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HUMBLE CITY-ATOKA POOL Lea County, New Mexico

Order No. R-4436, Creating and Adopting Temporary Operating Rules for the Humble City-Atoka Pool, Lea County, New Mexico, November 13, 1972.

Order No. R-4436-A, November 30, 1973, makes permanent the rules adopted in Order No. R-4436.

Application of Harding Oil Company for Pool Creation, Special Rules Therefor, and Discovery Allowable, Lea County, New Mexico.

CASE NO. 4849.1 Order No. R-4436

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on November 1, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 13th day of November, 1972, 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,

- (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, Harding Oil Company, seeks the creation of a new oil pool for Atoka production in Lea County, New Mexico, and the assignment of an oil discovery allowable in the amount of approximately 58,310 barrels to the discovery well.
- That the applicant also seeks the promulgation of special rules for said pool, including a provision for 80-acre proration units.
- (4) That the evidence presently available indicates that the Shipp Well No. 4, located in Unit I of Section 11, Township 17 South, Range 37 East, NMPM, Lea County, New Mexico, has discovered a separate common source of supply which should be designated the Humble City-Atoka Pool; that the vertical limits of said pool should be the Atoka formation as found on the log of said Shipp Well No. 4 from 11,661 feet to 11,676 feet, and that the horizontal limits of said pool should be the Fe of said Section 11 be the E/2 of said Section 11.
- (5) That the discovery well for the aforesaid pool, Shipp Well No. 4, located in Unit I of Section 11, Township 17 South, Range 37 East, NMPM, Lea County, New Mexico, is entitled to and should receive a bonus discovery oil allowable in the amount of 58,310 barrels, based upon the top perforations in said well at 11,662 feet, to be assigned over a two-year period.
- That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the Humble City-Atoka Pool.
- (7) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (8) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically desired and developed by the search. drained and developed by one well.

(9) That this case should be reopened at an examiner hearing in November, 1973, at which time the operators in the subject pool should be prepared to appear and show cause why the Humble City-Atoka Pool should not be developed on 40-acre spacing units.

IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as an oil pool for Atoka production, is hereby created and designated the Humble City-Atoka Pool, with vertical limits comprising the Atoka formation as found on the log of the Harding Oil Company Shipp Well No. 4, located in Unit I of Section 11, Township 17 South, Range 37 East, from 11,660 feet to 11,676 feet, and horizontal limits comprising the following-described area:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM Section 11: E/2 of SE/4

- That the aforesaid discovery well is hereby authorized an oil discovery allowable of 58,310 barrels to be assigned to said well at the rate of 80 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.
- (3) That temporary Special Rules and Regulations for the Humble City-Atoka Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE HUMBLE CITY-ATOKA POOL

- RULE 1. Each well completed or recompleted in the Humble City-Atoka Pool or in the Atoka formation within one mile thereof, and not nearer to or within the limits of another designated Atoka oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section; provided however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operaformation of the non-standard unit within 30 days after the Secretary-Director has received the application.
- RULE 4. Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.
- RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers

(HUMBLE CITY-ATOKA POOL - Cont'd.)

from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

RULE 6. Top unit allowable for a standard proration unit (79 through 81 acres) shall be based on a depth bracket allowable of 445 barrels per day, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the Humble City-Atoka Pool or in the Atoka formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before November 25, 1972.
- (2) That each well presently drilling to or completed in the Humble City-Atoka Pool or in the Atoka formation within one mile thereof shall receive a 40-acre allowable until a Form C-102 dedicating 80 acres to the well has been filed with the Commission.
- (3) That this case shall be reopened at an examiner hearing in November, 1973, at which time the operators in the subject pool should be prepared to appear and show cause why the Humble City-Atoka Pool should not be developed on 40-acre spacing units.
- (4) 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. $% \label{eq:continuous} % \begin{subarray}{ll} \end{subarray} % \begin$

EK-BONE SPRINGS POOL Lea County, New Mexico

Order No. R-4981, Adopting Temporary Operating Rules for the EK-Bone Springs Pool, Lea County, New Mexico, March 11, 1975.

Order No. R-4981-A, March 17, 1976, makes permanent the rules adopted in Order No. R-4981.

Application of Hilliard Oil & Gas Inc., for Special Pool Rules, Lea County, New Mexico.

CASE NO. 5422 Order No. R-4981

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on February 19, 1975, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 11th day of March, 1975, 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, Hilliard Oil & Gas Inc., seeks the promulgation of special rules and regulations for the EK-Bone Springs Pool, Lea County, New Mexico, including a provision for 80-acre proration units, and wells to be located in the approximate center of either quarter-quarter section.
- (3) That in order to prevent the economic loss caused by the drilling of too many wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, itemporary special rules and regulations should be promulgated for the EK-Bone Springs Pool.
- (4) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained by one well.
- (5) That this case should be reopened at an examiner hearing in March, 1976, at which time the operators in the subject pool should be prepared to appear and show cause why the EK-Bone Springs Pool should not be developed on 40-acre proration units.

IT IS THEREFORE ORDERED:

(1) That temporary Special Rules and Regulations for the EK-Bone Springs Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE EK-BONE SPRINGS POOL

- RULE 1. Each well completed or recompleted in the EK-Bone Springs Pool or in the Bone Springs formation within one mile thereof, and not nearer to or within the limits of another designated Bone Springs Oil Pool, shall be spaced, drilled, operated, and produced in accordance with the special rules and regulations bereinafter set forth
- RULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

HUMBLE CITY-STRAWN POOL Lea County, New Mexico

Order No. R-4338, Adopting Temporary Operating Rules for the Humble City-Strawn Field, Lea County, New Mexico, July 17, 1972.

Order No. R-4438-A, July 23, 1973, extends to July, 1974, the temporary rules adopted in Order No. R-4338.

Order No. R-4338-B, October 22, 1974, makes permanent the rules adopted in Order No. R-4338.

Application of Harding Oil Company for a Discovery Allowable and Special Pool Rules, Lea County, New Mexico.

CASE NO. 4749 Order No. R-4338

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on June 28, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 17th day of July, 1972, 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, Harding Oil Company, seeks the promulgation of special rules and regulations for the Humble City-Strawn Pool, Lea County, New Mexico, including a provision for 80-acre proration units.
- (3) That the applicant also seeks the assignment of an oil discovery allowable in the amount of approximately 57,100 barrels to the discovery well for said pool.
- (4) That the evidence presently available indicates that the Harding Oil Company E. D. Shipp Well No. 1, located in Unit K of Section 11, Township 17 South, Range 37 East, NMPM, Lea County, New Mexico, discovered a separate common source of supply which has been designated the Humble City-Strawn Pool; that the vertical limits of said pool have been defined as the Strawn formation, and that the horizontal limits of said pool have previously been defined as the SW/4 of said Section 11.
- (5) That the discovery well for the aforesaid pool, E. D. Shipp Well No. 1, located in Unit K of Section 11, Township 17 South, Range 37 East, NMPM, Lea County, New Mexico, is entitled to and should receive a bonus discovery oil allowable in the amount of 57,100 barrels, based upon the top of the perforations in said well at 11,420 feet, to be assigned over a two-year period.
- (6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the Humble City-Strawn Pool.

