lea |
| 11 (| Bottom | Hole Lo | :ati | ion | | <u> </u> | | | | | | | | |
| UI or lot no. | Section | Township | | Range | Lot Idr | ı Fe | et from | the | North/So | uth Line | Feet from the | East/We | st line | County |
| | | | | | | | | | | | | | | |
| 12 Lse Code F | l . | ing Method C Flowing | ode | | | tion Date | 15 C- | 129 Perm | it Number | 1 | ⁶ C-129 Effective | Date | 17 C- | 129 Expiration Date |
| | <u> </u> | | | | | | | | | | | | | |
| 18 Transpor | | Transpo | 19 Tra | ansporter Na | | | 1 | 20 PO | D | ²¹ O/G | <u> </u> | ²² POD ULS | TR Loc | ation |
| OGRID | - | ınoco Inc. (| | and Address | | | - | | | | Coation 24 | and De | | |
| 21778 | 190 | 7 South De | etroi | t ` | | | 128 | 3257 | 26 | 0 | Section 34, | 1215, 83 | 4E 18 | nk battery |
| | 4, 4, 5 | 115a, OK 14 | 102 | | | | | 7 9 2 5 4. | | | | | | |
| | 32.94 | | | | | | | | | | ` | | | |
| 032109 |) [27 | 6&E Natura 77 Stemm | on F | reeway, S | ng & P Suite 70 | rocessing 00 | 128 | 325 | 727 | G | Section 34, | T21S, R3 | 4E Ta | nk Battery |
| | Da | allas, TX 75 | 207 | • | | | | 1 1/2 88 | . , | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | accurren | | | | | | * | | | | * | | | |
| | | | | | | | | | | | | | | |
| IV. Produ | uced W | ater | | | | | W. v. | | | books il. | | - | | |
| | POD (1 | | | 0.0 | D0.45 | T1-D | | POD UL | STR Locat | ion and D | escription | | | |
| 28257 | | | | 34, 1215, | K34E | Tank Batte | ery | | | | | | | |
| V. Well | | tion Dat | | ady Date | - | 27 Ti | <u> </u> | | 28 PB1 | Ď | ²⁹ Perfo | rations | T : | DHC, DC, MC |
| • | 7/00 | | | 09/00 | | - | 500' | | 13,4 | | 13,134' - | | | 5110, 50, MC |
| | ³¹ Hole Siz | e | | 32 C | asing & | Tubing Size | | | 33 | Depth Se | et . | | ³⁴ Sac | ks Cement |
| | 17-1/2" | | | | 13- | 3/8" | | | | 1296' | | | 8 | 72 sx |
| | 12-1/4" | | | | 9- | 5/8" | | | | 5763' | | | 19 | 903 sx |
| | 8-3/4" | | | | • | 7" | | | · | 11,250' | | | 1 | 80 sx |
| | 6-1/8" | | | | 4-1/ | 2" LR | | 1 | | 13,500' | | | 3 | 50 sx |
| VI. Wel | I Test [| Data | | | | | | | | | | | | |
| 35 Date N | | i | | very Date | | 37 Test Date | | 3 | * Test Leng | - | ³⁹ Tbg. Pr | | | ⁴⁰ Csg. Pressure |
| 06/09 | | 0(| 6/09 42 C | | | 06/16/00 |) | _ | 24 hrs | | 500 | - | _ | |
| 41 Choke 9/6 | | | 20 | | l | O | | | 1239 | | 1 | / F | | 46 Test Method Flowing |
| ⁴⁷ I hereby ce | ertify that the | e rules of the t the informat | Oil C | Conservation | | | | <u> </u> | (| | NSERVAT | ION DI | VISIO | |
| | | viedge and be | | 100 | | , | | | | • | | | | - · • |
| Signature: | Kin | ~5de | کمہ | <u> شەد</u> | <u>X</u> | | | Approve | d by: | <u>Chi</u> | in White | lian | 4_ | |
| Printed name | Kim S | tewart | | | | | | Title: | DICT | DICT | 1 SUPERV | | | |
| Title: Regu | ulatory An | alyst | | | | | | Approva | Date: | , ,, ,, ,, | 111 | 105 | Will little | |
| | /27/00 | | | Phone: | |) 686-8235 | | | | | | | | |
| 48 If this is a cl | hange of op | erator fill in th | ne O | GRID numb | er and n | ame of the p | revious | operator | | | | | | |
| | | . 0 | | | | | | 5.3 1 | 4 61 | | | | | |
| | Previous | s Operator Si | ynati | ul 6 | | | | -nnte | d Name | | | 1 | Fitle | Date |

District I PO Box 1980, Hobbs, NM 88241-1980

District II 811 South First, Artesia, NM 88210

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office 5 Copies

| District IV 2040 South Pa | | | | | anta Fe, | | | | | | | NDED REPOR |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------|--------------------------------------|-----------------------------------------------|-----------------------------|------------|----------------------------|-------------------|--------------------------------------|-----------------|-------------------|-----------------------------|
| <u>l. </u> | R | EQUES | | LLOWABL me and Address | E AND |) AUTI | HORIZ | <u>ATIO</u> | N TO TRA | NSPO 2 OGRID | | |
| Nearburg P 3300 North Midland, Te | A Street, | Building 2, | • | ine and Address | | | | | | 1574 | 2 | |
| wildiand, re | :Xa3 | 3 | | | | | | | | eason for | | |
| | | | | | | | | | Cha | nge Trar | | |
| 30 - 0 25 3 | PI Number 34948 | | Grama Rido | ge Morrow; Ea | | Pool Name | 1 | | | | | ool Code 77690 |
| | operty Code | , | | , | | perty Nam | 18 | | | | | ell Number |
| | 25382 | | Grama Rido | ge East 34 Sta | ite | | | | | | | 1 |
| | | Location | | | | | | | | | | |
| Ul or lot no. | Section 34 | Township 21S | Range 34E | Lot idn | Feet from | the i48 | North/Sou | | Feet from the 990 | East/We | | County |
| H 11 I | | | | | 10 | 40 | Nor | u I | 990 | | ıst | Lea |
| 11 Bottom Hole Location Ul or lot no. Section Township Range Lot Idn Feet from the North/South Line Feet from the East/West line County | | | | | | | | | | | | |
| | | | | | | | | · | | | | |
| 12 Lse Code | _ | ing Method C | ode 14 Gas | 14 Gas Connection Date 15 C-129 Permit Number | | | | | 6 C-129 Effective [| Date | 17 C- | 129 Expiration Date |
| F | L | Flowing 06/09/00 | | | | | | | | | | |
| III. Oil a | | Transpo | orters 19 Transporter N | lame | | 20 PO | n T | ²¹ O/G | 2 | POD UL | STRIO | ention |
| OGRID | | | and Addres | | | | | | <u> </u> | and De | escription | n |
| 21778 | 90 | inoco Inc. (7 South De ilsa, OK 74 | etroit | | 8 257 | 26 | 0 | Section 34, | T21S, R | :34E T | ank Battery | |
| | | | | | | | | | | | | |
| 032109 | 27 | 6&E Natura 77 Stemme allas, TX 75 | on Freeway, | ing & Process Suite 700 | | 825 | 727 | G | Section 34, | T21S, R | 34E T | ank Battery |
| | | | | | | | | | | | | |
| | | | | | | , | | | | | | |
| | | | | | | | | | | | | |
| IV. Prod | | ater | | | | | | | | | | |
| 23 F | POD | Sect | ion 34, T21S | , R34E Tank E | | 24 POD UL | STR Locati | ion and C | Description | | | |
| | | tion Dat | | | | | | | | | | |
| 25 Spu | d Date 07/00 | | ²⁶ Ready Date 06/09/00 | | ²⁷ TD 13,500' | | ²⁸ PBT 13,40 | _ | ²⁹ Perfora 13,134' - 1 | | • | ™ DHC, DC, MC |
| 00/0 | 31 Hole Siz | <u></u> | | Casing & Tubing | | | | Depth Se | | 0,100 | ³⁴ Sac | ks Cement |
| | 17-1/2" | | | 13-3/8" | | | | 1296' | | _ | 8 | 72 sx |
| | 12-1/4" | | | 9-5/8" | | | | 5763' | | | 19 | 903 sx |
| | 8-3/4" | | | 7" | | | | 11,250' | | | 1 | 80 sx |
| | 6-1/8" | | | 4-1/2" LR | | | | 13,500' | | | 3 | 50 sx |
| VI. Wel | I Test D | Data | | | | | | | | | | |
| 35 Date N | lew Oil | 36 Gas | Delivery Date | ³⁷ Test | Date | 3 | ^{la} Test Leng | yth | ³⁹ Tbg. Pre | ssure | | ⁴⁰ Csg. Pressure |
| 41 Choke | e Size | | ⁴² Oil | 43 W8 | ater | | ⁴⁴ Gas | | 45 AOI | = | 1 | 46 Test Method |
| complied v | vith and tha | | tion given above | n Division have to is true and com | | | | OIL CO | ONSERVAT | G NOI | IVISI | NC |
| Signature: | Kin | بالكات | والماكري | 1 | | Approve | d by: | L. | Vis Ele | eu. | ، ساموے | <u> </u> |
| Printed name | Kim S | tewart | | | | Title: | | פות_ | TRICT 1 SI | | | R |
| Title: Regu | ulatory An | alyst | | | | Approva | Date: | | | | | |
| Date: 06/14/00 Phone: (915) 686-8235 | | | | | | JUN 19200 | | | | | | |
| 48 If this is a C | hange of or | erator fill in t | he OGRID numi | ber and name of | the previous | s operator | | | | | | |
| | Previou | s Operator Si | gnature | | | Printed | d Name | | | | Title | Date |
| 4 | | | | | | | | | | | | |

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-104 Revised October 18, 1994 Instructions on back

| 811 South First District III 1000 Rio Brazo | SERVA 140 Sout | | | 101 | 1 | Submit | to Appro | | e District Office 5 Copies | | | | | |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------|---------------------------------------|--------------------|--------------------------|--------------|-----------|------------------------|-------------------------------|--------------|---------------------------------------|--------------------|---------------------|-----------------------------|
| District IV | | | | | | anta Fe, | | | | | | | AME | :NDED REPOR |
| 2040 South Pa | | - | T FOR | | | E AND | AUT | HORIZ | ΆΤΙ | ON | TO TRA | NSPO | | |
| Nearburg P | Producina C | ompany | ¹ Operator r | name ar | nd Address | | | | | | | ² OGRID | | r |
| 3300 North Midland, Te | A Street, B | uilding 2, | Suite 120 | | | | | | - | | 3.0 | 15742 eason for | | |
| | | | | | | | | | | | | | • | |
| ļ | | | | | | | | | | | RI-3 | 3000 (Ju | | |
| 30 - 0 25 3 | PI Number 34948 | | Grama Ri | dae M | orrow; Eas | | Pool Name | • | | | | | | ool Code 77690 |
| | operty Code | | | | | | perty Nan | ne | | | | | | ell Number |
| | 25382 | | Grama Ri | dge Ea | ast 34 Stat | te | | | | | | | | 1 |
| II. 10 S | Surface l | ocation | | | | | | | | | | | | |
| UI or lot no. | Section | Township | Range | Lot | t Idn | Feet from | | North/So | | ne F | eet from the | East/We | | County |
| H L | 34 | 21\$ | 34E | | | 15 | 48 ——— | Nor | rth | | 990 ———— | Ea | st —— | Lea |
| 11 Bottom Hole Location Ul or lot no. Section Township Range Lot Idn Feet from the North/Sc | | | | | | | North/So | uth 1 in | Te | act from the | Engt 04/a | at line | County | |
| Ul or lot no. | Section | Township | Range | | . tuii | reetiioini | uie | Noturso | um Lin | • - | eet from the | East/We | stime | County |
| 12 Lse Code | 13 Producin | g Method Co | ode 14 G | as Coni | nection Date | 15 C- | 129 Perm | it Number | T | 18 C | C-129 Effective D | ate | 17 C- | 129 Expiration Date |
| F | FI | owing | | 06/0 | 9/00 | | | | 1 | | | | | |
| III. Oil a | nd Gas | Franspo | rters | | | | | | | | | | | |
| 18 Transpor OGRID | | 1 | ⁹ Transporter and Addre | | | | 20 PO | D | ²¹ O/0 | 3 | 2: | POD ULS | TR Loc scription | |
| 40004 | | oco Pipeli | | _ | | | <u> </u> | , , , | 0 | | Section 34, | T21S, R | 34E T | ank Battery |
| 138648 | | elland, T | est Avenu X 79336 | В | | 0 | 8257 | 66 | | | | | | |
| State (See See | | | | | | | | | | | | | | |
| 032109 | 9 Pro | cessing | al Gas Gat | _ | | 2 | 257 | 27 | G | | Section 34, | T21S, R | 34E T | ank Battery |
| | 277 Dal | 7 Stemmo las, TX 75 | on Freewa 5207 | ıy, Sul | ite 700 | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | , | | | | | | |
| IV. Prod | uced Wa | ter | | | | | | | | | | | | |
| 1 | POD | Section | on 34, T21 | S 123 | 4F Tank B | | 24 POD UL | STR Locat | ion an | d Des | cription | | | |
| 2825 | | | | <u> </u> | TE TAIK D | allery | | | | | | , | | |
| | Complet ad Date | | a Ready Date | | 7 | 27 TD | | 28 PBT | TD C | | ²⁹ Perfora | ations | 1 : | 30 DHC, DC, MC |
| 1 | 07/00 | | 06/09/00 | | | 13,500' | | 13,40 | 02' | | 13,134' - 1 | 3,156' | | |
| | 31 Hole Size | | 3 | ² Casin | g & Tubing S | Size | | 33 | Depth | Set | · · · · · · · · · · · · · · · · · · · | | 34 Sac | ks Cement |
| | 17-1/2" | | | | 13-3/8" | | | | 1296 | 6' | | | 8 | 72 sx |
| | 12-1/4" | | | | 9-5/8" | | | | 576 | 3' | | | 19 | 903 sx |
| | 8-3/4" | | | | 7" | • | | ***** | 11,25 | 50' | | | 1 | 80 sx |
| | 6-1/8" | , | | 4 | I-1/2" LR | | | | 13,50 | 00' | | | 3 | 50 sx |
| VI. We | II Test D | ata | | | | | | | | | | | | |
| 35 Date N | New Oil | ³⁶ Gas | Delivery Date | • | 37 Test (| Date | 1 | ⁸ Test Leng | gth | | ³⁹ Tbg. Pre | ssure | | ⁴⁰ Csg. Pressure |
| ⁴¹ Chok | ⁴¹ Choke Size ⁴² Oil ⁴³ Water | | | | | | | 44 Gas | | | 45 AOI | E | † | 46 Test Method |
| complied | ertify that the | the informati | ion given abo | tion Div | rision have bue and comp | een olete | | (| OIL (| ا۔۔۔ (O) | NSERVAT | ION DI | VISIO | ON |
| to the bes Signature: | it of my knowl | | siler. Seu | عد | £ | | Approve | d by: | 1 | , . us | Mes | - , | | |
| Printed name | Kim Ste | | | | | | Title: | | | | <i></i> | | | |
| Title: Reg | ulatory Ana | lyst | | | | | Approva | Date: | ISK | HŢC | JASUPE | Plus | | |
| 1 | | | | | | | | | | | | | | |

Printed Name

Title

Date

If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

DISTRICT I
P.O. BOX 1980, Hobbs, NM 88240
OIL CONSERVATION DIVISION

ELL API NO.