- (7) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (8) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.
- (9) That this case should be reopened at an examiner hearing in June, 1973, at which time the operators in the subject pool should be prepared to appear and show cause why the Humble City-Strawn Pool should not be developed on other than 40-acre spacing units.
- (10) That the horizontal limits of the Humble City-Strawn Pool should be extended to include the SE/4 of the above-described Section 11.

IT IS THEREFORE ORDERED:

(1) That the Humble City-Strawn Pool in Lea County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM Section 11: SE/4

- (2) That the Harding Oil Company E. D. Shipp Well No. 1 located in Unit K of Section 11, Township 17 South, Range 37 East, Humble City-Strawn Pool, Lea County, New Mexico, is hereby authorized an oil discovery allowable of 57,100 barrels to be assigned to said well at the rate of 79 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations
- (3) That temporary Special Rules and Regulations for the Humble City-Strawn Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE HUMBLE CITY-STRAWN POOL

- RULE 1. Each well completed or recompleted in the Humble City-Strawn Pool or in the Strawn formation within one mile thereof, and not nearer to or within the limits of another designated Strawn oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section; provided however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the

(HUMBLE CITY-STRAWN POOL - Cont'd.)

application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

RULE 6. A standard proration unit (79 through 81 acres) shall be assigned an 80-acre proportional factor of 6.67 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the Humble City-Strawn Pool or in the Strawn formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before August 1, 1972.
- (2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the Humble City-Strawn Pool shall have dedicated thereto 80 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 80 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the Humble City-Strawn Pool or in the Strawn formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

- (3) That this case shall be reopened at an examiner hearing in June, 1973, at which time the operators in the subject pool may appear and show cause why the Humble City-Strawn Pool should not be developed on other than 40-acre spacing units.
- (4) 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.

BLACK RIVER-PENNSYLVANIAN GAS POOL Eddy County, New Mexico

Order No. R-4698, Adopting Operating Rules for the Black River-Pennsylvanian Gas Pool, Eddy County, New Mexico, February 1, 1974.

Application of Amoco Production Company for the Adoption of Pool Rules, Eddy County, New Mexico.

> CASE NO. 5142 Order No. R-4698

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on January 3, 1974, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 15th day of January, 1974, 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, Amoco Production Company, is drilling a gas well in the Black River-Pennsylvanian Gas Pool, Eddy County, New Mexico.
- (3) That said Black River-Pennsylvanian Gas Pool was created and designated by the Commission by Order No. R-1824 effective December 1, 1960.
- (4) That by Commission Order No. R-2707, dated May 25, 1964, Rule 104 of the Commission Rules and Regulations was amended to provide that all gas pools of Pennsylvanian age or older in Southeast New Mexico which were created and defined June 1, 1964, or later shall have 320-acre spacing and proration units, inasmuch as it was found that in Southeast New Mexico, ... 'a gas well completed in the Pennsylvanian formation or a deeper formation will efficiently and economically drain and develop a 320-acre tract.'
- (5) That the applicant in the instant case seeks the promulgation of rules including a provision for 320-acre spacing for the Black, River-Pennsylvanian Gas Pool in Eddy County, New Mexico, inasmuch as that pool was excluded from the provisions of Order No. R-2707, because it was created and defined prior to the cut-off date of June 1, 1964.
- (6) That no appearances were made at the hearing of the instant case and no objection was received to the inclusion of the Black River-Pennsylvanian Gas Pool under the provisions of Rule 104 of the Commission Rules and Regulations for gas pools of Pennsylvanian age or older.
- (7) That one well in the Black River-Pennsylvanian Gas Pool in Eddy County, New Mexico, will efficiently and economically drain and develop 320 acres, and the inclusion of said pool under the 320-acre provisions of Rule 104 for pools of Pennsylvanian age or older will not cause waste nor violate correlative rights, and should be approved.

(SAN LUIS-MESAVERDE POOL - Cont'd.)

(2) That for allowable purposes, the 40-acre proportional factor for pools in the 0-5000 foot depth range shall apply to the said San Luis-Messayerde Oil Pool

the said San Luis-Mesaverde Oil Pool.

(3) That special rules and regulations for the said San Luis-Mesaverde Oil Pool be and the same are hereby promulgated as hereinafter set forth.

SPECIAL RULES AND REGULATIONS FOR THE SAN LUIS-MESAVERDE OIL POOL

RULE 1. Each well drilled in the San Luis-Mesaverde Oil Pool shall be located no nearer than 150 feet to the outer boundary of the quarter-quarter section on which it is located and shall be located no nearer than 300 feet to the nearest well producing from the same common source of supply; provided, however, that offset wells to the discovery well which are drilled in the NW/4 SE/4 of Section 21 may be located nearer than 300 feet to the discovery well.

RULE 2. No 40-acre proration unit in said San Luis-Mesaverde Oil Pool shall produce in excess of the 40-acre top unit allowable for wells in the 0-5000 foot depth in Northwest New Mexico, regardless of the number of wells drilled on such 40-

acre proration unit.

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

SHIPP-STRAWN POOL Lea County, New Mexico

Order No. R-8062-A, Creating and Adopting Temporary Operating Rules for the Shipp-Strawn Pool, Lea County, New Mexico, January 21, 1986.

Application of the Oil Conservation Division on its Own Motion to Amend Division Order No. R-8062 and to Contract the Horizontal Limits of the East Lovington-Pennsylvanian Pool, Lea County, New Mexico.

CASE NO. 8790 Order No. R-8062-A

ORDER OF THE DIVISION

BY THE DIVISION: This cause came on for hearing at 8 a.m. on December 18, 1985, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 21st day of January, 1986, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) Division Order No. R-8062 issued on October 31, 1985, in Case No. 8696 classified, created and designated the Shipp-Strawn Pool, promulgated temporary special rules and regulations therefor, and assigned an oil discovery allowable to the Pennzoil Company Viersen Well No. 1, located 2130 feet from the South line and 660 feet from the East line (Unit I) of Section 4, Township 17 South, Range 37 East, NMPM, all in Lea County, New Mexico.

- (3) In the present case, the New Mexico Oil Conservation Division (Division) on its own motion seeks the following amendments to Division Order No. R-8062:
- (a) correction of the oil discovery allowable assigned to Pennzoil Company Viersen Well No. 1;
 - (b) amendment of the horizontal limits of the pool;
- (c) revision of the well location provisions of the Special Pool Rules to require well locations to be no further than 150 feet from the center of a governmental quarter-quarter section or lot; and
- (d) deletion of the limitation imposed on the pool restricting the applicability of the Special Pool Rules to the area within the pool boundaries.
- (4) The Division further seeks to contract the horizontal limits of the East Lovington-Pennsylvanian Pool by the deletion therefrom of the NW/4 NW/4 of Section 4, Township 17 South, Range 37 East, NMPM, Lea County, New Mexico.
- (5) The evidence presented in this case indicated that:
- (a) The NW/4 NW/4 of said Section 4 is more properly classified as being in the Shipp-Strawn Pool that the East Lovington-Pennsylvanian Pool;
- (b) there is insufficient evidence at this time to include more than the N/2 and SE/4 of said Section 4 within the boundaries of said Shipp-Strawn Pool;
- (c) the special rules for the Shipp-Strawn Pool should not be limited to that area only within the boundaries of said pool but should apply also within one mile thereof; and,
- (d) rules requiring well locations within 150 feet of the center of the quarter-quarter section would better serve to protect the correlative rights of the owners within said pool.
- (6) The evidence presented at this hearing also demonstrated that the discovery allowable assigned to the Pennzoil Company Viersen Well No. 1, located 2130 feet from the South line and 660 feet from the East line of said Section 4, was improperly calculated and should be reduced to 55,595 barrels of oil total.
- (7) An order entered amending said discovery allowable, revising said pool boundaries as described above, and incorporating the above described changes in special pool rules will better protect correlative rights and will not result in waste.
- (8) The effective date of this order should be January 21, 1986.

IT IS THEREFORE ORDERED THAT:

- (1) The East Lovington-Pennsylvanian Pool as heretofore defined and described is hereby contracted by the deletion therefrom of the NW/4 NW/4 of Section 4, Township 17 South, Range 37 East, NMPM, Lea County, New Mexico.
- (2) The horizontal limits of the Shipp-Strawn Pool, as heretofore defined and described in Lea County, New Mexico, are hereby amended to include therein the following described area only:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM Section 4: N/2 and SE/4

(SHIPP-STRAWN POOL - Cont'd.)

(3) The temporary Special Rules and Regulations for the Shipp-Strawn Pool are hereby amended to read in their entirety as follows:

SPECIAL RULES AND REGULATIONS FOR THE SHIPP-STRAWN POOL

- RULE 1. Each well completed or recompleted in the Shipp-Strawn Pool or in the Strawn formation within one mile of the Shipp-Strawn Pool, and not nearer to or within the limits of another designated Strawn pool shall be spaced, drilled, operated, and prorated in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well completed or recompleted in the Shipp-Strawn Pool shall be located on a unit containing 80 acres, more or less, which consists of the N/2, S/2, E/2, or W/2 of a single governmental quarter section; provided, however, nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.
- RULE 3. For good cause shown, the Director may grant an exception to the requirements of Rule 2 without notice and hearing when the application is for a non-standard unit comprising a single quarter-quarter section or lot. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application if, after a period of 30 days, no offset operator has entered an objection to the formation of such non-standard unit non-standard unit.

The allowable assigned to any such non-standard unit shall bear the same ratio to a standard allowable in the Shipp-Strawn Pool as the acreage in such non-standard unit bears to 80 acres.

- RULE 4. Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.
- RULE 5. The Division Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proration unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all operators offsetting the proration unit or if no objection to the unorthodox location has been entered within 20 days after the Director has received the application.
- RULE 6. Top unit allowable for a standard proration unit (79 through 81 acres) shall be based on a depth bracket allowable of 445 barrels per day, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres."

- IT IS FURTHER ORDERED THAT:

 (4) The location of any well permitted, in drilling to, or completed in the Strawn formation within the boundaries of the Shipp-Strawn Pool prior to January 21, 1986, which location was orthodox under pool rules existing prior to that time and which location is now unorthodox, is hereby approved.
- (5) The locations of any other wells presently permitted in, drilling to, or completed in the currently defined Shipp-Strawn Pool or in the Strawn formation within one mile thereof are hereby approved; the operator of any well having an unorthodox location shall notify the Hobbs District office of the Division in writing of the name and location of the well on or before April 1, 1982
- (6) The amount of the discovery allowable assigned to the Pennzoil Company Viersen Well No. 1 located 2130 feet from the South line and 660 feet from the East line of Section 4, Township 17 South Range 37 East, NMPM, Lea County, New Mexico, as set out in Division Order No. R-8062 is hereby amended to a total of 55,595 barrels of oil to be produced at a rate not to exceed 76 barrels per day in accordance with Division General Rule 509.
- (7) The effective date of this order and of the pool and pool rule changes included herein shall be January 21, 1986.
- (8) Pursuant to Paragraph A. of Section 70-2-18, NMSA (1978), existing wells in the Shipp-Strawn Pool shall have dedicated thereto 80 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.

Failure to file new Forms C-102 with the division dedicating 80 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said 60-day limitation, each well presently drilling to or completed in the Shipp-Strawn Pool or in the Strawn formation within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

- (9) This case shall be reopened at an examiner hearing in November, 1986, at which time the operators in the subject pool may appear and show cause why the Shipp-Strawn Pool should not be developed on 40-acre proration units.
- (10) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.
- DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

GRAYBURG-SAN ANDRES: 4800 TD, PB 4748 COMP 12/4/87, IPP 58 BO, 72 MCFG, 15 BWPD, GOR 1241, GTY 37.9 PROD ZONE - GRAYBURG-SAN ANDRES: 4800 TD, PB 4748 COMP 12/4/87, IPP 58 BO, 72 MCFG, 15 BWPD, GOR 1241, GTY 37.9 PROD ZONE - GRAYBURG-SAN ANDRES 4214-4580 SIX CORES, NO DSTS RPTD