| P.O. Box 1980, Hobbs, NM 88 | 3240 | | 3ENVAII) 40 Pacheco St. | אוטופועום אוכ | WELL API NO. | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------|----------------------------------------|--|--|
| DIST <u>RICT II</u> | | | nta Fe, NM 8 | 7505 | 30-025-34948 | | | | |
| P.O. Drawer DD, Artesia, NM | 88210 | | | | sindicate Type of Lea | | | | |
| DISTRICT III | | | | | | STATE | FEE | | |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, N | IM 87410 | | | | «State Oil & Gas Lea | se No. | | | |
| SUN | IDRY NOTICE | S AND REPO | ORTS ON WEL | LS | | | - | | |
| (DO NOT USE THIS FO | RM FOR PROPO | SALS TO DRILL | OR TO DEEPEN | OR PLUG BACK TO A | 7Lease Name or Unit | Agreement Name | | | |
| UIFFER | | IR. USE "APPLIC I) FOR SUCH PR | CATION FOR PER COPOSALS.) | KIMI I " | Grama Pidas Es | net 34 State | i | | |
| ₁Type of Well: | | <u> </u> | | | Grama Ridge Ea | 331 J4 JIBIE | , | | |
| OIL | GAS WELL | 0 | THER | | | | | | |
| ₂Name of Operator Nearburg Producing C | ompany | | | | sWell No. | | | | |
| 3Address of Operator | Suito 120 Midle | nd TY 70705 | | | •Pool name or Wildca | | | | |
| 3300 N A St., Bldg 2, S | ouite 120, Midial | iiu, ia 19105 | · · · · · · · · · · · · · · · · · · · | | Grama Ridge M | iorrow; East | | | |
| Unit Letter H | . 1548 Fee | et From The | North | Line and990 | Feet From The | East | Line | | |
| 34 Section | 218 | Township | 34E F | Range | NMPM | Lea | County | | |
| | | "Elevation 3689' GR | (Show whether DF, | RKB, RT, GR, etc.) | | | | | |
| 11 | Check Appro | opriate Box t | o Indicate Na | ature of Notice, Rep | ort or Other F |)ata | the third have been been as the second | | |
| | E OF INTE | • | | | SEQUENT RE | | | | |
| NOTIC | E OF INTE | ** | | SUBS | DEGUENT RE | CORTOR: | | | |
| PERFORM REMEDIAL WORK | | PLUG AND ABA | ANDON | REMEDIAL WORK | | ALTERING CAS | ING | | |
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| TEMPORARILY ABANDON | | CHANGE PLAN | is | | ENT JOB | PLUG AND ANBA | ANDONMENT | | |
| TEMPORARILY ABANDON PULL OR ALTER CASING | | | | CASING TEST AND CEME | INT JOB | | | | |
| TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12Describe Proposed or Complework) SEE RULE 1103. | eted Operations (CI | learly state all pertin | ent details, and give | OTHER: 4-1/2 " Produ | ent Job | any proposed | X | | |
| TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12Describe Proposed or Comple | leted Operations (C/ | learly state all pertin | ent details, and give | CASING TEST AND CEME OTHER: 4-1/2 " Produ pertinent dates, including est ith 350 sx Class "H" + | ent Job | any proposed | X | | |
| TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12Describe Proposed or Complwork) SEE RULE 1103. 05/03/00: Drilled to 13, | leted Operations (C/ | learly state all pertin | ent details, and give | CASING TEST AND CEME OTHER: 4-1/2 " Produ pertinent dates, including est ith 350 sx Class "H" + | ent Job | any proposed | X | | |
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| TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12Describe Proposed or Complwork) SEE RULE 1103. 05/03/00: Drilled to 13, BOPE and NU B section | eted Operations (Cl. 500'. Set liner ha. Clean pits an attion above is true | learly state all pertin nanger at 11,010 nd release rig at | ent details, and give 6'. Cemented with 1800 hrs on 5/3 | CASING TEST AND CEME OTHER: 4-1/2 * Produ pertinent dates, including est ith 350 sx Class "H" + 1 | iction Liner timated date of starting additives. Test line | any proposed er top to 2500 p | si. NU | | |

(This space for State Use)

APPROVED BY Lay W. Wink

FIELD REPRESENTATIVE II

DATE MAN 16 2000

CONDITIONS OF APPROVAL, IF AN

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATIO 2040 Pacheco St. | | WELL API NO. 30-025-34948 | | |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|------------------|---------------------|
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, NM 87 | 7505 | sIndicate Type of Leas | | |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | : : | ,, | ₅State Oil & Gas Lease | STATE X | FEE |
| (DO NOT USE THIS FORM FOR PR DIFFERENT RESE (FORM) | TICES AND REPORTS ON WEL ROPOSALS TO DRILL OR TO DEEPEN ROVOIR. USE "APPLICATION FOR PER C-101) FOR SUCH PROPOSALS.) | OR PLUG BACK TO A | 7Lease Name or Unit A | • | 1 1976. |
| Type of Well: OIL GAS WELL WELL | OTHER | | | - | |
| ² Name of Operator Nearburg Producing Company | | | «Well No. 1 | - | |
| ³ Address of Operator 3300 N A St., Bldg 2, Suite 120, M | Midland, TX 79705 | | Pool name or Wildcat Grama Ridge Mo | | |
| Well Location Unit Letter H 1548 | Feet From The North | Line and 990 | Feet From The | East | Line |
| 34 Section 21S | Township 34E F | Range | NMPM | Lea | County |
| | 10 Elevation (Show whether DF, I | RKB, RT, GR, etc.) | | | |
| 11 Check A | appropriate Box to Indicate Na | ture of Notice, Rep | oort, or Other Da | ata | |
| NOTICE OF IN | NTENTION TO: | SUBS | SEQUENT REF | PORT OF: | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | | ALTERING CASIN | G |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING OF | PNS. | PLUG AND ANBAN | IDONMENT |
| PULL OR ALTER CASING | | CASING TEST AND CEME | NT JOB | y | |
| OTHER: | · · · | OTHER: 7" Protection | casing and cement | | X |
| work) SEE RULE 1103. 04/11/00: Drilled to 10,841', lost c 90 sx cmt + additives. Cmt 2nd sta | irc, dry drilled to 11,250'. RU and rar age using 90 sx cmt + additives. ND back 200' into 7" csg if productive. | n 275 its 7" 23#. 26#. 29 | 9#. LTC & BTC csa. | Cmt 1st stage | csg using ole to |
| | | | | | |
| • | | | | | |
| I hereby certify that the information above in SIGNATURE | is true and complete to the best of my knowled | ge and belief. LE Regulatory Analyst | | DATE 04-18-0 | 00 |
| TYPE OR PRINT NAME Kim Stewart | | | | ELEPHONE NO. 915 | |
| (This space for State Use) | | | | | |
| ADDROVED BY Miss 1 | Illians DISTE | LOT 1 SUPERVIS | つじつ | APR 2 | 1 200h |

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

| <u>DISTRICT J</u> P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATI 2040 Pacheco St. | | WELL API NO. | | |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, NM 8 | 37505 | 30-025-34948 sIndicate Type of Lea | ise | <u> </u> |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | | ₅State Oil & Gas Lea | STATE X | FEE |
| 1000 RIO Brazos Rd., Aztec, NM 87410 | अंग्रह्मा विकास | a distribution di periodi di Pereo s | | e e di Silve e deste | |
| (DO NOT USE THIS FORM FOR PR DIFFERENT RESE | TICES AND REPORTS ON WE ROPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PE C-101) FOR SUCH PROPOSALS.) | OR PLUG BACK TO A | 7Lease Name or Unit | • | |
| Type of Well: OIL GAS WELL WELL | OTHER | | Orama rango E | | |
| 2Name of Operator Nearburg Producing Company | | | ₅Well No. 1 | | |
| ₃Address of Operator 3300 N A St., Bldg 2, Suite 120, M | Midland, TX 79705 | | ₃Pool name or Wildca Grama Ridge M | | |
| ∙Well Location Unit Letter H 1548 | Feet From The North | Line and990 | Feet From The | East | _ Line |
| 34 Section 21S | Township 34E | Range | NMPM | Lea c | ounty |
| | 10 Elevation (Show whether DF 3689' GR | , RKB, RT, GR, etc.) | | | |
| 11 Check A | Appropriate Box to Indicate N | ature of Notice, Rep | oort, or Other [| Data | |
| NOTICE OF IN | NTENTION TO: | SUBS | SEQUENT RE | PORT OF: | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | | ALTERING CASING | |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING OF | PNS. | PLUG AND ANBAND | ONMENT |
| PULL OR ALTER CASING | | CASING TEST AND CEME | ENT JOB | The second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of th | year . |
| OTHER: | | OTHER: Intermediate | Casing and Ceme | ent | × |
| 12Describe Proposed or Completed Operation work) SEE RULE 1103. | ons (Clearly state all pertinent details, and give | re pertinent dates, including es | timated date of starting | any proposed | |
| 03/27/00: Drilled to 5,763'. C&C I stage csg using 403 sx cmt + addi BOPE and test. | nole. RU and ran 139 jts 9-5/8" 36# tives. Cmt 2nd stage using 1500 sx | t, 40#, K55, N80, S95, L7 cmt + additives. Circ 21 | F&C & STC csg. S 10 sx to surface. V | Set csg @ 5,763'. (VOC. Cut off casin | Omt 1st g and NU |
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| | | | | | |
| I hereby certify that the information above i | is true and complete to the best of my knowle | edge and belief. | | | |
| SIGNATURE SIGNATURE | Hewart 1 | πLE Regulatory Analyst | | DATE 04-03-00 | |
| TYPE OR PRINT NAME KIM Stewart | | | | TELEPHONE NO. 915/6 | 386-8235 |
| (This space for State Use) | | | | | |
| APPROVED BY | William . | THE | noë. | DATE APR 1 | 2 7000 |
| CONDITIONS OF APPROVAL, IF ANY: | DIST | RICT 1 SUPERVIS | 3U11 | WIE APR | , - , |

State of New Mexico Energy, Minerals and Natural Resources Department

| DISTRICT I | OIL CONSERVATI | ON DIVISION | |
|-----------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------|---------------------------------------------------|
| P.O. Box 1980, Hobbs, NM 88240 | 2040 Pacheco St | | WELL API NO. 30-025-34948 |
| DISTRICT II | Santa Fe, NM | 87505 | sIndicate Type of Lease |
| P.O. Drawer DD, Artesia, NM 88210 | | | STATE FEE |
| <u>DISTRICT III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 | | | State Oil & Gas Lease No. |
| SUNDRY NOT | TICES AND REPORTS ON WE | LLS | |
| (DO NOT USE THIS FORM FOR PR | OPOSALS TO DRILL OR TO DEEPE | N OR PLUG BACK TO A | ₁Lease Name or Unit Agreement Name |
| | RVOIR. USE "APPLICATION FOR PI >101) FOR SUCH PROPOSALS.) | ERMIT | Grama Ridge East 34 State |
| Type of Welt: | | | Stame Mage Lack 5 / State |
| OIL GAS WELL | OTHER | · ************************************ | |
| 2Name of Operator Nearburg Producing Company | | | •Well No. |
| 3Address of Operator 3300 N A St., Bldg 2, Suite 120, M | Aidland TX 79705 | · | Pool name or Wildcat Grama Ridge Morrow; East |
| 4Well Location | ndarid, 17 79700 | | Grama radge Monow, East |
| Unit Letter H : 1548 | Feet From The North | Line and 990 | Feet From The East Line |
| 34 Section 21S | Township 34E | Range | NMPM Lea County |
| 1. 14. 14. 14. 14. 14. 14. 14. 14. 14. 1 | DElevation (Show whether DE 3689' GR | F, RKB, RT, GR, etc.) | |
| 11 Check A | ppropriate Box to Indicate N | lature of Notice, Re | port, or Other Data |
| NOTICE OF IN | ITENTION TO: | SUB | SEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING O | PNS. PLUG AND ANBANDONMENT |
| PULL OR ALTER CASING | | CASING TEST AND CEMI | ENT JOB |
| OTHER: | | OTHER: Surface Cas | ing and Cement |
| 12Describe Proposed or Completed Operation work) SEE RULE 1103. | ns (Clearly state all pertinent details, and gi | ve pertinent dates, including es | stimated date of starting any proposed |
| 03/07/00: Spud well @2300 hrs or | n 03/07/00. | | |
| | | | Set csg @ 1,296'. Cmt csg using 872 sx cmt |
| + additives. Circ 54 sx to surface. | WOC 18 hrs. Cut off casing and N | IU BOPE and test. | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| I hereby certify that the information above is | true and complete to the best of my knowl | edge and belief. | 144 |
| SIGNATURE Kim Ste | went. | ritte Regulatory Analyst | DATE 03-14-00 |
| TYPE OR PRINT NAME KIM Stewart | | | TELEPHONE NO. 915/686-8235 |
| (This space for State Use) | | DISTRICT 1 SUPF | -AVISUM |
| A1. | | -DICT 1 SUPI | MAD OF MAR. |
| APPROVED BY | Extlems | MISTHIU. | DATE MAR 27 2000 |

District II 811 South First, Artesia, NM 88210

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

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-101 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 6 Copies Fee Lease - 5 Copies

OIL CONSERVATION DIVISION 2040 South Pacheco

| 2040 South Pache | co, Santa Fe, | NM 87505 | | Sa | anta Fe, N | M 87505 | | | | AMEN | DED REPORT |
|--------------------------------|---------------------------------------------|------------------|------------|-----------------|-------------------|----------------------------------------|-----------|----------------------|-------------------------|----------------------|-----------------------|
| APPLICA | NOITA | FOR PE | RMIT | TO DRI | LL, RE-EI | NTER, DE | EPE | N, PLUGB | ACK | | |
| Nearburg Pro | oducina C | ompany | 1Opera | tor Name and | d Address | | | | | | GRID Number |
| 3300 N Å St. | , Bldg 2, S | | | | | | | | | | 015742 |
| Midland, TX | 79705 | | | | | | | | | | Pi Number 5 -34948 |
| ₄Propert | y Code | | | | ₅Prope | rty Name | | | | | •Well No. |
| 25. | <u> 382</u> | Gra | ma Rido | ge East 34 | State | <u> </u> | _ | | | | 1 |
| | | | | | -Surface | Location | | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South | line | Feet from the | East | West Line | County |
| Н | 34 | 218 | 34E | | 1548 | North | | 990 | | East | Lea |
| | | •Propo | sed E | Bottom F | lole Locat | ion If Diffe | rent | From Surfa | ace | | _ |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line Feet from the | | East | West Line | County | |
| | <u></u> | •Proposed | Pool 1 | | <u></u> | | | 10Propose | d Pool 2 | 2 | <u></u> |
| Grama Ridge | e Morrow, | East | | | | [| | | | | |
| | | | | _ | | | _ | | | | |
| 11Work Ty | pe Code | 12 | Well Type | Code | 13Cable | e/Rotary | · | 14Lease Type Code | | ı₅Groun | d Level Elevation |
| ľ | N | | G | | ļ F | ₹ | | S | | | 3689 |
| | · · · · · · · · · · · · · · · · · · · | | Propose | • | | | | 19Contractor | 20Spud Date 03-05-00 | | • |
| N | No 1370 | | 00 Morrow | | Patterson | | | 03-03-00 | | | |
| | | | 21 | Propose | d Casing a | and Ceme | nt P | rogram | | | |
| Hole Si | ze | Casing Si | | | weight/foot | Setting Dep | th | Sacks of Cem | ent | _ | imated TOC |
| | 7-1/2" | | 13-3/8" | | 48# | 1300' | | |) sxs | | surface |
| | 2-1/4" | | | | 4# & 32# | 5700' | | 2000 sxs 1500 sxs | | Circ to surface | |
| | 8-3/4" | | 5-1/2" | 1 | 7# & 20# | 13 | 700' | 1500 | sxs | | |
| | | | | | | ···· | | <u> </u> | | <u> </u> | |
| ²² Describe the r | proposed pro | oram If this a | nolication | is to DEEPE | N or PLUG BACK | C give the data or | n the pri | esent productive zo | ne and | proposed ne | w productive zone |
| | | | | | sheets if necessa | | u.o p. | coom productivo 20 | no and | p. 0 p 0 0 0 0 1 1 0 | W productive zone. |
| Propose to | drill the we | ell to sufficier | nt denth | to evaluate | e the Morrow f | ormation. Afte | r reac | hing TD, logs w | ill be rı | ın and cas | ing set if the |
| evaluation is | s positive. | Perforate, t | est and | stimulate a | s necessary to | establish pro | ductio | on. | | | |
| Acreage de | dication is | 320 acres; I | N/2 of S | ection 34. | | | | | | | , |
| 1.5.50.95 | | 0_0 0.0.00, | | | | Permit ! | Expir | es 1 Year F | rom | Approv | aı |
| : | | | | | | Date | . Unl | ess Drilling | Und | letway | |
| ²³ I hereby certify | | | above is t | rue and com | plete to the | | | ONSERVA | TION | I DIVIS | ION |
| Signature: | best of my knowledge and belief. Signature: | | | | | OIL CONSERVATION DIVISION Approved By: | | | | | |
| Printed name: | Kim 04= | | سمد | $\frac{\sim}{}$ | | Title: | rau | y wie | mt | <u>ٺ</u> | - |
| Title: | Kim Stew | | | | | FIFI D | TEI-T | TESENTAT | Expirati | on Date: | |
| Regula | tory Analy | rst | -1 c. | | | | | "LOENTAT | 1/27 | } | |
| Date: | Date: 02-23-00 Phone: 915/686-8235 | | | | | Attached: | | | | | |

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88811-6719

DISTRICT III 1000 Rio Braxos Rd., Axtec, NM 57419

P.O. BOX 2066, SANTA FE, N.M. 87504-2066

DISTRICT IV

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 30-025-34948 | 77690 | Cromp Bidos Mar | _ |
|---------------|------------------|-----------------|-------------|
| | | Grama Kruge Mo. | rrow, East |
| Property Code | Property Na | me | Wall Number |
| 25382 | GRAMA RIDGE EA | ST 34 ST. | 1 |
| OGRID No. | Operator Na | me | Elevation |
| 15742 | NEARBURG PRODUCI | NG COMPANY | 3689 |

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| Н | 34 | 21 S | 34 E | | 1548 | NORTH | 990 | EAST | LEA |