0IL 00): 3, BW 5, 4707,
MALJAMAR; 4805 GRAYBURG-SAN ANDRES, (FR 01/20/88MD) OPER ADD: BOX 1919, MIDLAND, TX, 79702 PHONE (915) 685-5600. EL: 4131 GR; LOCATION DATA: 8 MI W BUCKEYE, NM; OWWO: OLD INFO: FORMERLY CARPER DRLG CO # 9 WYATT FEDERAL. ELEV 4130 DF. SPUD 10/24/62. 11 3/4 @ 299 W/375 SX, 8 5/8 @ 3149 W/775 SX, 5 1/2 @ 8925 W/450 SX. LOG TOPS: GLORIETA 6254, ABO 8619 ABO REEF 8694 OTD 8925. COMP 12/11/62. PP 240 BOPD. PROD ZONE: ABO	B824-8838, CONTR: NOT RPTD; SPUD: 08/24/87, CSG: CSG SQZD (5283-5862) @ 70 SX, TBG: 2 3/8 @ 4633, 8925 TD. (ABO) 4805 PBTD; PROD TEST(S): PERF (ABO), 8824-8838, BRPG 4805 PERF (GRAYBURG L) 4845, 4846, 4850, 4852, 4856, 4856, 4861, 4865, 4907, 4908, 4909, 4912, 4913, 4959, 4960, 4961, 4964, 4965, 4965, 4965, AGID (4845-4969) W/2500 GALS, SWFR (4845-4969) W/12000 GALS, 18000 LBS SAND, SWBD 250 BW W/TR OIL IN 12 HRS BRPG 4805 PRODUCING INTERVAL(S) DATA: PERF (GRAYBURG U) 4652, 4653, 4654, 4656, 4657, 4659, 4659, 4659, 4706, 4707, 4708, 4709, 4710, 4711, 4712, W/30 SHOTS, ACID (4852,4712) W/2000 GALS, ARCHA (4852,4713) W/2000 GALS, AGS, 4654, 4656, 4657, 4659, 4659, 4706, 4707, 4708, 4709, 4711, 4712, W/30 SHOTS, ACID (4852,4712) W/2000 GALS, AGS, 4653, 4654, 4655, 4656, 4657, 4659, 4659, 4706, 4707, 4708, 4709, 4711, 4712, W/30 SHOTS, ACID (4852,4712) W/2000 GALS, AGS, 4659, 4656, 4657, 4659, 465
34-17S-33E SE SE 500 FSL 330 FEL SEC IC 300257002288	08/24/87, CSG: CSG SQZD (5: PG 4805 PERF (GRAYBURG L) 4969, W/42 SHOTS, ACID (48: B05 PRODUCING INTERVAL) W/30 SHOTS ACID (46: PACID (46: PACID (46: PACID)
CITIES SERVICE O&G 9 WYATT "A" FEDERAL API 30-025-01402-0001	CONTR: NOT RPTD; SPUD; PERF (ABO), 8824-8838, BRI 4959, 4960, 4961, 4965 W/TR OIL IN 12 HRS BRPG 41 4708, 4709, 4710, 4711, 4712

VAL(S) DATA: PERF (GRAYBURG U) 4712) W/2000 GALS. SWFR (4652-4712) ACFG, 287 BWPD GOR 696, GTY 34 SHOE BAR SOUTH; 11100 PEI 09/10/87) OPER ADD: BOX 677, CHGD FROM LEA CO UNDESIGN.	W/TR OIL IN 12 HRS BRPG 4805 PRODUCING INTERVAL(S) DATA: PERF (GRAYBURG U) 4652, 4654, 4655, 4656, 4657, 4658, 4659, 4706, 4707, 4708, 4710, 4711, 4712, W/30 SHOTS, ACID (4652-4712) W/2000 GALS, SWFR (4652-4712) W/21000 GALS, 52100 LBS SAND, RESV - GRAYBURG; 8925 TD, PB 4805 COMP 9/24/87, IPP 56 BO, 39 MCFG, 287 BWPD GOR 696, GTY 34.8 PROD ZONE - GRAYBURG 4651-4712 MOBIL PRODUCING TX & NM 1-17S-35E SHOE BAR SOUTH; 11100 PENNSYLVANIAN, (FR 09/10/87MD) (ST APPD PMT: 09/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) 688-1772; EL OB/10/87) OPER ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) ADD: BOX 677, MIDLAND, TX, 78702 PHONE (815) ADD: BOX 677, MIDLAND, TX, 78702 PHONE	W/TR OIL IN 12 HRS BRPG 4805 PRODUCING INTERVAL(S) DATA: PERF (GRAYBURG U) 4652, 4655, 4656, 4656, 4657, 4658, 4659, 4700, 4701, 4711, 4712, W/30 SHOTS, ACID (4652-4712) W/2000 GALS, 4710, 4711, 4711, 4712, W/30 SHOTS, ACID (4652-4712) W/2000 GALS, 4712) W/21000 GALS, 52100 LBS SAND, RESV - GRAYBURG; 8925 TD, PB 4805 COMP 9/24/87, IPP 56 BO, 39 MCFG, 287 BWPD GOR 696, GTY 34.8 PROD ZONE - GRAYBURG 4651-4712	SHOE BAR SOUTH; 11100 PENNSYLVANIAN, (FR 09/10/87MD) (ST APPD PMT: DO 09/10/87) OPER ADD: BOX 677, MIDLAND, TX, 79702 PHONE (915) 688-1772; EL: OIL 3945 KB: LOCATION DATA: 21 MI MALJAMAR, NM; WELL ID CHANGES: FIELD CHGD FROM LEA CO UNDESIGNATED
	305 PRODUCING INTER , W/30 SHOTS, ACID (4652 9/24/87, IPP 56 BO, 39 A 1-17S-35E NE SE 1830 FSL 660 FEL SE IC 300257027787 #F BIG SLIB-16. SPID:	VAL(S) DATA: PERF (GRAYBURG U) 4652, 465: 4712) W/2000 GALS. SWFR (4652-4712) W/21000 ACFG, 287 BWPD GOR 696, GTY 34.8 PROD	SHOE BAR SOUTH; 11100 PENNSYLVAN 09/10/87) OPER ADD: BOX 677, MIDLAND, EC 3945 KB; LOCATION DATA: 21 MI MALJA CHGD FROM LEA CO UNDESIGNATED

CONTR: LANDIS DRLG, RIG #5 RIG SUB:15; SPUD: 10/05/87 CSG: 13 3/8 @ 466 W/500 SX, 8 5/8 @ 5200 W/3290 SX; LNR: 5 1/2 @ 4815-10957	W/1475 SX; TBG: 2 3/8 @ 10696; LOG TOPS: RUSTLER 1900, SALT 2098, QUEEN 4070, GLORIETA 6208, TUBB 7630, ABO 8298, WOLFCAMP 9464,	PENNSYLVANIAN 10810; 10957 TD, (PENNSYLVANIAN) (TD REACHED: 11/ 09/87) 10930 PBTD; RIG REL: 11/10/87; PRODUCING INTERVAL(S)	DATA: PERF (PENNSYLVANIAN), 10814-10818, 10824-10838, 10843-10847, 10853-10862, 10870-10874, W/145 SHOTS, CP PKR, NATURAL 10957, TD, PB	10930 COMP 11/27/87, IPF 385 BO, 469 MCFG THRU 20/64 CHK, GOR 1218, GTY 44.5, CP PKR, FTP 380 PROD ZONE -	V 10814-10874 NO CORES OR DSTS RPTD
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SHIPP; 11800 STRAWN, (FR 11/16/87MD) (ST APPD PMT: 11/16/87) OPER ADD: 500 WILCO BLDG. MIDLAND, TX, 79701 PHONE (915) 682-8717; EL: 3762 KB; LOCATION DATA: 4 MI N HUMBLE CITY, NM;
2-17S-37E NE SE 1830 FSL 660 FEL SEC IC 300257038987
AMERIND OIL 1 STATE "MTS" API 30-025-30148

ES: DIPM, SONL; 11835 TD, (STRAWN) (TD	2
PUD: 11/16/87 CSG: 12 3/4 @ 403, 8 5/8 @ 4500; LOG TYPES: DIPM, SONL; 11835 TD, (STRAWN) (TD	TD COMP 12/18/87, D&A NO CORES OR DSTS RPTD
CONTR: MORANCO, RIG #7 RIG SUB:15, SPUD: 11/16/	REACHED: 12/ 15/87), RIG REL: 12/18/87; 11835 TD CON

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QUERECHO PLAINS; 9200 BONE SPRING, (FR 07/27/87MD) (ST APPD PMT: 07/27/87) OPER ADD: BOX 7698, TYLER, TX, 75711 PHONE (505) 393-5905; EL: 3739 KB; LOCATION DATA: 9 MI S MALJAMAR, NM; WELL ID CHANGES: FTG CHGD FROM 1995 FWL INIT CLASS CHGD FROM DD API NBR CHGD FROM	30 -095-241 03 -0001
27-18S-32E SE NW 1980 FNL 1980 FWL SEC IC 300257021387	
MEWBOURNE OIL 13 FEDERAL "E" API 30-025-29994	

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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PENNZOIL COMPANY	STATE -2-
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4, Location of Well	10. Field and Pool, or Wildcat
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THE West LINE, SECTION 2 TOWNSHIP 17-S RANGE 37-E HMPM.	
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18, 1 hereby certify that the information above is true and comple	te to the best of my knowledge and belief. TITLE Production Accountant	DATE <u>November 30, 1987</u>
Access of Services	DISTRICT 1 SUPERVISOR	DFC 2 1987
CONDITIONS OF APPROVATION ANYL	•	

My instructions to you:

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0263.€ APP, Inc.	Your objections:

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 Well No. Operator Lease Pennzoil Company State 2 Section Township County 'nit Letter 17 South 37 East Lea Actual Footage Location of Well: 1980 660 south feet from the line and line Ground Level Elev. Producing Formation Dedicated Acreage: STRAWN UNDESIGNATED SHIPP STRAWN 3763.9 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3 If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation _ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if 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 my knowledge and Belief. ROY R. JOHNSON Position PRODUCTION ACCOUNTANT Company PENNZOIL COMPANY OCTOBER 5, 1987 I hereby certify that the well-location shown on this plat was plotted from field 660' notes of actual surveys made by me or is true and correct to the best of my knowledge and belief. Date Surveyed September 29, 1987 Registered Professional Engineer RONALD J. EIDSON 1320 1650 2000 1000

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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.