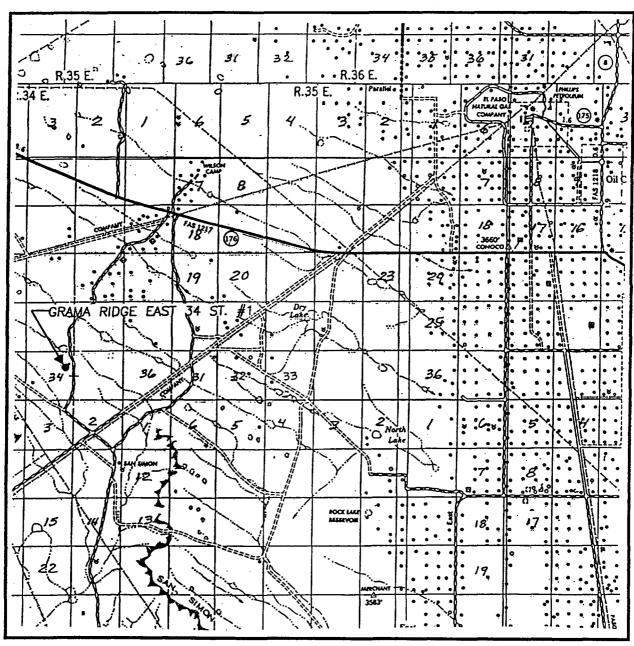
Bottom Hole Location If Different From Surface

| | UL or lot No. | Section To | ownship | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|-----------------|------------|------------|--------------|---------|---------------|------------------|---------------|----------------|--------|
| i | Dedicated Acres | Joint or h | infill Cor | solidation C | ode Or | ier No. | | | | |
| | 320 | N | | | | | | | | |

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

| OR A NON-STAND | ARD UNIT HAS BE | EN APPROVED BY TH | LE DIVISION |
|--------------------|-----------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 990. | OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my immediate and belief. Signature Kim Stewart Printed Name |
| | | | Regulatory Analyst Title February 23, 2000 Date SURVEYOR CERTIFICATION I hareby carify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is frue and correct to the best of my belief. |
| | | | FEBRUARY 21, 2000 Date Surveyor Signature & Seaf of Company Seaf of Company Seaf of Company Seaf of Company Seaf of Company Seaf of Company Seaf of Company Seaf Seaf of Company Seaf Seaf Seaf of Company Seaf Seaf Seaf Seaf Seaf Seaf Seaf Seaf |

VICINITY MAP

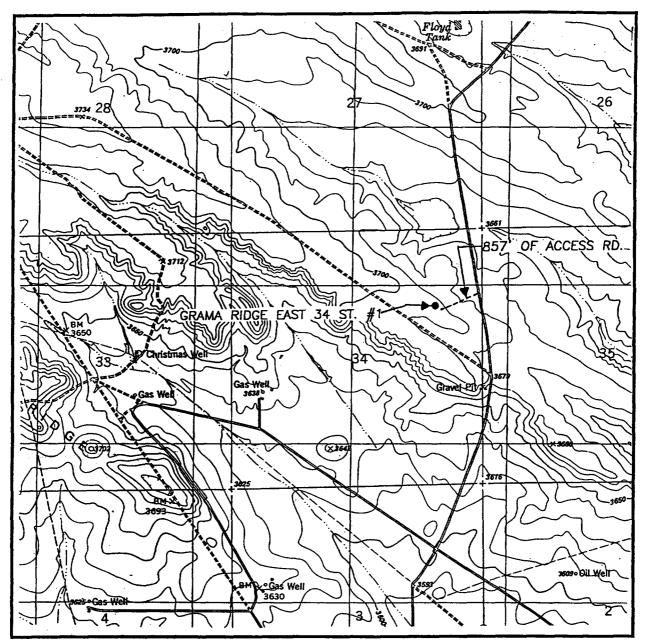


SCALE: 1" = 2 MILES

| SEC. 31 | TWP. 24-S RGE. 34-E |
|----------|----------------------------------|
| SURVEY_ | N.M.P.M. |
| COUNTY_ | LEA |
| DESCRIPT | ION 1548' FNL & 990' FEL |
| ELEVATIO | N3689 |
| OPERATO | R <u>NEARBURG PRODUCING CO</u> . |
| | GRAMA RIDGE EAST 34 ST. |

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

LOCATION VERFICATION MAP



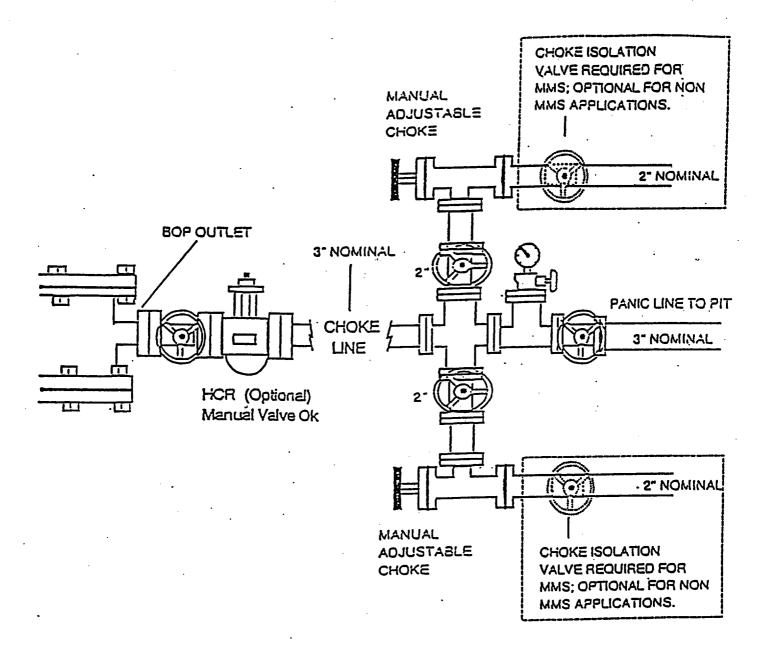
SCALE: 1" = 2000'

CONTOUR INTERVAL: SAN SIMON RANCH, N.M.- 10'

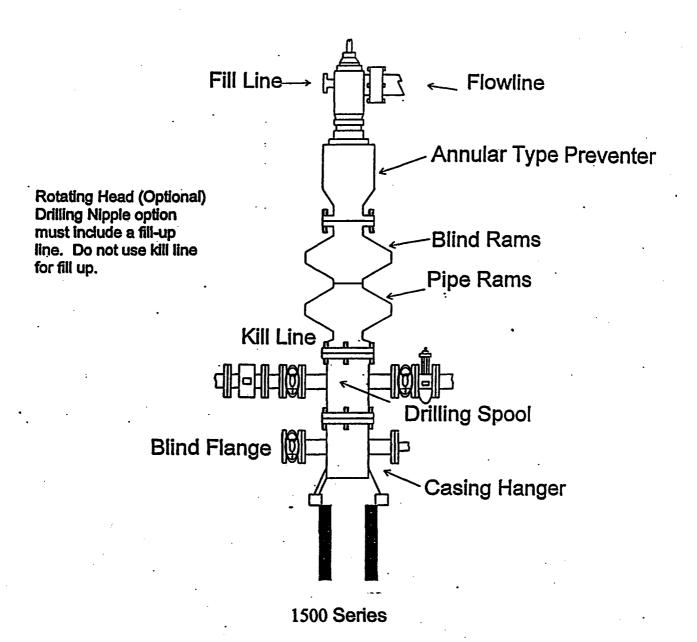
| SEC. 34 TWP. 21-S RGE. 34-E |
|--------------------------------------------------------------------------------|
| SURVEY N.M.P.M. |
| COUNTYLEA |
| DESCRIPTION 1548' FNL & 990' FEL |
| ELEVATION3689 |
| OPERATOR <u>NEARBURG PRODUCING CO.</u> LEASE <u>GRAMA RIDGE EAST 34 ST.</u> |
| U.S.G.S. TOPOGRAPHIC MAP SAN SIMON RANCH, N.M. |

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

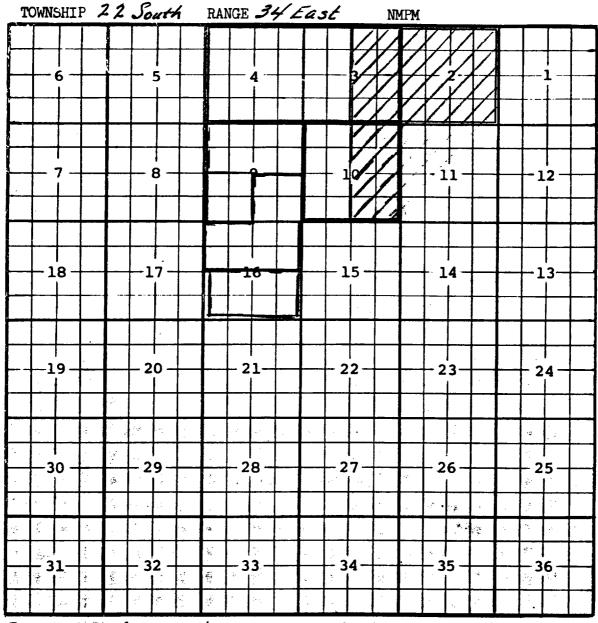
NEARBURG PRODUCING COMPANY CHOKE MANIFOLD 5M SERVICE



NEARBURG PRODUCING COMPANY BOPE SCHEMATIC



| DESCRIPTION: \$2 SEC 35 (R-600 T-1) (C-6170 11-1-17) Ext. 72 Sec. 34 (R-62) | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| x+: 1/2 Sec 25 (R-6657 - 4-20-81) Ext: N/2 5 | sec. 25 (R-8024, 8-30-85) | |
| EXT: E/2 56c 27 (R-9472, 4-1-91) | | |
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| | | |



Description: All Sec. 3 \$ 4 (R-3006, 12-3-65) Ext: All Sec. 10(R-3/52, 12-1-66) Ext: All Sec 2 (R-5729, 6-1-78)

Deletion: All Sec 2, =/2 Sec 3, =/2 Sec 10 (R-5995, 5-2-79) Ext: SE/4 sec. 9, N/2 sec. 16 (R-9741,9-1-89) EXT: N/2 SEC. 9 (R-9/20,3-1-90)
Ext: 50/4 sec. 9 (R-9345, 11-7-90) Exti /2 Sec. 16 (R-11304,1-12-00)

| TOWNSHIP | 21 South | RANGE 34East | NMFM |
|----------|----------|------------------------|--------------|
| 6 | 5 | 4 | 3 |
| 7 | 8 | 9 1 | 0 -11 -12 |
| 18 | 17 | 16 | .5 - 14 - 13 |
| 19 | 20 | 21 2 | 2 23 24 |
| 30 | 29 | 28 | 7 26 25 |
| 31- | 32 | 333 | 36 36 |
| | | (0.7.(1)) - (1) (5.0.) | |

| Ext: All Sec. 34 (R-3080, 7-1-66)-All Sec. 33 (R. 3195, 3-1-67) |
|------------------------------------------------------------------------------------------------------------------------------------|
| Ext: All Sec. 34 (R-3080, 7-1-66)-All Sec. 33 (R.3195, 3-1-67) Ext: All Sec. 35 (R-5987, 4-1->9) Deletion: W2 Sec 33, E/2 Sec 34, |
| - All Sec 35 (R-5995, 5-2-79) |
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70-2-33. Definitions.

As used in the Oil and Gas Act [this article]:

- A. "person" means:
- (1) any individual, estate, trust, receiver, cooperative association, club, corporation, company, firm, partnership, joint venture, syndicate or other entity; or
- (2) the United States or any agency or instrumentality thereof or the state or any political subdivision thereof;
- B. "pool" means an underground reservoir containing a common accumulation of crude petroleum oil or natural gas or both. Each zone of a general structure, which zone is completely separate from any other zone in the structure, is covered by the word pool as used in the Oil and Gas Act. Pool is synonymous with "common source of supply" and with "common reservoir";
- C. "field" means the general area which is underlaid or appears to be underlaid by at least one pool and also includes the underground reservoir or reservoirs containing the crude petroleum oil or natural gas or both. The words field and pool mean the same thing when only one underground reservoir is involved; however, field, unlike pool, may relate to two or more pools;
- D. "product" means any commodity or thing made or manufactured from crude petroleum oil or natural gas and all derivatives of crude petroleum oil or natural gas, including refined crude oil, crude tops, topped crude, processed crude petroleum, residue from crude petroleum, cracking stock, uncracked fuel oil, treated crude oil, fuel oil, residuum, gas oil, naphtha, distillate, gasoline, kerosene, benzine, wash oil, waste oil, lubricating oil and blends or mixtures of crude petroleum oil or natural gas or any derivative thereof:
- E. "owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another;
- F. "producer" means the owner of a well capable of producing oil or natural gas or both in paying quantities;
- G. "gas transportation facility" means a pipeline in operation serving gas wells for the transportation of natural gas or some other device or equipment in like operation whereby natural gas produced from gas wells connected therewith can be transported or used for consumption;
- H. "correlative rights" means the opportunity afforded, so far as it is practicable to do so, to the owner of each property in a pool to produce without waste his just and equitable share of the oil or gas or both in the pool, being an amount, so far as can be practicably determined and so far as can be practicably obtained without waste, substantially in the proportion that the quantity of recoverable oil or gas or both under the property bears to the total recoverable oil or gas or both in the pool and, for such purpose, to use his just and equitable share of the reservoir energy;
- I. "potash" means the naturally occurring bedded deposits of the salts of the element potassium; and
- J. "casinghead gas" means any gas or vapor or both indigenous to an oil stratum and produced from such stratum with oil including any residue gas remaining after the processing of casinghead gas to remove its liquid components.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

APPLICATION OF RAPTOR NATURAL PIPELINE, LLC CASE NO. 12588 f/k/a LG & E ENERGY CORPORATION, FOR SPECIAL RULES FOR THE GRAMA RIDGE MORROW GAS STORAGE UNIT, LEA COUNTY, NEW MEXICO.

APPLICATION OF LG & E NATURAL PIPELINE LLC FOR SPECIAL RULES FOR THE GRAMA RIDGE MORROW GAS STORAGE UNIT, LEA COUNTY, NEW MEXICO.

CASE NO. 12441

ORDER NO. R-11611

ORDER OF THE DIVISION

BY THE DIVISION:

These cases came on for hearing at 9:00 a.m. on May 21, 2001, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this <u>3rd</u> day of July, 2001, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

FINDS THAT:

- (1) Due public notice has been given, and the Division has jurisdiction of these cases and their subject matter.
- (2) At the time of the hearing, Cases No. 12588 and 12441 were consolidated for the purpose of testimony. It is further noted that the original applicant in Case No. 12441, LG&E Natural Pipeline, LLC, through a change of name became Raptor Natural Pipeline LLC.
- (3) BTA Oil Producers, Yates Petroleum Corporation, C. W. Trainer, Inc., Nearburg Exploration Company L.L.C. and Concho Resources, Inc. appeared at the hearing and were represented by counsel.

- (4) The applicant in Case No. 12588, Raptor Natural Pipeline LLC, is the Unit Operator of the Grama Ridge Morrow Gas Storage Unit, utilized for the purposes of the injection, storage, and withdrawal of gas in the Unitized Formation, consisting of those Morrow formation sands encountered between log depths of 12,722 feet and 13,208 feet in the Shell Oil Company State GRA Well No. 1 (API No. 30-025-21336), located 1980 feet from the North line and 660 feet from the West line (Unit E) of Section 3, Township 22 South, Range 34 East, NMPM, Lea County, New Mexico.
- (5) The Grama Ridge Morrow unitized area, as originally approved by the Division on January 29, 1973, pursuant to Order No. R-4473, and subsequently amended, encompasses the above-referenced interval of the Morrow Formation underlying the following lands:

Township 21 South, Range 34 East, NMPM

Section 33: All

Section 34: All

Township 22 South, Range 34 East, NMPM

Section 3: All

Section 4: All

Section 10: All.