SCHIO PETROLEUM COMPANY 17 SOUTH 18 STEAST County 18 SOUTH 18	Operator			Lease		·	Well No.			
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Ground Lyvel Elev. Producting Formation 3751.4 Producting TRADAN SHIPP STRAWN SHIPP STRAWN 282.393 Agree 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? Yes No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION CERTIFICATION COMPANY Disc No CHILDEN COMPANY Disc Nounce Stray the information contained herein is true and complete to the best of my knowledge and belief. Name Community that the well facestant shown on this plat was platted from field more as it may and complete to the best of my knowledge and belief. Name of correct to the best of my knowledge for best of my knowledge for the stray of the community for the well facestant shown on this plat was platted from field more as a face of correct to the best of my knowledge and belief. November 12, 1987 Programmed Professional Engineer and or that shows and may the same is true and correct to the best of my knowledge and belief. Certificons No. John & with the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the community of the	Actual Footage Loc	ation of Well:								
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ecture and trially the first		CONSERVATION P. O. BOX 20			form C-101 - Revised 10-1	XI ULS DUUS TJ 1-18
DISTRIBUTION	SAI	ĺ	_	Type of Lease		
716					State Oil 4	Cos Loren No.
V.S.G.L.		7A15 [[]]			V-65	4
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. Type of Work	ON FOR PERMIT TO	WRIEL, DEEPEN, 1	JR PLUG BACK		7. Urut Agree	meal Name
DRILL X	OIL CONSERVAT	OLEPEN [7]	PLUG E	ACK		
Type of Voll OIL X WELL X	SANTA				I. Fern or Le	
				100 D	MTS "2"	State Rational and American
	ELABORA SAFIAS SOCIAM DE CASA	The state of the s				1
P. O. Box 7	28, Hobbs, New	Mexico 8824	n		Shipp S	Pool, or Wildcox
Location of Well			RET FROM THE Nort	hs	THITT	
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	West Lin	m^2mn^2		**************************************	12, County	millilli.
					Lea	
મિનિનિનિનિનિનિ		/////////////////////////////////////	9. Froposed Depth 1	9A. Formation		20. Rotary or C.T.
			11.700'	Strawn	Bank	Rotary
1. Elevations (show whether Di		& Signes Plug. Bond 2 anket	iB. Drilling Contractor			Date Work will start er 12, 1987
1.			CENEUT BROCKIN		1 00,000	er 12, 1907
		ROPOSED CASING AND		T========	·	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		SACKS OF		EST. TOP
24"	-} 20"	94#	40'	Redir	niv I	Surtace
24" 17-1/2"	20"	94#	40' 450'	Redir 550	nix	Surface Circulate
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17-1/2"	13-3/8"	48# 32# 17#	450' 4400' 11,700'	550	nix	Circulate
17-1/2" 12-1/4" 7-7/8"	13-3/8" 8-5/8" 5-1/2"	48# 32# 17# CEMENTIN	450' 4400' 11,700' G PROGRAM	550 2250 2250		Circulate Circulate Circulate
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17-1/2" 12-1/4" 7-7/8" SURFACE CAS	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1	32# 17# CEMENTING S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sac	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H , 5.2 gal. wtr ks Class "H" L	550 2250 2250 1/4# Flo) "H" w/15 ./sx., 1 " w/1/4; ./sx.). ight We:	ocele (l 5# Salt 11 gal. ; # Flocel	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg,
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17-1/2" 12-1/4" 7-7/8" SURFACE CAS INTERMEDIAT	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1	48# 32# 17# CEMENTING S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sac (12.7 p) followed 1/4# F16	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H ts Class "H" L pg, 1.81 cu. f d by 250 sacks ocele (15.6 pp	550 2250 2250 1/4# Flo) "H" w/l5 ./sx., " w/l/4; ./sx.). ight We: t./sx., Class	ocele (1 5# Salt 11 gal. # Flocel ight w/l 9.9 gal "H" w/0.	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg, /4# Flocele . wtr/sx.) 8% Halad-9 &
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17-1/2" 12-1/4" 7-7/8" SURFACE CAS INTERMEDIAT PRODUCTION	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1 CASING: 1st S	48# 32# 17# CEMENTING S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sac (12.7 p) followed 1/4# Flogal. wt	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H , 5.2 gal. wtr ks Class "H" L pg, 1.81 cu. f d by 250 sacks ocele (15.6 pp r./sx).	550 2250 2250 1/4# Flo) "H" w/15 ./sx., ight West./sx., Class g, 1.18	ocele (1 5# Salt 11 gal. ; # Flocel ight w/l 9.9 gal "H" w/0. cu. ft.	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg, /4# Flocele . wtr/sx.) 8% Halad-9 & /sx., 5.2
17-1/2" 12-1/4" 7-7/8" SURFACE CAS INTERMEDIAT PRODUCTION	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1 CASING: 1st S	48# 32# 17# CEMENTING S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sac (12.7 p) followed 1/4# Flogal. wt	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H , 5.2 gal. wtr ks Class "H" L pg, 1.81 cu. f d by 250 sacks ocele (15.6 pp r./sx). 1/4 Section.	550 2250 2250 1/4# Flo) "H" w/15 ./sx., ight West./sx., Class g, 1.18	ocele (1 5# Salt 11 gal. ; # Flocel ight w/l 9.9 gal "H" w/0. cu. ft.	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg, /4# Flocele . wtr/sx.) 8% Halad-9 & /sx., 5.2
17-1/2" 12-1/4" 7-7/8" SURFACE CAS INTERMEDIAT PRODUCTION	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1 CASING: 1st S	48# 32# 17# CEMENTING S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sack (12.7 p) followed 1/4# Flogal. wt in this 1/4,	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H , 5.2 gal. wtr ks Class "H" L pg, 1.81 cu. f d by 250 sacks ocele (15.6 pp r./sx). 1/4 Section.	550 2250 2250 1/4# Flo) "H" w/15 ./sx., ight Wei t./sx., Class g, 1.18	Scele (1 5# Salt 11 gal. # Flocel ight w/l 9.9 gal "H" w/0. cu. ft.	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg, /4# Flocele . wtr/sx.) 8% Halad-9 & /sx., 5.2
17-1/2" 12-1/4" 7-7/8" SURFACE CAS INTERMEDIAT PRODUCTION	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1 CASING: 1st S	48# 32# 17# CEMENTING S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sac (12.7 p) followed 1/4# Flogal. wt in this 1/4,	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H" L pg, 1.81 cu. fd by 250 sacks ocele (15.6 pp r./sx). 1/4 Section.	550 2250 2250 1/4# Flo) "H" w/ls ./sx., ight Wes t./sx., Class g, 1.18	ocele (1 5# Salt 11 gal. # Flocel ight w/l 9.9 gal "H" w/o. cu. ft.	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg, /4# Flocele . wtr/sx.) 8% Halad-9 & /sx., 5.2 n Page 2
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17-1/2" 12-1/4" 7-7/8" SURFACE CAS INTERMEDIAT PRODUCTION There are n Above space describe and the control of the control o	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1 CASING: 1st S	48# 32# 17# CEMENTIN S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sac (12.7 p) followed 1/4# F10 gal. wt in this 1/4, Plant to the best L. J Distri	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H , 5.2 gal. wtr ks Class "H" L pg, 1.81 cu. f d by 250 sacks ocele (15.6 pp r./sx). 1/4 Section. Seeman ct Petr. Engr.	550 2250 2250 1/4# Flo) "H" w/ls ./sx., ight Wes t./sx., Class g, 1.18	Salt gal. flocele (land particular particula	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg, /4# Flocele . wtr/sx.) 8% Halad-9 & /sx., 5.2 n Page 2
17-1/2" 12-1/4" 7-7/8" SURFACE CAS INTERMEDIAT PRODUCTION There are n ABOVE SPACE DESCRIBE FROM CONTROL OF THE PROPERTY CONTROL This space for	13-3/8" 8-5/8" 5-1/2" ING: 550 sack 1.18 cu. E CASING: 200 Flo fol 1.1 CASING: 1st S	48# 32# 17# CEMENTING S Class "H" w ft./sx., 5.2 0 sacks Light cele (12.7 pp) lowed by 250 8 cu. ft./sx. tage: 700 sac (12.7 p) followed 1/4# Flagal. wt in this 1/4, The Distriction of the best 2.5 J Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J The Distriction of the best 2.5 J	450' 4400' 11,700' G PROGRAM ith 2% Cacl & gal. wtr./sx. Weight Class g, 2.10 cu. ft sacks Class "H" L pg, 1.81 cu. fd by 250 sacks ocele (15.6 pp r./sx). 1/4 Section.	550 2250 2250 1/4# F10) "H" w/15 ./sx., ight West./sx., Class g, 1.18 Cont	Salt 1 gal. # Flocel ight w/l 9.9 gal "H" w/o. cu. ft. tinued o	Circulate Circulate Circulate 5.6 ppg, & 1/4# wtr/sx.) e (15.6 ppg, /4# Flocele . wtr/sx.) 8% Halad-9 & /sx., 5.2 n Page 2

OIL CONSERVATION DIVISION

JE NEW MEXICO MINERALS DEPARTMENT

1840 2310

26 40

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-73

All distances must be from the outer houndaries of the Section. Well No. بر اداد Lease MTS "2" STATE 1 TEXACO INC. Hange County Unil Letter Section Township LEA 37-E 17-S Actual Postage Location of Well; WEST NORTH 2023 feet from the feet from the line and line Pool Dedicated Acreage: Ground Level Elev. Producing Formation SHIPP STRAWN 80 Acres STRAWN BANK 3765' 1. Outline the acrenge 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 enswer is "yes," type of consolidation _ No 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, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the Nome R.L. Eiland Division Surveyor Company Texaco Inc. September 18, 1987 I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervisigns and that the same true ord contest to the knowledge gna belief. 4386 2000 1500 1000

800

WELL NAM	ME AND NUM	BER MTS	State #1		** ** ******	7004
LOCATION	N Unit I (New Mexic	Sec 2, T17S	R37E Lea C	ounty, New Mex xas give S, B	ico (1830' LK, SURV.	FSL & 660' FEL)
OPERATO	R Amerind	Oil Company	نرا الم	364	·	· · · · · · · · · · · · · · · · · · ·
DRILLING	CONTRACTO	OR MORANCO	Drilling,	Inc.	<u>;</u>	
ing contra	actor who dr		ifies that b ve-describ	le. Is an author	ized repres	entative of the drill- onducted deviation
Degrees a	and Depth	Degrees a	nd Depth	Degrees a	nd Depth	Degrees and Depth
1/2	182	1	5026	2 1/4	10751	
1/4	403	3/4	5502	1 3/4	11215	
1/4	850	1	6006	. 3	11632	
1/2	1361	1	6511			
1/2	1714	L 1/2	7138			
1/2	2155	1 3/4	7648			
1/2	2494	1	8126			
3/4	2839	3/4	8694			
1 1/2	3211	3/4	8948			
1	3701	2 1/2	9360		····	
1	4206	1 3/4	9867			
1	4500	1_1/2	10245			
		Drillin	g Contract	or MORANCO	Drilling, In	c.
				By Wil	en X	Union
Subscrib	ed and swor	n to before n	ne this 2	Wiley Gi lst day of	December	eting Manager 1987
My Com	hission expir	es:		Lusie	Brang	ou
Januar				Notary Public Lea County N	Susie Bran	yon