- (6) Unit operations originally commenced in 1964 as conventional production operations authorized by the Division under Order No. R-2792. In 1973, the Division, by Order No. R-4491, authorized the conversion of the Unit from primary recovery to gas storage, pursuant to a three-phase plan consisting of pilot pressure testing to determine the limits of the Morrow reservoir, followed by the installation of permanent compression equipment and fill-up operations, and subsequently, by installation of additional compression to facilitate fill-up to 2,500 psig surface pressure.
- ("Commission") issued Order No. R-6050, creating the East Grama Ridge-Morrow Gas Pool in the area. In Order No. R-6050, the Commission found that the Morrow producing interval in the area does not constitute a broad, continuous producing body, but instead is composed of numerous and separate isolated sand bodies. Subsequently, in Case No. 8088, the Commission found in Order No. R-7582 that the boundaries of the Grama Ridge Storage Reservoir could not be precisely determined. The issuance of Order No. R-7582 by the Commission in Case No. 8088 was precipitated by the proposed location of the L&B Oil Company Federal Well No. 1 to be drilled at a location 660 feet from the South line and

Case Nos. 12588/12441 Order No. R-11611

Page 3

1980 feet from the East line (Unit O) of Section 5, Township 22 South, Range 34 East, NMPM, Lea County, New Mexico directly offsetting the Grama Ridge Morrow Gas Storage Unit. At the insistence of the Unit operator, then Llano, Inc., the Commission ordered L&B Oil Company to permit Llano to run an RFT log in the Federal Well No. 1, in order to establish the pressure in each Morrow stringer and thereby determine if the well was in communication with the gas storage project. The Commission further ordered L&B Oil Company to provide Llano with certain information on the Federal Well No. 1, including drilling time, weight, bit changes, etc.; copies of drill stem tests; mud log information; samples of drill cuttings; and copies of the CNL-FDC porosity log or equivalent porosity log. L&B was further ordered to delay running casing into the well until Llano had the opportunity to run the RFT log. Order No. R-7582 finally prohibited L&B Oil Company from producing gas from those Morrow stringers that the RFT log data showed as having pressure similar to Llano's gas storage project

- (8) The applicant presented evidence establishing that Nearburg Exploration Company LLC drilled and completed its Grama Ridge East "34" State Well No. 1 (API No. 30-025-34948) within the horizontal limits of the Unit at a location approximately 1548 feet from the North line and 990 feet from the East line (Unit H) of Section 34, Township 21 South, Range 34 East, NMPM, Lea County, New Mexico. This well was also drilled to a total depth and completed within the vertical limits of the structural equivalent of the Unitized Formation.
- (9) Raptor presented testimony and evidence establishing that, based on currently available data, it appears that the Grama Ridge East "34" State Well No. 1 has not adversely affected Unit Operations, although the possibility of actual communication with the Unitized Formation cannot be precluded with absolute certainty.
- (10) Raptor presented additional geologic and engineering evidence establishing that the exact boundaries of the storage reservoir still cannot be precisely determined. The evidence further establishes that the precise location of faults in the area and the apparent boundary or boundaries between the storage reservoir and the East Grama Ridge-Morrow Gas Pool is uncertain.
- (11) Raptor presented additional geologic evidence of the depositional mechanics of the Morrow formation in the area, establishing that there is a reasonable possibility of communication between the storage reservoir and Morrow sands in the East Grama Ridge-Morrow Gas Pool. These depositional mechanisms include distributary prograding channel sands with truncation of lobe sands; bifurcating distributary channels; crevasse splays with communication up-formation; stacked channel sands with truncation; offsetting channels of relatively close proximity with varying relative reservoir pressures which may lead to the

failure of inter-reservoir sealing mechanisms; and, faulted distributaries with cross-fault communication.

- (12) The applicant presented additional evidence establishing that the potential exists for additional drilling and development within the horizontal limits of the Unit Area and that additional drilling or recompletions may result in wells being completed in Morrow Formation reservoirs that are in communication with that portion of the formation dedicated to the Grama Ridge Morrow Gas Storage Unit. As a consequence, there exists a reasonable potential that the drilling, completion, and operation of new wells or recompletions of existing wells in the area, would result in interference with Unit operations and the impairment of Applicant's correlative rights.
- (13) Raptor requests that the Division adopt Special Project Rules and Operating Procedures for the Grama Ridge Morrow Gas Storage Unit Area, including certain notification, casing, cementing, completion and recompletion requirements for newly drilled and existing wells within the Unit Area.
- (14) Raptor presented engineering testimony and evidence in support of its proposed casing and cementing requirements that would permit recompletions and new drills through the Unitized Formation, and completions immediately above and below the Unitized Formation, while maintaining the integrity of the Unit and unit operations.
- (15) Raptor presented evidence establishing that the implementation of such rules is reasonable, and does not unduly burden operators of wells within the project area, and industry and regulatory precedent exists for such rules.
- (16) The evidence presented further established that the implementation of such Special Project Rules and Operating Procedures would be in the interest of, and would promote, public safety.
- (17) In August 2000, Raptor, then known as LG&E Natural Pipeline LLC, convened a meeting in Midland, Texas with operators in the vicinity of the Grama Ridge Morrow Gas Storage Unit to discuss the establishment of proposed Special Project Rules and Operating Procedures in the Grama Ridge Morrow Gas Storage Unit Area as well as in a buffer zone consisting of each 320- acre gas spacing and proration unit immediately adjacent to the Grama Ridge Morrow Gas Storage Unit. As a result of that meeting and the comments received from the other operators, Raptor/LG&E modified its proposal by eliminating certain notification and testing procedures as well as the buffer zone. Subsequent meetings with other operators, specifically Nearburg Exploration, resulted in further refinements and modifications to the proposed Special Project Rules and Operating Procedures.

Case Nos. 12588/12441 Order No. R-11611

Page 5

- (18) The Special Project Rules and Operating Procedures presently proposed by Raptor provide for:
 - (a) Advance notification of drilling or recompletion operations;
 - (b) The sharing of certain information during drilling operations;
 - (c) Availability of well logs;
 - (d) Certain casing and cementing requirements for wells penetrating the Morrow Formation and completed above the top of the Unitized Formation;
 - (e) Certain casing and cementing requirements for wells penetrating the Morrow Formation and completed below the base of the Unitized Formation and/or below the base of the Morrow Formation; and
 - (f) A prohibition on completions within the Unitized Formation underlying the Unit Project Area by other than the Unit Operator.

The proposed Special Project Rules and Operating Procedures would not apply to any well that does not penetrate the Morrow Formation within the Unit Project Area.

- (19) The evidence presented by Raptor established that the Special Project Rules and Operating Procedures are necessary to protect the correlative rights of the Unit Operator to the gas in its storage facility as well as to maintain the integrity of Unit operations. The evidence further established that the Special Project Rules and Operating Procedures would serve to prevent waste and are otherwise in the interests of conservation. The Special Project Rules and Operating Procedures would also promote public safety.
- (20) In addition to its general authority to prevent waste and protect correlative rights set forth at N.M. Stat. Ann. 1978 Section 70-2-11, the Division is authorized by Section § 70-2-12.B (2), (7) and (13) to prevent the escape of gas from strata, to require wells to be drilled so as to prevent injury to neighboring leases or properties, and to regulate the subsurface storage of natural gas.

(21) Special operating procedures for all recompletions and newly drilled wells within the Grama Ridge Morrow Gas Storage Unit project area should be implemented in accordance with the Special Project Rules and Operating Procedures, as described above.

IT IS THEREFORE ORDERED THAT:

(1) Pursuant to the application of Raptor Natural Pipeline LLC, special project rules and operating procedures for the Grama Ridge Morrow Gas Storage Unit Area in Lea County, New Mexico are hereby promulgated as follows:

SPECIAL PROJECT RULES AND OPERATING PROCEDURES FOR THE GRAMA RIDGE MORROW GAS STORAGE UNIT

RULE 1. Each newly drilled or recompleted well penetrating the Morrow formation in the area of the Grama Ridge Morrow Gas Storage Unit Project Area shall be drilled, operated, and produced in accordance with the Special Project Rules and Operating Procedures hereinafter set forth.

RULE 2. Provisions of these Special Project Rules and Operating Procedures shall apply to the Grama Ridge Morrow Gas Storage Unit Project Area (the "Unit Project Area" or "Unit Area"), defined as and consisting of the following described acreage in Lea County, New Mexico:

GRAMA RIDGE MORROW GAS STORAGE UNIT PROJECT AREA

Township 21 South, Range 34 East, NMPM

Section 33: All Section 34: All

Township 22 South, Range 34 East, NMPM

Section 3: All Section 4: All Section 10: All.

RULE 3. For purposes of these Special Project Rules

and Operating Procedures, the "Unitized Formation," as to State lands, is defined by that April 25, 1973, Unit Agreement For The Operation Of The Grama Ridge Morrow Unit Area, Lea County, New Mexico, as amended, and consists of "[t]hat subsurface portion of the unit area commonly known as the Morrow sands which is the same zone as [sic] the top and bottom of which were encountered at log depths of 12,722 feet and 13,208 feet respectively, in the Shell Oil Company State GRA Well No. 1 (API No. 30-025-21336), as shown on the Schlumberger Sonic Log B Gamma Ray Log of said well dated July 5, 1965, which well is located 1980 feet from the North line and 660 feet from the West line (Unit E) of Section 3, Township 22 South, Range 34 East, NMPM, Lea County, New Mexico." As to State and fee lands, the Unit Area includes Sections 33 and 34, Township 21 South, Range 34 East, NMPM, and the NE/4 of Section 4 and all of Section 3, Township 22 South Range 34 East, NMPM. As to Federal lands, the "Unitized Formation" consists of the Morrow Formation underlying the "gas storage reservoir area" (also the Unit Area) in Section 4 (excluding the NE/4 of Section 4) and Section 10, Township 22 South, Range 34 East, NMPM, as defined in that November 24, 1975 Agreement for the Subsurface Storage of Gas, No. 14-08-0001-14277, as amended.

- RULE 4. For purposes of these Special Project Rules and Operating Procedures, the "Morrow Formation" is defined as the full extent of the vertical limits of the Morrow formation. The "Unit Operator" is defined as the operator of the Grama Ridge Morrow Gas Storage Unit Area.
- <u>RULE 5</u>. Operators other than the Unit Operator proposing to drill a new well or recomplete an existing well penetrating or that may penetrate the Morrow Formation within the Unit Project Area of the Grama Ridge Morrow Gas Storage Unit, as defined above, shall:
 - (a) provide the Unit Operator with advance written notification of intent to drill at the sooner of the date of filing of APD, C-101 and

- C-102 forms, or thirty (30) days prior to commencing drilling operations;
- (b) on commencement of drilling operations, provide the Unit Operator with the following information within twenty-four (24) hours of its availability:
 - daily drilling reports, including detailed time breakdown and other parameters normally associated with IADC daily drilling reports; and
 - (ii) the anticipated date and time when the top of the Morrow formation will be encountered by the drill bit; and
- (c) provide the Unit Operator with copies of all logs run on the well within twenty-four (24) hours of their availability and before casing is set.
- RULE 6. For each well penetrating the Morrow formation within the boundaries of the Unit Project Area and completed above the top of Unitized Formation, the operator shall:
 - in the event of a cased hole into or through the Unitized Formation, isolate the Unitized Formation by squeezing cement immediately above and below (if penetrated) the Unitized Formation and immediately below the operator's deepest completion interval, run a cement bond log, and then fill the casing with cement to a level higher than the top of the Unitized Formation; and
 - (b) in the case of an open hole into or through the Unitized Formation with casing set above the Unitized Formation:

- (i) if the hole total depth is within the Unitized Formation, fill the hole with cement to a level 20 feet higher than the top of the Unitized Formation; and
- (ii) if the hole total depth is below the bottom of the Unitized Formation, set a bridge plug at a depth 20 feet below the bottom of the Unitized Formation and fill the hole with cement from the bridge plug to a level 20 feet higher than the top of the Unitized Formation.
- RULE 7. For each well penetrating the Morrow Formation and completed below the base of the Unitized Formation within the boundaries of the Unit Project Area, the operator shall:
 - (a) squeeze cement immediately above the perforation interval, squeeze cement immediately below the Unitized Formation and squeeze cement immediately above the Unitized Formation; and
 - (b) provide the Unit Operator with a cement bond log to document bond on all squeeze jobs.
- RULE 8. For each exploratory well penetrating the Morrow Formation that is to be plugged and abandoned without casing, the operator shall fill the hole with cement from a bridge plug set at 20 feet below the base of the Unitized Formation (if applicable) to a level 20 feet above the top of the Unitized Formation.
- RULE 9. The Unit Operator, on the request of an operator providing information and materials pursuant to Rule 5 (a) through (c) above or any other applicable provision of these Special Project Rules and Operating Procedures, shall

treat all or any part of such information and materials as confidential and shall prevent their release to any third party, except that this confidentiality provision shall not cover such information and materials that: (i) are or become generally available to the public other than as a result of a disclosure by the Unit Operator or an affiliate in violation of this provision; (ii) the Unit Operator or an affiliate already possessed on a non-confidential basis; or (iii) the Unit Operator or an affiliate is obligated to disclose by law, subpoena, or the order of a court or other governmental entity having jurisdiction.

RULE 10. Completions within the Unitized Formation underlying the Unit Project Area by anyone other than the Unit Operator are prohibited.

RULE 11. These Special Project Rules and Operating Procedures shall not apply to any well that does not penetrate the Morrow Formation within the Grama Ridge Morrow Gas Storage Unit Project Area.

- (2) The Special Project Rules and Operating Procedures for the Grama Ridge Morrow Gas Storage Unit Area shall become effective May 1, 2001.
- (3) Jurisdiction of this case 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.

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STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

UNIT AGREEMENT FOR THE OPERATION OF THE GRAMA RIDGE MORROW UNIT AREA LEA COUNTY, NEW MEXICO

SIGNEDENT

NW

THIS AGREEMENT entered into as of the 25th day of April,
1973 by and between the parties subscribing, ratifying or consenting
hereto, and herein referred to as the "parties hereto".

WITNESSETH:

WHEREAS, the parties hereto are the owners of working, royalty or other oil or gas interests in the unit area subject to this agreement; and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico (hereinafter referred to as "Commissioner") is authorized by law to consent to and approve the operation of state lands under agreements made by lessees of state lands jointly or severally with other lessees where such agreements provide for the unit operation of part of or all of any oil or gas pool, field or area (Section 7-11-39, 7-11-40 N.M.S.A. 1953 Comp.); and

WHEREAS, the Commissioner of Public Lands of the State of New Mexico is authorized by law to amend with the approval of lessee, evidenced by lessee's execution of such agreement or otherwise, any oil and gas lease embracing state lands so that the length of the term of said lease may coincide with the term of such agreement for the unit operation of part or all of any oil or gas pool, field or area (Section 7-11-41 N.M.S.A. 1953 Comp.); and

WHEREAS, the Oil Conservation Commission of the State of New Mexico (hereinafter referred to as "Commission") is authorized by law to approve this agreement and the conservation provisions thereof (Art. 3, Chap. 65, Vol. 9, Part 2 N.M.S.A. 1953 Comp.); and

WHEREAS, the parties hereto hold sufficient interest in the Grama Ridge Morrow Unit Area covering the lands hereinafter described

to give reasonably effective control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to conserve
natural resources, prevent waste, store gas and secure other benefits
obtainable through development and operation of the area subject to

this agreement under the terms and conditions and limitations herein set forth.

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this agreement their respective interests in the below defined unit area, and agree severally among themselves as follows:

1. UNIT AREA: The following described land is hereby designated and recognized as constituting the unit area:

Township 21 South, Range 34 East, N.M.P.M.

Section 34 - All

Township 22 South, Range 34 East, N.M.P.M.

Section 3 - All

containing 1287.16 acres, more or less.

Exhibit "A" attached hereto is a map showing the unit area and the boundaries and identity of tracts and leases in said area to the extent known to the unit operator. Exhibit "B" attached hereto is a schedule showing to the extent known to the unit operator the acreage, percentage and kind of ownership of oil and gas interests in all lands in the unit area. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest or interests as are shown on said map or schedule as owned by such party. Exhibits "A" and "B" shall be revised by the unit operator whenever changes in ownership in the unit area render such revisions necessary or when requested by the Commissioner.

All land committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement".

- 2. UNITIZED SUBSTANCES: All oil, gas, natural gasoline and associated fluid hydrocarbons in the unitized formation as hereinafter defined are unitized under the terms of this agreement and herein are called unitized substances.
- That subsurface portion of the unit area commonly known as the Morrow sands which is the same zone as the top and bottom of which were encountered at log depths of 12,722 feet and 13,208 feet in the Shell Oil Company State GRA Well No. 1 as shown on the Schlumberger Sonic Log Gamma Ray Log of said well dated July 5, 1965, which said well is located 1980 feet from the North line and 660 feet from the west line of Section 3, Township 22 South, Range 34 East, is unitized under this agreement and is hereinafter referred to as the "unitized formation".
- 4. UNIT OPERATOR: Llano, Inc. with offices at Hobbs, New Mexico (P.O. Drawer 1320) is hereby designated as unit operator and by signature hereto commits to this agreement all interest in unitized substances vested in it as set forth on Exhibit "B" and agrees and consents to accept the duties and obligations of unit operator for the operation of the Grama Ridge Morrow Unit Area. Whenever reference is made herein to the unit operator, such reference means the unit operator acting in that capacity and not as an owner of interests in unitized substances, and the term "working interest owner" when used herein shall include or refer to unit operator as the owner of a working interest when such interest is owned by it.
- 5. RESIGNATION OR REMOVAL OF UNIT OPERATOR: Unit operator shall have the right to resign at any time, but such resignation shall not become effective until a successor unit operator has been selected and approved in the manner provided for in Section 6 of this agreement. The resignation of the unit operator shall not release the unit operator from any liability or any default by it hereunder occurring prior to the effective date of its resignation.

Unit operator may, upon default or failure in the performance of its duties or obligations hereunder, be subject to removal by the same percentage vote of the owners of working interests determined in like manner as herein provided for the selection of a new unit operator. Such removal shall be effective upon notice thereof to the Commissioner.

The resignation or removal of the unit operator under this agreement shall not terminate his right, title or interest as the owner of a working interest or other interest in unitized substances, but upon the resignation or removal of unit operator becoming effective, such unit operator shall deliver possession of all equipment, materials and appurtenances used in conducting the unit operations and owned by the working interest owners to the new duly qualified successor unit operator, or to the owners thereof if no such new unit operator is elected, to be used for the purpose of conducting unit operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment and appurtenances needed for the preservation of any wells.

shall resign as unit operator or shall be removed as hereinabove provided, the owners of the working interests according to their respective acreage interests in all unitized land shall by a majority vote select a successor unit operator; provided that, if a majority but less than seventy-five percent (75%) of the working interests qualified to vote is owned by one party to this agreement, a concurring vote of sufficient additional parties, so as to constitute in the aggregate not less than seventy-five percent (75%) of the total working interests, shall be required to select a new operator. Such selection shall not become effective until (a) a unit operator so selected shall accept in writing the duties and responsibilities of

unit operator, and (b) the selection shall have been approved by the Commissioner. If no successor unit operator is selected and qualified as herein provided, the Commissioner at his election may declare this unit agreement terminated.