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

	 •
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LANG OFFICE	
OPERATOR	

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-103

SANTA FE		s	ANTA FE, NEV	MEXICO 875	501		Revised 10-1-78
FILE						5a. Indicate Type o	í Lease
LANG OFFICE						State XX	Fee 🗌
OPERATOR			•	•		5. State Oil 6 Gas	Lease No.
		*	 			V-654	
(00 MOT USE	THIS FORM-FOR PRO	POSALS TO DRILL OF	ND REPORTS ON	BACK TO A DIFFERENT	45470VAIE.		
	USE "APPLICATI	ON FOR PERMIT _"	(FORM C-101) FOR SU	CH PROPOSALS.)		7. Unit Agreement	77777777
·· OIL XX	پیدر 🗆	4244				7. Onte Agreement	veme
. Name of Operator	With Co.	OTHER-		 	 	8. Form or Lease I	igme
	nd Oil Co.					State MTS	
1. Address of Operato			· · · · · · · · · · · · · · · · · · ·			9. Well No.	
500 W	ilco Bldg.,	Midland, T	X 79701			1	
4. Location of Well					" 	10. Field and Pool,	, or Wildcat
UNIT LETTER	I18	330 PERT P	South	LINE AND 6	50 FEET PROM	Shipp Straw	n
THE East	LIME, SECTIO	<u> </u>	TOWNSHIP 175	RANGE	37E NMPM		
mmm	mmm	WWW 51-	vation (Show whether	DE RT CR 1	······································	12. County	HHHHH
		/////	46' GL, 3762			Lea	
711111111111111111111111111111111111111	Charle				D 0	-4	777777777
	NOTICE OF IN		ox To Indicate I	vature of Notic		her Data TREPORT OF:	
	NOTICE OF III	TENTION TO:			SOBSEQUEN	REPORT OF:	
PERFORM REMEDIAL W	ORE	Pr	LUE AND ABANDON	REMEDIAL WORK		ALTERING	CASING
TEMPORARILY ABANDO			_	COMMENCE DRILLI	NE OPNS.	PLUS AND	ABANDONMENT
PULL OR ALTER CASIN	• 🔲		HANGE PLANS	CASING TEST AND	EMENT JQB XX		
				OTHER			
OTHER							
:7 Describe Propose	or Completed On	erations /Clearly	state all pertinent det	ails, and sive pertin	ent dates, including	estimated date of sta	uting any proposed
work) SEE RULE	E 1103.						
Burface Basing:	November 1	o, 190/ - r	(an 400 12-3 1031 Cin 35	/4 35# 31&6 cv DD //•15	CSG W/IX pa D M MST 11/	ttern guide s 18/87. <u>Rule 1</u>	noe & 3
Jus mg.	1) 462 cu	ft Southwes	stern El Toro	cmt. 350 sx	Cls "C" w/2	% $CaC1_2$. 2)	Annrox temp
	of slurry	when mixed	70°F. 3) E	st min forma	tion temp 80	°F. 4) Est c	mt strength
	@ time of	test 1045 p	osi. 5) Ťime	in place 13	-3/4 hrs.	,	
ntermediate			Ran 8-5/8" cs				1.00'
casing:	MOVEMBET 2	0, 1507	1411 0 07 0 03	g as 10110 4 5	1 jt 8-5/8		42.26'
,					Float coll		1.60'
					46 jts 8-5	/8" 32# J-55	1978.47'
						/8" 24# J-55.	2432.67'
					1 jt 8-5/8		28.00'
						B correction	16.00
					I	otal string	4500.00
	Set @ 4500	'. Ran 3 ce	entralizers @	4480', 4415	', 4331'. PD	12:30 P.M. M	ST 11/25/87.
	Circ 125 s	x. Ran flui	id caliper. R	ule 107 - Op	<u>tion 2:</u> 1)	3164 cu ft So	uthwestern
						eal & 200 sx	
	2) Approx 4) Est cm	temp of Si	urry when mix	(ed /U°F	3) Est min 1	formation temp	o 110°F.
	4) LSC CIII	t strength	e time or tes	st 1900 h21	o) time in p	olace 15-3/4	irs.
.8. I hereby certify the	net the information	above is true and	complete to the best	ol wa knowledge and	l belief.		
- </td <td>/////</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	/////						
SIGNED LOS	co dech	ink	71TLE	/ice Presider	1t	December	er 1, 1987
	Rebert 6. I	-cibrock					
	12. 146/	~! A		and the second of the second			
		<u> </u>	TITLE		 	. DATE	
CONDITIONS OF AP	PROYAL, IF ANY:						

ENERGY AND MINERALS DEPARTMENT

	T	•
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		Г

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DATIL OR TO DESERVE OR MUSE SALE PROPOSALS: OIL XX SAS WELL OTHER. Name of Operator Amerind Oil Co. Address of Operator 500 Wilco Bldg., Midland, TX 79701 Location of Well UNIT LETTER I 1830 PEET PROM THE SOUTH LINE AND 660 PEET PROM THE East LINE, SECTION 2 TOWNSHIP 17S RANGE 37E NMPM.	a. Indicate Type of Lease State XX Fee State Oil & Gas Lease No. V-654 Unit Agreement Name
OIL XX WELL OTHER- Name of Operator Amerind Oil Co. Address of Operator 500 Wilco Bldg., Midland, TX 79701 Location of Well UNIT LETTER I 1830 PEET PROM THE SOUth LINE AND 660 PEET PROM THE East LINE, SECTION 2 TOWNSHIP 17S RANGE 37E NAMEM. 15. Elevation (Show whether DF, RT, GR, etc.) 3746' GL, 3762' KB	, Unit Agreement Name
OIL XX WELL OTHER- Name of Operator Amerind Oil Co. Address of Operator 500 Wilco Bldg., Midland, TX 79701 Location of Well UNIT LETTER I 1830 PEET PROM THE South LINE AND 660 PEET PROM THE East LINE, SECTION 2 TOWNSHIP 17S RANGE 37E NMPM. 15. Elevation (Show whether DF, RT, GR, etc.) 3746' GL, 3762' KB	. Unit Agreement Name
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500 Wilco Bldg., Midland, TX 79701 Location of Well UNIT LETTER I 1830 PEET PROM THE SOUTH LINE AND 660 PEET PROM THE East LINE, SECTION 2 TOWNSHIP 17S RANGE 37E NAME. 15. Elevation (Show whether DF, RT, GR, etc.) 3746' GL, 3762' KB	. Farm or Lease Name State MTS
Location of Weil UNIT LETTER I 1830 PEET PROM THE SOUTH LINE AND 660 PEET PROM THE East LINE, SECTION 2 TOWNSHIP 17S RANGE 37E HMPM. 15. Elevation (Show whether DF, RT, GR, etc.) 3746' GL, 3762' KB	. Well No.
3746' GL, 3762' KB	O. Field and Pool, or Wildcan Shipp Strawn
Check Appropriate Box To Indicate Nature of Notice, Report or Other	2. County Lea
NOTICE OF INTENTION TO: SUBSEQUENT	
TERFORM REMEDIAL WORK PLUS AND ASANDON REMEDIAL WORK COMMENCE ORILLING OPHS. CHANGE PLANS CASING TEST AND CEMENT JOB OTHER TO DESCRIBE Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including es	ALTERING CABING PLUG AND ABANDONMENT

Well was spud at 7:00 A.M. MST 11/18/87.

). I hereby certify that the information above is true and com	piete to the best of my knowledge and belief.	
CHED Debout I Laibmack	Vice President	November 19, 1987
ROBERT V. LETBYSCK	•	
PROVED BY		DATE

NERGY AND MINER	RALS DEPA		OIL		RVAT	ION DIVISI	ON		30-0 Form C-101 Revised 10		30148 _V
DISTRIBUT	IÓN		CSA	NTA-FE	-NEW-M	EXICO 87501	1	ſ	5A. Indicat	e Type of	Lease
SANTA FE			בלוחל		TWIST			1	STATE	X	7EE .
FILE			1005					1	5. State OII	6 Gas Le	gee No.
U.S.G.S.				101/00				Ì	V-65		
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		_		SANTA	<u> </u>				ri Oliai Agi	edmottt lørr	· ·
. Type of Well	DRILL X]		DEEPEN		1	PLUG BAC	к 🔲 🖡			_ <u></u>
		,					*****		8. Farm or 1		•
MELL X	WELL	07HC			···	SINGLE ZONE	MULTIPL 2 ON			State	MIS
Name of Operator								***	9. Well No.		
	rind Oi	1 Co.			·		•]	<u> </u>	
Address of Operato		.							10. Field a	nd Pool, or	Wildcat
	Wilco	<u>Building,</u>	Midlan	d, Texa	s 797	01	·		Shipp	Strawn	1
Location of Well	UNIT LETT	er <u>I</u>	LOC	ATED 183	0	FEET FROM THES	outh	LINE			
											
. 660	FEET FROM	THE East	LIN	E OF SEC.	2	TWP. 175 REI	e. 37E	NMPM	IIIIII	\overline{IIIII}	
	111111	MITTE		111111				11117	12. County		
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HHHH	4444	+++++	77777	HHH	4444	19. Proposed Depth	19A.	Formation		20. Rota	ry or C.T.
					1/////	11,800	A	toka		Rot	ary
. Elevations (Show	whether DF	KT, etc.)	21A. Kind	& Status P	lug. Bond	21B. Drilling Contro			22. Approx	<u> </u>	rk will start
3746' GL		I		nket	1	Moranco Dr		Co	Nov. 16		
3740 QL			<u> </u>	IINCL	<u>1</u>	moj anco bi	1111119		11101. 11	25 2307	
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SIZE OF HO	n F	SIZEOF	ASING	WEIGHT	PER FOO	T SETTING DE	DTU SA	CKS OF	CEMENT		T. TOP
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11		8-5/			& 32#	4,5001		1,800		surf	
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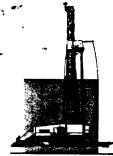
Permit Expires 6 Menths From Approval Data Unless Drilling Underway.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-162 Supersedes C-128 Effective 1-1-65

6689

All distances must be from the outer boundaries of the Section Lease Well No. 1 41 1101 AMERIND OIL COMPANY MTS STATE nit Letter Section Township Hange 17-S 37-E LEA croal Footage Location of Well: 1830 660 EAST SOUTH feet from the teet from the line and mant Level Elev. Producing Formation Pool Dedicated Acreage, 3746 Shipp Strawn Strawn Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? No If answer is "yes," type of consolidation _ 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 Commis-CERTIFICATION I hereby certify that the information con-Robert C. Leibrock Vice President Company Amerind Oil Co. November 12, 1987 I hernby certify that the well location at actual surveys made by 1830 NOVEMBER/511987



RIG 7 9,000' - 14,000'

MORANCO DRILLING, INC.

P.O. Box 1860 • Hobbs, New Mexico 88240 • 505/397-3511 • 915/563-0562

DRAWWORKS

Brewster N-75

Drum: 11/4" Lebus grooved

Compound: 2-engine oil bath chain drive

Brake: Hydromatic Parkersburg 40" Satellite Automatic Driller

Duo-O-Matic Crown Block Protector

ENGINES

Two 610-H.P. D379TA Caterpillar Diesel.

DERRICK

Lee C. Moore, 131', 550,000-lb. nominal capacity.

SUBSTRUCTURE

Lee C. Moore, 141/2' high, 550,000-lb. nominal capacity.

MUD PUMPS

Pump No. 1: Emsco DB700. 700-H.P. with steel fluid end. 4%" – 7%" liners, 16" stroke. Compound driven. Pump No. 2: Emsco 500. 500-H.P. powered by D379 Caterpillar Diesel.

DRILL STRING

3,000' 4½" Grade E, 20-lb. Tool Joints: 4½" XH, 6¼" OD. 11,000' 4½" Grade E, 16.60-lb. Tool Joints: 4½" XH, 6½" OD.

Tool Joints: 4½" XH, 6¼" OD.
Thirty Drilco spiral-grooved 6½" OD, 2¼" ID with 4¼" H-90

Joints.

Other sized drillpipe and drillcollars available.

BLOWOUT PREVENTERS

One Shaffer LWS hydraulic double 11" \times 5,000 p.s.i. One Hydril 11" \times 5,000 p.s.i. Choke manifold 4" \times 5,000 p.s.i. flanged connections. Payne 4-valve accumulator closing unit.

MUD SYSTEM

Three 30' x 7%' x 6' steel pits with 700-bbl capacity and one 250-bbl slug pit. Complete low pressure circulating system, consisting of four submerged mud guns and two countersunk jets in each pit. System utilizes a 6 x 8 centrifugal pump, powered by diesel.

MUD HOUSE

One 8' x 30' Steel Storage House.

COMMUNICATIONS

24-hour direct telephone interconnection through Hobbs (505/393-1111) or Midland-Odessa (915/563-0562).

OTHER EQUIPMENT

BLOCKS. 350-ton.

HOOK, 350-ton.

SWIVEL. 350-ton.

ROTARY TABLE. 201/2".

SHALE SHAKER. Harrisburg single screen.

ELECTRICAL POWER. Two **50**-kw AC generators powered by diesel engines. AC fluorescent or mercury lights. All vapor-proof.

FRESH WATER STORAGE. Three 500-bbl horizontal tanks.

HOUSING. One 12-25 air-conditioned trailer house with sleeping and cooking facilities.