- 7. ACCOUNTING PROVISIONS: The unit operator shall pay all costs and expenses incurred in conducting unit operations hereunder. In the event the ownership of the unitized formation should hereafter be divided or owned in whole or in part by parties other than unit operator, from and after such time unit operator shall pay in the first instance all costs and expenses incurred in conducting unit. operations hereunder, and such costs and expenses and the working interest benefits accruing hereunder shall be apportioned among the owners of the unitized working interests in accordance with an operating agreement entered into by and between the unit operator and the owners of such interests, whether one or more, separately or collectively. Any agreement or agreements entered into between the working interest owners and the unit operator as provided in this section, whether one or more, are herein referred to as the "Operating Agreement". No such agreement shall be deemed either to modify any of the terms and conditions of this unit agreement or to relieve the unit operator of any right of obligation established under this unit agreement and in case of any inconsistencies or conflict between this unit agreement and the operating agreement, this unit agreement shall prevail.
- 8. RIGHTS AND OBLIGATIONS OF UNIT OPERATOR: Except as otherwise specifically provided herein, the exclusive right, privilege and duty of exercising any and all rights of the parties hereto which are necessary or convenient for producing, storing, allocating and distributing the unitized substances are hereby delegated to and shall be exercised by the unit operator as herein provided.

Acceptable evidence of title to said rights shall be deposited with said unit operator and, together with this agreement, shall constitute and define the rights, privileges and obligations of unit operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this agreement the unit operator, in its capacity as unit operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

9. PURPOSE OF UNIT AND PLAN OF OPERATION: It is recognized and agreed by the parties hereto that the unitized formation as to all of the lands subject to this agreement is reasonably proven to be productive of unitized substances or necessary for unit operations and that the object and purpose of this agreement is to formulate and put into effect a secondary recovery and gas storage project in order to effect the greatest economic recovery of unitized substances, prevent waste and conserve natural resources consistent with good engineering practices expected of a prudent operator. The parties hereto agree that the unit operator may, subject to the approval of a plan of operation by the Commissioner, inject gas produced from lands other than the unit area into the unitized formation through the Shell Oil Company State GRA Well No. 1 located in the SW\nW\f Section 3, Township 22 South, Range 34 East and the Shell State GRB Well No. 1 located in the NW4SW4 Section 34, Township 21 South, Range 34 East for secondary recovery and storage purposes. Unit operator shall furnish the Commissioner, between the first and twentieth of each month, reports showing the amount of gas produced and injected into the unitized formation for the preceding month.

A plan of operation shall be filed with the Commissioner concurrently with the filing of this unit agreement for final approval. Said plan of operation and all revisions thereof shall be as complete

and adequate as the Commissioner may determine to be necessary in connection with operations hereunder. Upon approval of this agreement and the aforementioned plan of operation by the Commissioner, said plan and all subsequently approved plans shall constitute the operating obligations of the unit operator under this agreement for the period specified in the plan. Thereafter, from time to time before the expiration of any existing plan, the unit operator shall submit for approval a plan for an additional specified period of operation. Reasonable diligence shall be exercised in complying with the obligations of the approved plan of operation. The unit operator shall furnish to the Commissioner, within 30 days from the expiration of each 6 month period, a report giving full factural information as to the manner in which the plan in effect for such period has been carried out.

If the unit operator should fail to comply with any approved plan of operation or supplement to or modification thereof, this agreement may be terminated by the Commissioner; provided, however, the Commissioner shall give notice to the unit operator and the lessees of record in the manner prescribed by Section 7-11-14 N.M.S.A. 1953 of intention to cancel because of any alleged breach of said plan of operation and any decision entered therein shall be subject to appeal in the manner prescribed by Section 7-11-17 N.M.S.A. 1953; and provided further in any event unit operator shall be given a reasonable opportunity after a final determination within which to remedy said default, failing in which this agreement shall be terminated.

10. TRACT PARTICIPATION: Exhibit "B" attached hereto shows the percentage of participation of each of the tracts embraced by leasehold interests which are committed to this agreement. These participation factors have been obtained by dividing the number of acres contained in each tract by the total number of acres contained in the unit area.

The unitized substances produced from the unit area shall be allocated to the respective tracts as hereinafter set forth in accordance with said percentages of participation and such unitized substances shall be deemed to have been produced from the respective tracts to which allocated.

11. ALLOCATION OF PRODUCTION:

PHASE I: It is recognized that there is still some primary gas and liquid hydrocarbons left in the unitized formation underlying the unit area which would otherwise be produced in the normal producing life of the existing wells before they reach their economic limit upon which the state would be entitled to royalty. It is contemplated that gas produced from lands outside the unit area will be injected into the unitized formation for a considerable length of time before any appreciable amounts of gas are withdrawn. The primary production which would normally have been produced from May 1, 1975 to its economic limit has been determined by B.H.P/2 method pased upon prior production, and Exhibit "C" attached hereto shows the royalty gas to which the state is entitled. In order that the State of New Mexico will continue to receive royalties on the same basis as if the existing wells had continued normal production until they reached their economic limits, the amount of gas shown for the respective months on Exhibit "C" shall be allocated to the tracts in accordance with the percentages set forth on Exhibit "B" and unit operator. shall pay to the state royalties on the gas allocated to the respective tracts on the basis provided in the leases covering said tracts exactly the same as if the gas had actually been produced therefrom. Such payments based upon the gas for each of the months, shown on Exhibit "C" shall be considered as full payment to the state for all remaining primary gas reserves. The period from May 1, 1973 through the months motor of the shown on Exhibit "C" shall constitute Phase I.

B. PHASE II: It is contemplated that after the unitized formation has been reasonably repressured by the injection of gas produced from lands outside the unit area, there will be withdrawals from time to time. Unit operator shall install and at all times operate and maintain metering equipment and other facilities approved by the Commissioner so that an accurate cumulative account can be kept of the quantity of gas gas as well as the total number of British Thermal Units in the gas injected into the unitized formation through the existing wells. Operator shall also keep an accurate cumulative account of the total number of British Thermal Units in all gas withdrawn from the unitized formation.

Operator shall also install, operate and maintain at all times the necessary separation equipment to separate the gas from the liquid hydrocarbons produced in connection with the withdrawal of gas from the respective wells, as well as all other related equipment which may be required to transfer all liquids so separated.

Operator shall cause monthly analyses by chromatograph or other mutually acceptable method of all the gas injected into or withdrawn from the reservoir in order to compute the net change in British Thermal Unit content.

Operator shall pay royalties to the state at the rates provided in the respective leases on all liquid hydrocarbons which are separated from the gas withdrawn and allocated to the respective tracts in accordance with the percentages of participation set forth on Exhibit "B" regardless of the time said gas is withdrawn. In addition, should the total cumulative British Thermal Units in the gas withdrawn exceed the total British Thermal Units in the gas

injected plus the pre-determined number of British Thermal Units in the remaining primary gas reserves and for which the state has been or will be paid during Phase I, then operator shall pay royalties on said increase in British Thermal Units at the prevailing market price in Lea County, New Mexico as set by the Federal Power Commission for gas of like quality. Payment for British Thermal Unit enrichment as set forth herein shall be made on a monthly basis as the result of the chromatograph analyses.

In addition to the rental and royalty provided in the leases covering the respective tracts beginning with the first of the month following the end of Phase I as shown on Exhibit "C" unit operator shall pay an annual storage fee or rental of \$1.00 per acre plus 1/2¢ per thousand cubic fee of gas withdrawn from the reservoir, which shall be allocated to the respective leasehold interests on the basis of the percentage of participation set forth on Exhibit "B". Said storage fee or additional rental of \$1.00 per acre shall be paid during the month of February of each year and the 1/2¢ per thousand cubic feet for gas withdrawn shall be based on the monthly withdrawls, payments to be made in the month following the month in which withdrawals are made.

All gas produced from the lands outside the unit area and injected into the unitized formation, as well as all primary gas if, as and when produced, except for the payments to be made to the state in accordance with Phase I, may be withdrawn from the unitized formation from time to time royalty free except as to any enhancement in value through an increase in British Thermal Units. Notwithstanding the above, royalty shall be paid on all liquid hydrocarbons separated from gas withdrawn.

12. LEASES AND CONTRACTS CONFORMED AND EXTENDED. The terms, conditions and provisions of all leases, subleases, operating agreements and other contracts relating to the exploration, drilling,

development or operation for oil or gas of the lands committed to this agreement shall, as of the effective date hereof, be and the same are hereby expressly modified and amended insofar as they apply to lands within the unitized area to the extent necessary to make the same conform to the provisions hereof and so that the respective terms of said leases and agreements will be extended insofar as necessary to coincide with the term of this agreement and the approval of this agreement by the Commissioner and the respective lessees shall be effective to conform the provisions and extend the term of each such lease as to lands within the unitized area to the provisions and term of this agreement; but otherwise to remain in full force and effect. Each lease committed to this agreement, insofar as it applies to lands within the unitized area, shall continue in force beyond the term provided therein so long as this agreement remains in effect. Termination of this agreement shall not affect any lease which pursuant to the terms thereof or any applicable laws would continue in full force and effect thereafter. The continued operation or production of a well or wells for unitized substances on the unit area or for gas storage purposes shall be construed and considered as the continued operation or production on each of the leasehold interests committed to this agreement and operations or production or gas storage pursuant to this agreement shall be deemed to be operations upon and production from each leasehold interest committed hereto and there shall be no obligation on the part of the unit operator or any of the owners of the respective leasehold interests committed hereto to drill offsets to wells as between the leasehold interests committed to this agreement.

Any lease embracing lands of the State of New Mexico having only a portion of its lands committed hereto shall be segregated as to the portion committed and the portion not committed and the terms of such leases shall apply separately as to such segregated portions

commencing as of the effective date hereof. Notwithstanding any of the provisions of this agreement to the contrary, any lease embracing lands of the State of New Mexico having only a portion of its lands committed hereto shall continue in full force and effect beyond the term provided therein as to all lands embraced in such lease if oil and gas, or either of them, are capable of being produced from or gas is being stored within some part of the unitized formation covered by the leases committed to this agreement at the expiration of the secondary term thereof.

- 13. CONSERVATION: Operations hereunder and production of unitized substances shall be conducted to provide for the most economical and efficient recovery and storage of said substances without waste, as defined by or pursuant to state laws or regulations.
- 14. <u>DRAINAGE</u>: In the event a well or wells producing oil or gas in paying quantities should be brought in on land adjacent to the unit area draining unitized substances from the lands embraced therein, unit operator shall drill such offset well or wells as a reasonably prudent operator would drill under the same or similar circumstances.
- be construed to be covenants running with the land with respect to the interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer or conveyance of interest in land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder by the grantee, transferee or other successor in interest. No assignment or transfer of any working, royalty or other interest subject hereto shall be binding upon unit operator until the first day of the calendar month after the unit operator is furnished with the original, photostatic or certified copy of the instrument of transfer.

- effective as of April 25, 1973 upon approval by the Commissioner and shall remain in effect so long as unitized substances are being produced from or stored within the unitized formation. This agreement may be terminated at any time by not less than seventy-five per cent (75%) on an acreage basis of the owners of working interests signatory hereto with the approval of the Commissioner:
- 17. RATE OF PRODUCTION: All production and the disposal thereof shall be in conformity with allocations, allotments and quotas made or fixed by the Commission and in conformity with all applicable laws and lawful regulations.
- 18. APPEARANCES: Unit operator shall, after notice to other parties affected, have the right to appear for and on behalf of any and all interests affected hereby before the Commissioner of Public Lands and the New Mexico Oil Conservation Commission, and to appeal from orders issued under the regulations of the Commissioner or Commission or to apply for relief from any of said regulations or in any proceedings on its own behalf relative to operations pending before the Commissioner or Commission; provided, however, that any other interested party shall also have the right at his own expense to appear and to participate in any such proceeding.
- 19. NOTICES: All notices, demands or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if given in writing and sent by postpaid certified mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party may have furnished in writing to party sending the notice, demand or statement.
- 20. UNAVOIDABLE DELAY: All obligations under this agreement requiring the unit operator to produce unitized substances from or

- effective as of April 25, 1973 upon approval by the Commissioner and shall remain in effect so long as unitized substances are being produced from or stored within the unitized formation. This agreement may be terminated at any time by not less than seventy-five per cent (75%) on an acreage basis of the owners of working interests signatory hereto with the approval of the Commissioner.
- 17. RATE OF PRODUCTION: All production and the disposal thereof shall be in conformity with allocations, allotments and quotas made or fixed by the Commission and in conformity with all applicable laws and lawful regulations.
- 18. APPEARANCES: Unit operator shall, after notice to other parties affected, have the right to appear for and on behalf of any and all interests affected hereby before the Commissioner of Public Lands and the New Mexico Oil Conservation Commission, and to appeal from orders issued under the regulations of the Commissioner or Commission or to apply for relief from any of said regulations or in any proceedings on its own behalf relative to operations pending before the Commissioner or Commission; provided, however, that any other interested party shall also have the right at his own expense to appear and to participate in any such proceeding.
- 19. NOTICES: All notices, demands or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if given in writing and sent by postpaid certified mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party may have furnished in writing to party sending the notice, demand or statement.
- 20. UNAVOIDABLE DELAY: All obligations under this agreement requiring the unit operator to produce unitized substances from or

store gas within the unitized formation covered by this agreement shall be suspended while, but only so long as, the unit operator, despite the exercise of due care and diligence, is prevented from complying with such obligations, in whole or in part, by strikes, war, acts of God, federal, state or municipal law or agencies, unavoidable accidents, uncontrollable delays in transportation, inability to obtain necessary materials in open market, or other matters beyond the reasonable control of the unit operator, whether similar to matters herein enumerated or not.

- 21. LOSS OF TITLE: In the event title to any tract of unitized land or substantial interest therein shall fail and the true owner cannot be induced to join the unit agreement so that such tract is not committed to this agreement or the operation thereof hereunder becomes impracticable as a result thereof, such tract may be eliminated from the unitized area, and the interest of the parties readjusted as a result of such tract being eliminated from the unitized area. In the event of a dispute as to the title to any royalty, working or other interest subject hereto, the unit operator may withhold payment or delivery of the allocated portion of the unitized substances involved on account thereof without liability for interest until the dispute is finally settled, provided that no payment of funds due the State of New Mexico shall be withheld. Unit operator as such is relieved from any responsibility for any defect or failure of any title hereunder.
- 22. RE-NEGOTIATION OF STORAGE OR RENTAL FEE: The gas storage fee paid on gas withdrawn under Section 11B shall be valid for a period of three (3) years from the effective date of this agreement. During the final year of the first three (3) year period that this agreement is in force the fee set out in Section 11B shall be re-negotiated between the parties hereto, each such re-negotiated rate to be in effect for the succeeding five (5) year period. If the parties hereto are unable to agree to re-negotiated new fees sixty (60) days prior to the

expiration of the first three (3) year period and at least sixty (60) days prior to the first day of any such succeeding five (5) year period, payment of the fees on the basis of prior rates shall continue and this agreement shall terminate upon expiration of not more than two (2) years from said first day (during which time the parties hereto may remove the metered and injected gas not previously withdrawn and equipment and facilities installed under this agreement) unless during such two (2) year period the parties hereto agree upon a re-negotiated rate to be effective retroactively to said first day. Any gas or facilities not then removed by the termination date shall become the property of the State of New Mexico if it so elects.

- 23. <u>HOLD HARMLESS CLAUSE</u>: Notwithstanding any of the provisions contained herein, unit operator shall save, hold and protect the Commissioner of Public Lands and the State of New Mexico harmless from all claims and liabilities of whatsoever kind, nature or description arising from or growing out of operations carried on by unit operator pursuant to this agreement.
- 24. COUNTERPARTS: This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument in writing specifically referring hereto, and shall be binding upon all those parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described unit area.

IN WITNESS WHEREOF, the undersigned parties have caused this agreement to be executed as of the respective dates set forth opposite their signatures.

| ACTEST: | By R Mathamy |
|--------------------|-------------------------------------------------------|
| secretary | Predident UNIT OPERATOR AND WORKING INTEREST OWNER |
| Date: June 7, 1973 | UNIT OPERATOR AND WORDING INTEREST CHARM |
| | Address: P. O. Box 1320 |
| | Hobbs, New Mexico 88240 |

LESSEES OF RECORD

| | ••• |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| | |
| LESSEES | OF RECORD |
| Secretary | By A Resident |
| Date: 8/22/73 | Address: P. O. Box 1320 |
| | Hobbs, New Mexico 88240 |
| ATTEST: | GULF OIL CORPORATION By 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Asst. Secretary (Date: 7-26-73 | Attorne in-Fact Address: P. O. Box 1150 |
| | Midland, TX 79701 |
| ATTEST: | TEXACO INC. |
| Secretary | By SEE PAGE 16-A President |
| Date: | Address: |
| STATE OF NEW MEXICO) | |
| COUNTY OF LEA) | |
| day of J_{time} 1973 by R_{e} R_{e} | was acknowledged before me this 7th Montgomery President of ation, on behalf of said corporation. |
| My Commission Expires: | Fours I Street at 1 |
| October 30, 1976 | Notary Public |
| STATE OF NEW MEXICO) | No. 18 April 1985 |
| COUNTY OF LEA) | (A) (X) |
| day of lucust 1973 by R. | was acknowledged before me this 22 F. Montgomery President |
| of said corporation. Llano, inc. | my, a Delware corporation, on behalf |
| My Commission Expires: | Notary Public |
| STATE OF TEXAS) | |
| COUNTY OF MIDLAND | V (Th) |
| The foregoing instrument | was admovioused before we this 2 0 |
| day of 1973 by W. B. of Colf Oil Corporation. | was acknowledged before me this 2 c HOPKINS, Attorney-in-Fact on, a Pennsylvania corporation, on |
| day of 1973 by 197. B. of Culf Oil Corporation. My Commission Expires: | HOPKINS , Attorney-in-Fact on, a Pennsylvania corporation, on Notary Public |

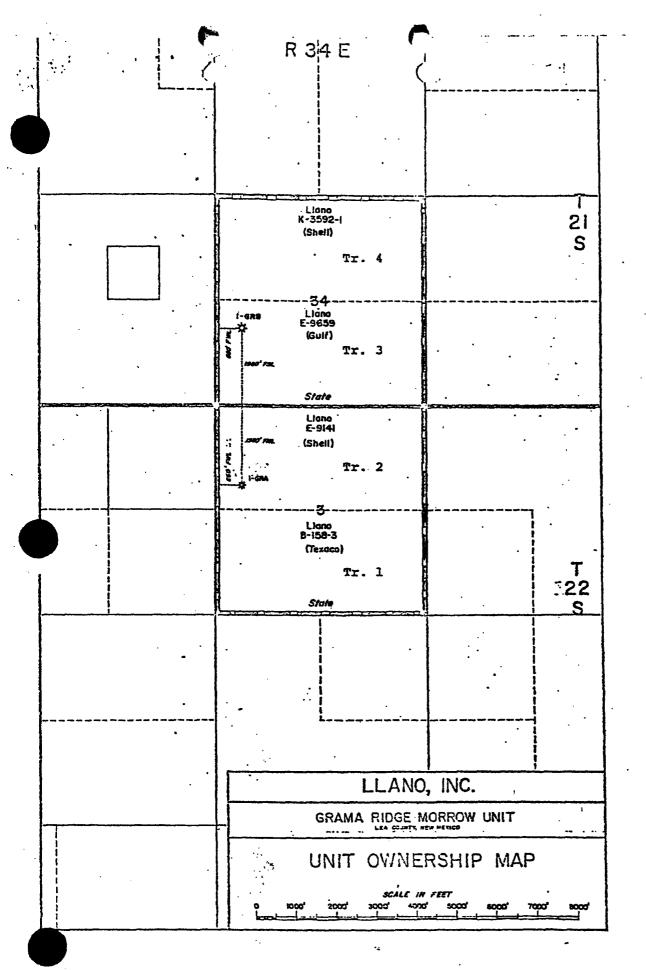
CONSENT AND RATIFICATION
GRAMA RIDGE MORROW UNIT AGREEMENT
EMBRACING LANDS IN LEA COUNTY, NEW MEXICO

The undersigned hereby acknowledges receipt of a copy of the Unit Agreement for the Development and Operation of the Grama Ridge Morrow Unit Area embracing lands situated in Lea County, New Mexico, which is dated the 25th day of April, 1973, and further acknowledges that the undersigned is familiar with the terms and conditions thereof. As to unitized substances in the unitized formation defined in said Unit Agreement, the undersigned owns no interest whatsoever. However, the undersigned does own the official record title to an oil and gas lease from the State of New Mexico as lessor, which lease is more particularly described in said Unit Agreement. Said lease is subject to certain operating rights and working interest owned by another. The undersigned understands that the owner of said operating rights and working interest desires to commit the same to said Unit Agreement. Pursuant to policies and practices of the State Land Office for the State of New Mexico, the Commissioner of Public Lands for the State of New Mexico requires consent and joinder of the offical record title holders or lessees of record of State of New Mexico oil and gas leases before the Commissioner will approve the above Unit Agreement. In its capacity as owner of the official record title, or as lessee of record, to a State of New Mexico oil and gas lease, and in that capacity only, and as an accommodation to said owner of operating rights and working interest under said lease, the undersigned desires to consent, ratify and join in the execution of said Unit Agreement. By these presents the undersigned does hereby. consent to said Unit Agreement and ratifies all of the terms and provisions thereof exactly the same as if the undersigned had executed the original of said Unit Agreement, or a counterpart thereof, in the undersigned's capacity as official record title holder or lessee of record of a State of New Mexico oil and gas lease.

IN WITNESS WHEREOF, this instrument is executed by the undersigned as of the date set forth opposite the signature.

| 7 | TEXACO INC. | |
|--------------------------------------------|--------------------------------|--------------|
| | BY: ATTORNEY-IN-FACT | |
| STATE OF TEXAS)) ss. COUNTY OF MIDLAND) | | Terms B.W.L. |
| day of <u>Yuly</u> , 1973, | ACO INC., a Delaware corpor | |
| My Commission Expires: | Barkara F. The Notary Public O | |

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|-------------------------------------------------------|----------------------------|-------------------------------------|--------------|-------------|--|
| ATE OF | _) | | | | |
| UNTY OF | _: \$5 _) | | | | |
| The foregoing of January, 1973 Texaco Inc., a ration. | ng instrument wa 3 byco | s acknowledged be rporation, on beh | fore me this | | |
| Commission Expire | es: | Notary Pu | nlic . | | |
| | | MOCALY FO | DIIC | | |



GRAMA RIDGE MORROW UNIT AGREEMENT

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|---------|------------------------------------------|------------------------------------------------|------------------------------|----------------------------------|-----------------------------------------|
| al | S. YN | s s | • | | ř |
| | Ny Sec. 34, ' S., R. 34 E. | Sty Sec. 34, S., R. 34 E. | Ny Sec. 3, T S., R. 34 E. | R 3 | Desci |
| | E 1 | S' ₃ Sec. 34, T. 21 S., R. 34 E. | 3, H. | Sy Sec. 3, T. 22 S., R. 34 E. | Description |
| | . 21 | . 21 | 22 | 22 | |
| 1287.16 | Ny Sec. 34, T. 21 320.00 S., R. 34 E. | 320.00 | 327.16 | 320.00 | No. Surface Acres |
| | K-3592-1 | 是-9659 | E-9141 | B-158-3 | Lease No. |
| | 1248 | 1258 | 1248 | 1248 | Basic . Royalty |
| | Shell Oil Company | Gulf Oil Corporation | Shell Oil Company | Texaco Inc. | Lessee of Record |
| | None | None | None | None | Overriding Royalty or Prod. Pymt. |
| | Llano, Inc. 100% | Llano, Inc. 100% | Llano, Inc. 100% | Llano, Inc. 100% | Working I |
| | Inc. | Inc. | Inc. | Inc. | Working Int. Owner and Percentage |
| | 100% | 100% | 100% | 100% | i te |
| 100.000 | 24.861 | 24.861 | 25.417 | 24.861 | Percentage Tract Parti- cipation |

EXHIBIT "C"

| • | ▼" | | | | | • | | | | | | • | |
|---------------------------------------------------------------------------|-------------------------------|--------|--------|------------|----------------|-----------------|-----------------------------------------------------------------------------------|--------------|-------|--------------|--------------------------|------------|---------------------------------------------------------------|
| Jan. Feb. Mar. April May June July Aug. Sept. Soot. | <u>η</u> ith | | | Cum. | rötal | Dec. | | , t. | July | May June | Month | - | |
| 350 345 340 330 325 310 305 305 295 290 780 | Equivalent Gas Production MCF | | , | 12,310 | 12,310 | 1,090 | 1,450 | 1,510 | 1,660 | 1,860 | Froduction NCF | Equivalent | 1 |
| Jan. Feb. | 1: Month | Cum. | Total | Dec. | Oct. | Aug. | June | May | Mar. | Jan. Feb. | Month | ,- | e Royalty |
| 270 270 | Equivalent Gas Production MCF | 23,560 | 11,250 | 825 | 860 | 900 | 9 55 50 50 50 50 50 50 50 50 50 50 50 50 5 | 960 | 1,010 | 1,060 | Production MCF | Equivalent | Production - B |
| | | Cum. | Total | Dec. | Oct. | Aug. | June | Мау | Mar. | Jan. Feb. | Month | | HP/Z Metho |
| . , | | 32,115 | 8,555 | 625 | 650 | 0000 | 710 | 740 | 775 | 810 790 | Gas Production MCF | Equivalent | Composite Royalty Production - BHP/Z Method - Grama Ridge Mor |
| | · | Cum. | Total | Nov. | Oct. | Aug. | June | May | Mar. | Jan. | Month | 19/61 | Morrow Uni |
| | | 38,575 | 6,460 | 490 475 | ± 25 € 10 € | 510 000 | 540 | 550 | 590 | 610 610 | Production MCF | EQ. | row Unit Area, Lea County, New Mexico |
| | 18.5 19.5 | Cum. | Total | Nov. | Sept. | Aug. | June | Aprıı May | Mar. | Jan. Feb. | Month | | unty, New |
| | | 43,485 | 4,910 | 370 360 | 390 375 | 395 395 5 | 410 | 425 425 | 445 | 460 450 | Production MCF | Equivalent | Mexico |

Dec: Total

. 45

Total

I, Dwight P. Teed, Secretary of Llano, Inc. do hereby certify that the Agreement attached hereto, consisting of sixteen (16) pages and exhibits and entitled "Unit Agreement For The Operation Of The Grama Ridge Horrow Unit Area, Lea County, New Mexico", entered into on April 25, 1973, is a true and correct copy of said Agreement.

Dwight P. Teed, Secretary

CERTIFICATE OF APPROVAL

BY COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO

AMENDMENT OF UNIT AGREEMENT

GRAMA RIDGE-MORROW UNIT

LEA COUNTY NEW MEXTCO

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, the attached Amendment of Unit Agreement for the development and operation of the Grama Ridge-Morrow Unit Area, Lea County, New Mexico for the purpose of expanding the Unit Area.

The attached Amendment of Unit Agreement was entered into as of September 1, 1976 by and between the parties to the original Unit Agreement for the purpose of expanding the unit area to include all of Section 33, Township 21 South, Range 34 East, N.M.P.M. The Amendment also ratifies and confirms the Original Unit Agreement as amended and upon examination of said Amendment, the Commissioner finds:

- (a) That such Amendment to this Agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed amended Agreement the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such Agreement is in other respects for the best interests of the State, with respect to State lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 7-11-39, 7-11-40, 7-11-41, 7-11-47, and 7-11-48, New Mexico Statutes Annotated, 1953 Compilation, I, the undersigned, Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Amendment, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

| | IN WITNESS | WHEREOF, | this | Certificate | of Appr | oval i | s execut ed | , with | seal | affixed |
|------|------------|----------|------|-------------|-------------|--------|--------------------|--------|------|---------|
| this | 26th. | day | o£ | January | | , 1977 | • | | | |

COMMISSIONER OF PUBLIC LANDS
Of the State of New Mexico

AMENDMENT TO UNIT AGREEMENT FOR OPERATION OF THE GRAMA RIDGE-MORROW UNIT AREA LEA COUNTY, NEW MEXICO



THIS AMENDMENT entered into as of the first day of September, 1976, by and between the parties subscribing, ratifying or consenting hereto and herein referred to as the "parties hereto".

WHEREAS, as of April 25, 1973 the Unit Agreement for the Operation of the Grama Ridge-Morrow Unit Area was entered into by and between Llano, Inc. as unit operator and as a working interest owner and by Gulf Oil Corporation and Texaco Inc. as record title owners of oil and gas leases embracing lands in the unit area, which said agreement was approved by the Commissioner of Public Lands of the State of New Mexico, herein referred to as "Commissioner", on August 27, 1973, and

WHEREAS, the original unit agreement covered all of Section 34, Township 21 South, Range 34 East and all of Section 3, Township 22 South, Range 34 East and was entered into for the purpose of formulating and putting into effect a secondary recovery and gas storage project as to the Morrow formation which was unitized under said agreement and which is specifically defined in Section 3 thereof, and

WHEREAS, the unit operator has injected gas into wells located on the unit area which has resulted in a pressure increase in the South Wilson Deep Unit No. 1 gas well producing from the unitized formation located in the NW%SE% Section 33, Township 21 South, Range 34 East and has likewise resulted in an increase in pressure in the Llano Federal GR-4 No. 1 Morrow gas well located in the SE%SE%NW% Section 4, Township 22 South, Range 34 East and such communication indicates that said wells are located in the same reservoir as the two gas wells within the unit area, which wells

have been used for the injection and withdrawal of gas pursuant to the terms of said unit agreement, and

WHEREAS, it now appears that the Morrow gas reservoir underlies Sections 33 and 34, Township 21 South, Range 34 East and Sections 3 and 4, Township 22 South, Range 34 East, and

WHEREAS, all of Section 33 is owned by the State of New Mexico except the SWANEA of said section which is fee land and the minerals underlying said 40 acres, subject to the existing lease, are owned 32.37% by Don E. Gridley and wife, Alice F. Gridley, John E. Bosserman and wife, Carol Jean Bosserman and 67.63% by The Merchant Livestock Company, and

WHEREAS, all of Section 4, Township 22 South, Range 34 East is federal land and Llano, Inc. has entered into an agreement with the United States, acting by and through the Secretary of the Interior, effective as of November 1, 1975 for the storage of gas in the Morrow formation which is unitized under the terms of said unit agreement. Said gas storage agreement with the United States recognizes that the gas reservoir underlies the 4 sections hereinabove referred to and also provides that all injection and withdrawal fees payable to the United States shall be based upon 1/4 of all gas injected or withdrawn from the reservoir through any wells located on the 4 sections above referred to, and

WHEREAS, it is the purpose of this amendment to expand the unit area to include all of Section 33, Township 21 South, Range 34 East so that the unit agreement, taken into consideration with the gas storage agreement with the United States covering Section 4, will cover the entire reservoir, and

WHEREAS, the unit agreement recognized that there was still some primary gas and liquid hydrocarbons left in the unitized formation when the unit agreement was entered into and said agreement provided for the payment of royalty thereon on a monthly basis beginning in May, 1974 through February, 1973 and the unit operator has agreed to pay in full all royalty payments provided for in Exhibit "C"

attached to the unit agreement, as well as the royalty for the remaining 318,519 MCF of primary gas and the liquid hydrocarbons attributable thereto underlying said Section 33 (15/16 of which is to be allocated to Tract 5 and 1/16 to Tract 6 shown on Exhibit "B") so that Phase I provided for in Section 11(a) of theoriginal agreement will no longer be applicable; and

WHEREAS, the parties are desirous of amending said unit agreement to provide for the same gas injection and withdrawal fees (on an average basis) as are provided under the terms of the gas storage agreement with the United States covering Section 4 as to 1/4 of the gas injected and withdrawn from said reservoir; subject, however, to the right of the unit operator to withdraw gas previously injected from extraneous sources up to and including August 31, 1976 amounting to 6,727,987 MCF at a pressure base of 15.025 psia without payment of withdrawal fees as to any portion thereof withdrawn prior to March 1, 1979.

NOW, THEREFORE, in consideration of the premises, the parties hereby mutually agree that the Unit Agreement for the Operation of the Grama Ridge-Morrow Unit Area shall be and is hereby amended as hereinafter set forth:

- 1. Section 1 of the unit agreement is amended as follows:
- 1. UNIT AREA: The following described land is hereby designated and recognized as constituting the unit area:

Township 21 South, Range 34 East, N.M.P.M.
Section 33 - All
Section 34 - All
Township 22 South, Range 34 East, N.M.P.M.
Section 3 - All
containing 1,927.16 acres, more or less

Exhibit "A" attached hereto is a map showing the unit area and the boundaries and identity of tracts and leases in said area to the extent known to the unit operator. Exhibit "B" attached hereto is a schedule showing to the extent known to the unit operator the acreage, percentage and kind of ownership of oil and gas interests

in all lands in the unit area. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest or interests as are shown on said map or schedule as owned by such party. Exhibits "A" and "B" shall be revised by the unit operator whenever changes in ownership in the unit area render such revisions necessary or when requested by the Commissioner.

All land committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement".

- 2. Section 9 of the unit agreement is amended as follows:
- 9. PURPOSE OF UNIT AND PLAN OF OPERATION: It is recognized and agreed by the parties hereto that the unitized formation as to all of the lands subject to this agreement is reasonably proven to be productive of unitized substances or necessary for unit operations and that the object and purpose of this agreement is to formulate and put into effect a secondary recovery and gas storage project in order to effect the greatest economic recovery of unitized substances, prevent waste and conserve natural resources consistent with good engineering practices expected of a prudent operator. The parties hereto agree that the unit operator may, subject to the approval of a plan of operation by the Commissioner, inject gas produced from lands other than the unit area into the unitized formation through the following wells for secondary recovery and storage purposes:

Shell Oil Company State GRA Well No. 1 - SW4NW4 Section 3 Township 22 South, Range 34 East (Llano, Inc. operator)

Shell State GRB Well No. - NW\sW\s Section 34, Township 21 South, Range 34 East (Llano, Inc. operator)

South Wilson Deep Unit No. 1 well - NW\se\ Section 33, Township 21 South, Range 34 East (Llano, Inc. operator)

Llano Federal GR-4 No. 1 Morrow - SEkSEkNWk Section 4, Township 22 South, Range 34 East (Llano, Inc. operator)

. . . . - - -

Unit operator shall furnish the Commissioner, between the first and twenty-fifth of each month, reports showing the amount of gas produced and injected into the unitized formation for the preceding month.

Unit operator shall have the right to rework or recondition
the wells now located on the unit area or to drill additional wells
to inject gas into or produce gas from the gas storage reservoir
area to the extent that such work shall be approved by the Commissioner
as necessary or incident to the rights granted to unit operator pursuant to this agreement. Unit operator shall conduct all operations
hereunder in accordance with all applicable laws and regulations and
shall comply with all the terms and conditions of the respective
leases.

A plan of operation shall be filed with the Commissioner concurrently with the filing of this unit agreement for final approval. Said plan of operation and all revisions thereof shall be as complete and adequate as the Commissioner may determine to be necessary in connection with operations hereunder. Upon approval of this agreement and the aforementioned plan of operation by the Commissioner, said plan and all subsequently approved plans shall constitute the operating obligations of the unit operator under this agreement for the period specified in the plan. Thereafter, from time to time before the expiration of any existing plan, the unit operator shall submit for approval a plan for an additional specified period of operation. Reasonable diligence shall be exercised in complying with the obligations of the approved plan of operation. The unit operator shall furnish to the Commissioner, within 30 days from the expiration of each 6 month period, a report giving full factual information as to the manner in which the plan in effect for such period has been carried out.

If the unit operator should fail to comply with any approved plan of operation or supplement to or modification thereof, this

agreement may be terminated by the Commissioner; provided, however, the Commissioner shall give notice to the unit operator and the lessees of record in the manner prescribed by Section 7-11-14 N.M.S.A. 1953 of intention to cancel because of any alleged breach of said plan of operation and any decision entered therein shall be subject to appeal in the manner prescribed by Section 7-11-17 N.M.S.A. 1953; and provided, further, in any event unit operator shall be given a reasonable opportunity after a final determination within which to remedy said default, failing in which this agreement shall be terminated.

- 3. Section 10 of the unit agreement is amended as follows:
- ment "extraneous gas" shall mean the total amount of gas from other sources injected into the reservoir less the amount which has been withdrawn. Any gas produced in excess of the extraneous gas injected prior to or after the effective date hereof shall be considered as "indigenous gas". All such indigenous gas shall be apportioned to the tracts within the unit area in the proportions set forth on Exhibit "B" attached hereto, which is based on the percentage that the acreage covered by each tract bears to the total acreage within the unit area. Royalties shall be paid to the State of New Mexico at the rates provided in the respective leases on all indigenous gas allocated to such tracts.
- 4. Section 11 of the unit agreement shall be amended as follows:
- 11. GAS STORAGE -- STORAGE, INJECTION AND WITHDRAWAL FEES:
- A. <u>Gas Storage</u>: It is contemplated that the extraneous gas which has been injected will be withdrawn from time to time. Unit operator shall be under no obligation to inject or withdraw any particular quantity of gas other than such as it in its sole discretion deems advisable. Unit operator shall install

and at all times operate and maintain metering equipment and other facilities approved by the Commissioner so that an accurate cumulative account can be kept of the quantity of gas, as well as the total number of British Thermal Units in the gas, injected into the unitized formation through the existing wells. Operator shall also keep an accurate cumulative account of the total number of British Thermal Units in all gas withdrawn from the unitized formation.

Operator shall also install, operate and maintain at all times the necessary separation equipment to separate the gas from the liquid hydrocarbons produced in connection with the withdrawal of gas from the respective wells, as well as all other related equipment which may be required to transfer all liquids so separated.

Operator shall cause monthly analyses by chromatograph or other mutually acceptable method of all gas injected into or withdrawn from the reservoir in order to compute the net change in British Thermal Unit content.

Operator shall pay royalties at the rates provided in the respective leases on 3/4 of all liquid hydrocarbons which are separated from the gas withdrawn and allocated to the respective tracts in accordance with the percentages of participation set forth on Exhibit "B"; provided, however, operator shall not be required to pay royalties on that portion of all liquid hydrocarbons which are separated from the first 318,519 MCF of gas withdrawn subsequent to the effective date of this amendment as payment for such liquid hydrocarbons has been included in the payment for the remaining primary gas underlying said Section 33 referred to in the preamble to this amendment. In addition, should the total cumulative British Thermal Units in the gas withdrawn exceed the total British Thermal Units in the gas injected, then operator shall pay royalties on said increase

in British Thermal Units at the prevailing market price in Lea County, New Mexico for gas of like quality. Payment for British Thermal Unit enrichment as set forth herein shall be made on an annual basis as determined by the cumulative chromatograph analyses.

B. Storage, Injection and Withdrawal Fees: In addition to the rental provided in the leases covering the respective tracts, for each year after the effective date of this amendment, unit operator shall pay an annual storage fee of \$1.00 per acre for the number of surface acres owned by the respective surface owners as shown on Exhibit "C" attached hereto. Said storage fee shall be paid in advance during the month of September of each year.

As to all gas injected or withdrawn subsequent to the effective date of this amendment, unit operator shall pay to the State of New Mexico an injection fee equal to 47/64 of \$.00625 per MCF and a withdrawal fee equal to 47/64 of \$.00625 per MCF on all gas injected or withdrawn from the reservoir through any wells located on the unit area or on Section 4, Township 22 South, Range 34 East during each calendar month; provided, however, no withdrawal fees shall be required on 6,727,987 MCF at 15.025 psia for gas injected prior to the effective date of this amendment if said gas is withdrawn prior to March 1, 1979. 1/64 of said injection and withdrawal fees on all of the gas shall be paid to Don E. Gridley and wife, Alice F. Gridley, John E. Bosserman and wife, Carol Jean Bosserman, and The Merchant Livestock Company in the proportions owned by said parties. All injection and withdrawal fees shall be paid during the month following the month in which injection or withdrawals are made.

5. Section 16 of the unit agreement is amended as follows:

16. EFFECTIVE DATE AND TERM: This amendment shall become effective as of September 1, 1976 upon approval by the Commissioner

and shall remain in effect so long as unitized substances are being produced from or stored within the unitized formation. The unit agreement may be terminated at any time by not less than seventy-five (75%) percent on an acreage basis of the owners of working interests signatory hereto with the approval of the Commissioner.

- 6. Section 22 of the unit agreement is amended as follows:
- 22. RE-NEGOTIATION OF INJECTION AND WITHDRAWAL FEES: The injection and withdrawal fees provided for in Section 11 hereof shall be effective for a period of 5 years from the effective date of this amendment; provided, however, that during the 4th year of the first 5 year period and during the 4th year of each successive 5 year period this agreement is in force and effect said fees shall be subject to re-negotiation between the parties hereto so that said fees will be commensurate with fees being paid on similar projects, such re-negotiated rate to be in effect for the succeeding 5 year period. If the parties hereto are unable to agree to re-negotate new fees 60 days prior to the expiration of the 4th year of any 5 year period, payment of the fees on the basis of prior rates shall continue and this agreement shall terminate upon expiration of not more than 3 years from the expiration of the preceding 5 year period. During said 3 year period the parties hereto may remove the metered and injected gas not previously withdrawn and equipment and facilities installed under this agreement, unless during such 3 year period the parties hereto agree upon a re-negotiated rate to be effective retroactively. Any gas or facilities not then removed by the termination date shall become the property of the State of New Mexico if it so elects.
- 7. COMMITMENT OF INTERESTS TO UNIT AND RATIFICATION OF

 OTHER UNIT PROVISIONS: By the execution of this amendment, the

 parties hereto committed the unit agreement their respective interests

 of whatsoever kind, nature or description in and to the unitized forma-

tion underlying the unit area. Except as amended herein, all of the other terms and conditions of the original Unit Agreement for the Operation of the Grama Ridge-Morrow Unit Area shall remain in full force and effect and are ratified and confirmed by the parties or by those consenting hereto by separate instrument.

8. COUNTERPARTS: This amendment may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument in writing specifically referring hereto, and shall be binding upon all those parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described unit area.

| ATTEST: | LLANG / INC. |
|----------------------------|-------------------------------------------------|
| soulant secretary Justines | By Jaral arly |
| Date: //2-/6-76 | Address: P. O. Box 1320 Hobbs, New Mexico 88240 |
| ATTEST: | GULF OIL CORPORATION |
| | Ву |
| Secretary Date: | President Address: |
| ATTEST: | TEXACO INC. |
| | Ву |
| Secretary Date: | President Address: |
| ATTEST: | WILSON OIL COMPANY |
| | Ву |
| Secretary Date: | President Address: |
| | |

tion underlying the unit area. Except as amended herein, all of the other terms and conditions of the original Unit Agreement for the Operation of the Grama Ridge-Morrow Unit Area shall remain in full force and effect and are ratified and confirmed by the parties or by those consenting hereto by separate instrument.

8. COUNTERPARTS: This amendment may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument in writing specifically referring hereto, and shall be binding upon all those parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described unit area.

| ATTEST: | LLANO, INC. |
|-----------------|--------------------------------------|
| | By President |
| Secretary | President |
| Date: | Address: |
| ATTEST: | GULF OIL CORPORATION |
| Casulas | By RE Galor |
| Asst. Secretary | Attorney-in-fact of Attorney-in-fact |
| Date: | Address: PO Box 1150 |
| • | Midland, Texas 79701 |
| ATTEST: | TEXACO INC. |
| | Ву |
| Secretary | President |
| Date: | Address: |
| ATTEST: | WILSON OIL COMPANY |
| | Ву |
| Secretary Date: | President Address: |
| | |

tion underlying the unit area. Except as amended herein, all of the other terms and conditions of the original Unit Agreement for the Operation of the Grama Ridge-Morrow Unit Area shall remain in full force and effect and are ratified and confirmed by the parties or by those consenting hereto by separate instrument.

8. COUNTERPARTS: This amendment may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument in writing specifically referring hereto, and shall be binding upon all those parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an incerest in the lands within the above described unit area.

| ATTEST: | LLANO, INC. |
|-----------------------------------------|------------------------------------------------|
| • • • • • • • • • • • • • • • • • • • • | Ву |
| Secretary | President |
| Date: | Address: _ · · · · · · · · · · · · · · · · · · |
| | |
| ATTEST: | GULF OIL CORPORATION |
| | Ву |
| Secretary | President |
| Date: | Address: |
| | |
| APPROVED: | TEXACO INC |
| Terms: | By At Clarke |
| Form: | Attorney-In-Fact |
| Date: NOVEMBER 5, 1976 | Address: Box 3109 |
| Date: WWW. MISEN STITE | Midland, Texas 79701 |
| ATTEST: | WILSON OIL COMPANY |
| | Ъу |
| Secretary | President |
| Date: | Address: |
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tion underlying the unit area. Except as amended herein, all of the other terms and conditions of the original Unit Agreement for the Operation of the Grama Ridge-Morrow, Unit Area shall remain in full force and effect and are ratified and confirmed by the parties or by those consenting hereto by separate instrument.

8. COUNTERPARTS: This amendment may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument in writing specifically referring hereto, and shall be binding upon all those parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described unit area.

| ATTEST: | LLANO, INC. |
|---------------------------|--------------------------------------------------------|
| | Ву |
| Secretary Date: | President Address: |
| ATTEST: | GULF OIL CORPORATION |
| | Ву |
| Secretary Date: | ByPresident Address: |
| ATTEST: | TEXACO INC. |
| · | Ву |
| Secretary Date: | President Address: |
| ATTEST: | WILSON OIL COMPANY |
| Tava Charant | By ander to il |
| Secretary Date: 29 Nov 76 | President Address: A. B.N. 1297 Hante R. New Mixee 81: |
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|-------------------------------------------------------------------------------------------|--------------------------------------------|
| Date: Recember 2 1976 | FRANCES P. BOLTON, dba WYOMING OIL COMPANY |
| | Address: Trances & Bollo |
| ATTEST: | NEW MEXICO ÉLECTRIC SERVICE COMPANY |
| | ву |
| Secretary | Presid ent |
| | Address: |
| ATTEST: | TUCO, INC. |
| <u> </u> | Ву |
| Secretary | President |
| | Address: |
| | |
| STATE OF NEW MEXICO) : SS | |
| -COUNTY OF LEA) | |
| The foregoing instrument was act day of 1976 by President of Llang, Inc., a New Mexico co | knowledged before me this |
| said corporation. | poracion, on behalf of |
| My Commission Expires: | |
| | Notary Public |
| STATE OF) | |
| : S\$ | |
| COUNTY OF) | |
| The foregoing instrument was act | knowledged before me this |
| day of 1976 by of Gulf Oil Corporation, on behalf of said corporation. | oration, a Pennsylvania corpora- |
| | • |
| My Commission Expires: | Notary Public |
| | • |
| STATE OF | |
| COUNTY OF | |
| | knowledged before me this |
| | a Delaware corporation, on behalf |
| of said corporation. | |
| My Commission Expires: | Notary Public |
| | HOLATY PUDITC |

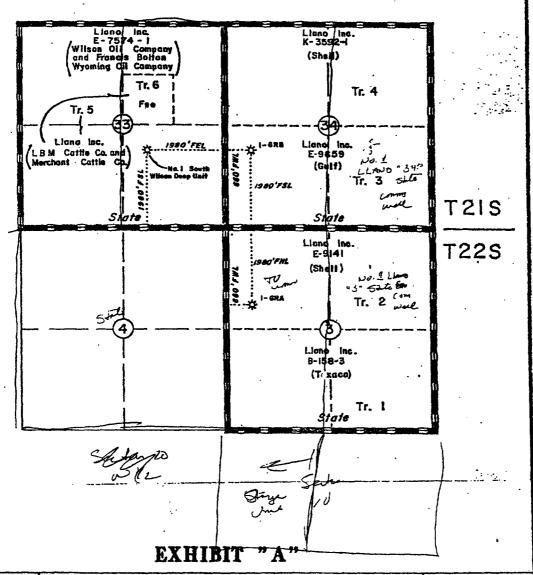
| | - |
|----------------------------------------------------------------|---------------------------------------------------|
| | |
| | |
| Date: | |
| Date: | FRANCES P. BOLTON, dba WYOMING OIL |
| | COMPANY |
| | Address: |
| | |
| ATTEST: | NEW MEXÍCO ELECTRIC SERVICE COMPANY |
| P. D. A. Jan. S. J. L. | 771100 |
| Secretary | President |
| 22020041 | Address: p O. Box 920 |
| | Hobbs, New Mexico 88240 |
| ATTEST: | TUCO, INC. |
| | · |
| | ВУ |
| Secretary | President Address: |
| • | |
| ` | |
| STATE OF NEW MEXICO) | |
| : SS | • |
| COUNTY OF LEA) | • |
| day of <u>December</u> 1976 by President of Llano, Inc., a New | Donald L. Garey Mexico corporation, on behalf of |
| said corporation. | Λ - |
| My Commission Expires: | Unna of Clark Notary Public |
| 3-20-80 | Notary Public |
| | • |
| STATE OF) | |
| ; 55 | • |
| COUNTY OF) | • |
| The foregoing instrumed day of 1976 by | ent was acknowledged before me this |
| of Gulf O | il Corporation, a Pennsylvania corpora- |
| tion, onbehalf of said corporat | tion. |
| My Commission Expires: | |
| | Notary Public |
| | |
| STATE OF) | |
| : SS | |
| COUNTY OF) | |
| The foregoing instrume | ent was acknowledged before me this |
| | |
| of Texas | co Inc. a Delaware corporation, on behalf |
| or said corporation. | |
| My Commission Expires: | |
| · Or San | Notary Public |
| | |

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| Date: | |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| · | FRANCES P. BOLTON, dba WYOMING OIL COMPANY Address: |
| ATTEST: | NEW MEXICO ELECTRIC SERVICE COMPANY |
| | Ву |
| Secretary | By President |
| | Address: |
| ATTEST: Court Webb | TUCO INC. By Augh Bean |
| · · | Address: P. 0. Box 1261 Amarillo, Texas /91/0 |
| STATE OF NEW MEXICO) : ss | |
| COUNTY OF LEA) | |
| day ofl976 by President of Llano, Inc., a New Mexico said corporation My Commission Expires: | corporation, on behalf of |
| Ty Commission Expires. | Notary Public |
| STATE OF) COUNTY OF) | |
| day of 1976 by | cknowledged before me this |
| of Gulf Oil Cor tion, on behalf of said corporation. | poration, a Pennsylvania corpora- |
| My Commission Expires: | |
| | Notary Public |
| STATE OF | |
| COUNTY OF | • |
| The foregoing instrument was a day of1976 by | |
| of said corporation. | . a Delaware corporation, on behalf |
| My Commission Expires: | |
| | Notary Public |



Orch No. 6496



LLANO, INC.

GRAMA "RIDGE MORROW UNIT

-UNIT OWNERSHIP MAP

SCALE W FEET
0 1000' 2000' 3000' 4000' 5000' 5000' 7000' 8000'

| Tr. | Tract No Description | NoSurface Agres | Lease No. | Basic Royalty | Lessee of Record | Overriding Royalty | Working Int. Owner and Percentage | Percenta ge . Tract Participation |
|-----|-----------------------------------|--------------------|--------------|------------------|---------------------|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------|
| ٦ | χς. κ | 320.00 | B-158-3 | 1248 | Texaco Inc. | None | *New Mexico Electric Ser- vice Co. 40% TUCO INC. 40% Llano, Inc. 20% | 16,60475 |
| α . | Ny Sec. 3, T. 22 S., R. 34 E. | 327.16 | E-9141 | 12% | Llano, Inc. | None | New Mexico Electric Ser- vice Co. 40% TUCO INC. 40% Llano, Inc. 20 | 16.97627 |
| m | Sy Sec. 34, T. 21 S., R. 34 E. | 320.00 | e - 96 5 9 | 1248 | Gulf Oil Corp. | None | **New Mexico Electric Ser- Vice Co. 408 TUCO INC. 408 Llano, Inc. 208 | 16.60475 |
| 4 | Ny Sec. 34, T. 21 S., R. 34 E. | 320.00 | K-3592-1 | 1248 - | Llano, Inc. | None | New Mexico Electric Ser- vice Co. 40% TUCO INC. 40% Llano, Inc. 20% | 16.60475 |

| | Percenta ge Tract Participation | 31.13389 | 2.07559 |
|-----------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Working Int. Owner and Percentage | ***New Mexico Electric Ser- vice Co. 40% TUCO INC. 40% Llano, Inc. 20% | New Mexico Electric Service Co. 40% TUCO INC. 40% Llano, Inc. 20% |
| AGREEMENT | Overriding Royalty | Amoco Production Co0102041 Myles A. Colligan .0005102 Estelle L. Lake .0004081 F. W. Lake .0002041 Mary E. Lake .0002041 M. A. Machris .0032653 G. L. Milburn .0005102 Wilson Oil Co0081314 Frances P. Bolton dba Wyoming Oil Co0081314 Llano, Inc0280611 | Amoco Production Co0102041. Myles A. Colligan .0005102 Estelle L. Lake .0004081 F. W. Lake .0002041 Mary E. Lake .0002041 M. A. Machris .0032653 C. L. Milburn |
| RXHIBIT "B" OW UNIT AGRE | Lessee of Record | Wilson Oil Co. and Frances P. Bolton, dba Wyoming Oil Co. | ilson Oil Co. nd Frances . Bolton, dba yoming Oil Co. |
| GRAMA RI' | Basic Royalty | 1 1248 | The Merchant a Livestock P Company 67.63% of 124% Don E. Gridley and wife and John E. Bosserman and wife - 32.37% of 124% |
| | Lease No. | B-7574-1 | ១ ម្ |
| | No. Surface Agres | 600.00 | 40.00 |
| | Description | Sk, NW4, NANEA, SEANEA Sec. 33, T. 21 S., R. 34 E. | SW4NE% Sec. 33, T. 21. S., R. 34 E. |
| | Tract Mo. | 5 S.Y. R. 8.6 C. 3.4 | S S S S S S S S S S S S S S S S S S S |

NEW MEXICO STATE LAND OFFICE



CERTIFICATE OF APPROVAL

COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO GRAMA RIDGE MORROW UNIT AGREEMENT

LEA COUNTY, NEW MEXICO

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, the attached Agreement for the development and operation of acreage which is described within the attached Agreement, dated__ April 25, 1973 ment, dated April 25, 1973 , which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- · (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
 - (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
 - (d) That such agreement is in other respects for the best interests of the state, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 7-11-39, 7-11-40, 7-11-41, 7-11-47, and 7-11-48, New Mexico Statutes Annotated, 1953 Compilation, I, the undersigned, Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this 27th. day of August

> COMMISSIONER OF PUBLIC LANDS

of the State of New Mexico

GRAMA RI

No. Surface Lease

Basic

No.

Acres

Description

Tract

Rovalty

. Lessee of Record

Overriding Royalty

Owner and

Working Int.

Tract . . Percenta ge

Percentage

Participation

Llano, Inc. .0280611 Frances P. Bolton dba Wyoming Oil Co. .0081314 Wilson Oil Co. .0081314

Total

1,927.16

Rights within yertical limits of the Morrow Sand formation between 12,720 and 13,257 feet. ** From the surface to the top of the Silurian. ***From 5,200 to 13,503 feet.

100.000

| Description | Surface Ownership | Acreage | Rental |
|----------------------------------------------------------------------------------|--------------------------------|---------|-----------|
| WkEk Section 33, SkSk Section 34, Township 21 South, Range 34 East | the Merchant Livestock Company | 320.00 | \$ 320.00 |
| Wk, Eksk Section 33, Nk, NkSk Section 34, Township 21 South, Range 34 East | State of New Mexico | 00.096 | 00.096 |
| All Section 3, Township 22 South, Range 34 East | State of New Mexico | 647.16 | 647.16 |
| | | | \$1927.16 |

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION COMMISSION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 8088 Order No. R-7582

APPLICATION OF LLANO, INC. FOR SPECIAL WELL TESTING REQUIREMENTS OR EXPANSION OF ITS GAS STORAGE PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on May 15, 1984, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 29th day of June, 1984, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Llano, Inc., is the operator of the Grama Ridge Morrow Unit which was approved by the Commission on January 29, 1973, by Order No. R-4473 and has been subsequently expanded to include the following described state lands:

LEA COUNTY, NEW MEXICO, NMPM

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM Sections 33 and 34: All

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM Section 3: All

(3) That the applicant operates an underground gas storage project in the Morrow Formation, Grama Ridge Morrow Gas Pool, under the Grama Ridge Morrow Unit Area descibed in Paragraph (2) and under Sections 4 and 10, Township 22 South,

Range 34 East, NMPM, under which gas storage rights have been acquired by applicant through agreement with the United States, acting by and through the Secretary of the Interior (Agreement for Subsurface Storage of Gas, Morrow Formation, Grama Ridge Area, Lea County, New Mexico, Agreement No. 14-08-0001-14277, as amended).

- (4) That Llano injects gas into the Morrow formation in its GRM Unit Well No. 1 (formerly State GRA Well No. 1) located in Unit E, Section 3, Township 22 South, Range 34 East, NMPM, and in the GRM Unit Well No. 2 (formerly State GRB Well No. 1) located in Unit L of Section 34, Township 21 South, Range 34 East, NMPM, Grama Ridge-Morrow Gas Pool, Lea County, New Mexico, pursuant to Commission Order R-4491 entered on March 16, 1973.
- (5) That L & B Oil Company proposes to drill its Federal Well No. 1 at a location 660 feet from the South line and 1980 feet from the East line of Section 5, Township 22 South, Range 34 East, NMPM, which directly offsets the Llano Storage Project.
- (6) That the boundaries of the Grama Ridge Storage Reservoir cannot be precisely determined.
- (7) That L & B Oil Company proposes to test and possibly complete its Federal Well No. 1 in the same Morrow interval into which Llano injects natural gas for storage and in so doing could damage Llano's storage project and produce gas which is the property of Llano, Inc.
- (8) That applicant seeks an order requiring L & B Oil Company to test the Morrow sands encountered below the top of the Morrow Clastics in its Federal Well No. 1 by using a Repeat Formation Tester (RFT) to establish the pressure in each Morrow stringer and thereby determine if the well is in communication with Llano's storage project.
- (9) That Llano should be required to bear the cost of conducting this test and should further be required to indemnify L & B Oil Company for any damage to their well which results from the tests.
- (10) That testing at the L & B Oil Company Federal Well No. 1 will not cause waste nor violate correlative rights and should be approved.
- (11) That there was insufficient evidence presented to warrant the expansion of the gas storage project to include the E/2 of Section 5, Township 22 South, Range 34 East.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Llano, Inc., shall be permitted, at its option, to run an RFT log on the L & B Oil Company Federal Well No. 1 to be drilled at a location 660 feet from the South line and 1980 feet from the East line of Section 5, Township 22 South, Range 34 East, NMPM, Lea County, New Mexico.
- (2) That L & B Oil Company shall provide Llano, Inc. with the following information on the said Federal Well No. 1 from the top of the Morrow Clastics to total depth:
 - (a) Drilling data, including time, weight, bit changes, etc.
 - (b) Copies of drill stem tests.
 - (c) Mud log information.
 - (d) Samples or drilling cuttings.
 - (e) Copy of the CNL-FDC porosity log or equivalent porosity log.
- (3) Within twenty-four hours after receipt of the data required in Paragraph (2) of this Order, Llano at its sole discretion, shall determine if the Morrow formation in the L & B Oil Company well is structurally equivalent to Llano's storage system and shall notify L & B Oil Company and the District Office of the Oil Conservation Division in Hobbs, New Mexico, whether or not it will run an RFT log on the well.
 - (4) If Llano, Inc. decides to run an RFT log on the well:
 - (a) L & B Oil Company will temporarily turn over control of the well to Llano, Inc. for the sole purpose of running an RFT log from the top of the Morrow Clastics to the well's total depth;
 - (b) Llano will make all arrangements with the service company to run the RFT log;
 - (c) Llane will be liable for any damage to the well during the time Llano has control of the well and will reimburse L & B Oil Company for rig time costs for the period while Llano is determining whether or not to run the RFT log, rig time costs involved in running the RFT log, and any other costs incurred by L & B Oil Company as a result of running the RFT log.

- (d) Llano will promptly relinquish control of the well to L & B Oil Company upon completion of running the RFT log; and
- (e) Llano will furnish a copy of the RFT log on the well to L & B Oil Company.

PROVIDED FURTHER, that L & B Oil Company will not run casing in the well until Llano has run the RFT log on the well or failed to notify L & B Oil Company and the Oil Conservation Division's District Office of its intention to run the RFT log in accordance with the provisions of Paragraph (3) of this Order.

- (5) That if it is established by the data obtained from the RFT log that the Morrow stringers in the said L & B well have pressures similar to those of Llano's gas storage project, L & B Oil Company shall not produce gas from those stringers and shall demonstrate this fact to the satisfaction of Llano, Inc. and the District Office of the Oil Conservation Division located in Hobbs, New Mexico.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JIM BACA, Member

D KELLEY, Member

JOE D. RAMEY, Chairman and Secretary

SEAL

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6557 Order No. R-6050

APPLICATION OF GETTY OIL COMPANY FOR POOL CREATION AND SPECIAL POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 29, 1979, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 17th day of July, 1979, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the Division, by its Order No. R-5995 entered May 2, 1979, rescinded the Special Rules and Regulations for the Grama Ridge-Morrow Gas Pool, as promulgated by Division Order No. R-3006, and provided that said pool should henceforth be spaced, drilled, operated, and produced in accordance with Rule 104 of the Division Rules and Regulations and with such other Division rules and orders as may be applicable.
- (3) That said Order No. R-5995 redefined the horizontal limits of the Grama Ridge-Morrow Gas Pool to include only the E/2 of Section 33 and the W/2 of Section 34, Township 21 South, Range 34 East, NMPM, and the W/2 of Section 3, all of Section 4, and the W/2 of Section 10, Township 22 South, Range 34 East, NMPM.
- (4) That said Order No. R-5995 further defined a particular area, described as all of Section 26, the E/2 of Section 34, and all of Sections 35 and 36, Township 21 South,

-2-Case No. 6557 Order No. R-6050

Range 34 East, NMPM, and all of Sections 1 and 2, the E/2 of Section 3, the E/2 of Section 10, and all of Sections 11 and 12, Township 22 South, Range 34 East, NMPM, and prescribed that the Morrow formation underlying said area would be placed on temporary 640-acre well spacing and location requirements for a period of 30 days after the date of entry of said Order No. R-5995, or, provided that if Getty Oil Company had filed an application for creation of a new gas pool within the hereinabove-described lands and the promulgation of special rules for such new pool, including a provision for other than 320-acre spacing, then such temporary rules should remain in effect for so long thereafter as a hearing, or an order following a hearing, is pending.

- (5) That Getty Oil Company did file an application with the Division on May 3, 1979, requesting such pool creation and special rules, and said application was docketed for hearing as the instant case.
- (6) That as the applicant herein, Getty Oil Company seeks the creation of a new Morrow Gas Pool comprising all of Section 35, Township 21 South, Range 34 East, NMPM, and all of Section 2, Township 22 South, Range 34 East, NMPM, and the promulgation of special rules therefor, including a provision for 640-acre spacing and proration units, and well locations no closer than 1650 feet to the outer boundary of the unit and no closer than 330 feet to any quarter-quarter section line.
- (7) That the applicant is the operator of its Getty "35" State Well No. 1 located in Unit K of the aforesaid Section 35, and its Getty "2" State Well No. 1 located in Unit F of the aforesaid Section 2.
- (8) That said wells are located approximately 4290 feet apart, or less than one mile, but the main producing zone in each of the two wells does not appear to be of major significance in the other well.
- (9) That Getty presented evidence attempting to establish that the Morrow producing interval in both the Grama Ridge-Morrow Gas Pool and in the lands immediately East thereof, i.e., the lands under consideration in this case, is of deltaic marine nature, and therefore should extend laterally for considerable distance and exhibit good continuity of permeability throughout the reservoir, thus being conducive to 640-acre spacing; however, the preponderance of the evidence presented at the hearing establishes that said Morrow producing interval does not constitute a broad continuous producing body but instead is composed of numerous separate and isolated sand bodies.

-3-Case No. 6557 Order No. R-6050

- (10) That from the evidence submitted at the hearing, there is no reason to believe that the drainage characteristics in the Morrow formation in the area under consideration (Section 35, Township 21 South, Range 34 East, NMPM, and Section 2, Township 22 South, Range 34 East, NMPM) are any different than the drainage characteristics of the Morrow formation in the Grama Ridge-Morrow Gas Pool immediately to the West.
- (11) That the Division found, in Case No. 6496, from which Order No. R-5995 issued, that the drainage characteristics of the Morrow formation in the Grama Ridge-Morrow Gas Pool are not such as to support 640-acre spacing, and that 320-acre spacing was more appropriate for said pool.
- (12) That the applicant has failed to establish that one well will effectively and efficiently drain 640 acres in the Morrow formation underlying Section 35, Township 21 South, Range 34 East, NMPM, and Section 2, Township 22 South, Range 34 East, NMPM.
- (13) That after considering the evidence presented in this case and the economic loss caused by the drilling of unnecessary wells, the protection of correlative rights, including those of royalty owners, the prevention of waste, the avoidance of the augmentation of risks arising from the drilling of an excessive number of wells, and the prevention of reduced recovery which might result from the drilling of too few wells, the Commission can only conclude that the application for 640-acre spacing in the subject area should be denied, and that said lands should be developed on 320-acre spacing and proration units.
- (14) That a new pool should be created and defined for applicant's wells in the subject area, and that said pool should be designated the East Grama Ridge-Morrow Gas Pool with vertical limits comprising the Morrow formation and horizontal limits comprising the S/2 of Section 35, Township 21 South, Range 34 East, NMPM, and the N/2 of Section 2, Township 22 South, Range 34 East, NMPM, Lea County, New Mexico.
- (15) That said East Grama Ridge-Morrow Gas Pool should be spaced, drilled, operated and produced in accordance with Rule 104 of the Division Rules and Regulations and with such other Division rules and orders as may be applicable, including 320-acre spacing and proration units and well location requirements.
- (16) That the provisions of Order No. (3) on Pages 4 and 5 of Division Order No. R-5995 should be rescinded.

IT IS THEREFORE ORDERED:

(1) That the application of Getty Oil Company for the creation of a new gas pool in Lea County, New Mexico, for the production of gas from the Morrow formation is approved, and there is hereby created the East Grama Ridge-Morrow Gas Pool, with vertical limits comprising the Morrow formation and horizontal limits comprising the following described area:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM Section 35: S/2

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM Section 2: N/2

- (2) That said East Grama Ridge-Morrow Gas Pool shall be spaced, drilled, operated, and produced in accordance with Rule 104 of the Division Rules and Regulations and with such other Division rules and orders as may be applicable to 320-acre spacing and proration units and well location requirements.
- (3) That the application of Getty Oil Company for 640-acre spacing and well location requirements is hereby denied.
- (4) That the provisions of Order No. (3) on Pages 4 and 5 of Division Order No. R-5995 are hereby rescinded.

IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in, or for which drilling permits have been approved for, the East Grama Ridge-Morrow Gas Pool or the Morrow formation within one mile thereof, are hereby approved.
- (2) That existing wells in the East Grama Ridge-Morrow Gas Pool shall have dedicated thereto 320 acres in accordance with the foregoing, and the operator thereof shall file Forms C-102 dedicating 320 acres to such wells within 60 days after entry of this order.

Failure to file new Forms C-102 with the Division dedicating 320 acres to a well within 60 days from the date of this order shall subject the well to cancellation of allowable.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-5-Case No. 6557 Order No. R-6050

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

ALEX J. ARMIJO, Member

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

SEAL