MERIDIAN OIL

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an 10566

September 9, 1992

Mr. Michael E. Stogner
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504
Re; Application for Unorthodox Coal Gas Well Location

Howell K #304 695'FSL, 840'FEL, Section 15, T-30-N, R-8-W San Juan County, New Mexico

Dear Mr. Stogner:

Please cancel our administrative application for the above referenced well location. Per your letter of September 1, 1992, concerning placing this well on the docket for October 1, 1992, please cancel this well from that hearing. Meridian Oil Inc. does not now plan to drill this well.

Thank you for your work concerning this application.

Sincerely, Stalfuld ears

Peggy Bradfield Regulatory Affairs

:pb

cc: New Mexico Oil Conservation Division - Aztec Bureau of Land Management Bureau of Reclamation

### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION

September 1, 1992

POST OFFICE BOX 2088

STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504

(505) 827-5800

Case 10566

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499-4289

Attention: Peggy Bradfield

RE: Administrative application for an unorthodox coal gas well location for the Howell "K" Well No. 304 located 695' FSL and 840' FEL (Unit A), Section 15, Township 30 North, Range 8 West, NMPM, San Juan County, New Mexico.

Dear Ms. Bradfield:

I am unable to process the subject application dated August 5, 1992 at this time. Although your application did not indicate the presence of an existing coal gas well producing the E/2 equivalent of said Section 15, our records show your Howell "K" Well No. 300 is currently dedicated to said acreage. Rule 4 of the Special Rules and Regulations for the Basin Fruitland Coal Gas Pool, promulgated by Division Order No.

Your application will be properly set for hearing before a Division Examiner on the next available docket which is scheduled for October 1, 1992. Please provide adequate notice of this matter pursuant to Special Rule 4(b).

Should you have any questions or comments concerning this matter, please contact me.

R-8768, as amended, provides for infill drilling in said pool only after notice and hearing.

Sincerely

Michael E. Stogner Chief Hearing Officer/Engineer

MES/amg

cc: Oil Conservation Division - Aztec
 U.S. Bureau of Land Management - Farmington
 U.S. Bureau of Reclamation - Durango
 Navajo Lake State Park

R. W. Byram & Co., - July, 1991

(CEDAR HILL-FRUITLAND BASAL COAL GAS (VERTICAL LIMITS EXTENSIONS) POOL - Cont'd.)

further defined and described as having vertical limits consistent within the vertical extension of the Cedar Hill-Fruitland Basal Coal Pool.

(3) Rule 1 of said Division Order No. R-7588, as amended is hereby suspended and shall be replaced with the following:

RULE 1. (A) Each well completed or recompleted in the Cedar Hill-Fruitland Basal Coal Pool shall be spaced, drilled, operated and prorated in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 1. (B) A Cedar Hill-Fruitland Basal Coal Pool well will be defined as one which meets a preponderance of the generally characterized coalbed methane criteria as derived from:

(a) Wireline log data:

- (b) Drilling time;
- Drill cutting; Mud logs; (ċ)
- (d)
- Completion data; (e)
- (f) Gas analysis;
- Water analysis;
- (g) (h)

Reservoir performance; Any other evidence that indicates the production is (i) predominantly coal methane.

No one characteristic of lithology, performance or sampling will either qualify or disqualify a well from being classified as a coal gas well. Absent any finding to the contrary, any well completed in accordance with these rules that has met a preponderance of the criteria for determining a coal well is therefrom presumed to be completed in and producing from the Cedar Hill Fruitland Basal Coal Pool. The District Supervisor may, at his discretion, require that an operator document said determination of the appropriate pool or require an order under the provisions of General Rule 303(c) authorizing the commingling of pools in the event a coal well fails to meet the criteria for a coal well as set forth in this rule.

T IS FURTHER ORDERED THAT:

(4) Any well drilling to or completed in a coal member of the Fruitland formation within this vertical extension of the Cedar Hill-Fruitland Basal Coal Pool on or before November 1, 1988 that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of said rule. The operator of any such well shall notify the Aztec District Office of the Division, in writing, of the name and location of any such well on or before January 1, 1989.

Applicant's request to authorize downhole commingling of Fruitland Sandstone Gas and Fruitland Coal Gas at the District Office level of the Division is hereby denied.

(6) This case shall be reopened at an examiner hearing in October, 1990, at which time the operators in the subject pool may appear and show cause why the vertical extension of the Cedar Hill-Fruitland Basal Coal Pool should not be rescinded and Division Order No. R-7588, as amended, should not be reinstituted as they existed prior to the issuance of this order.

(7) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

SECTION II

BASIN-FRUITLAND COAL GAS POOL San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico

Order No. 8768, Creating and Adopting Temporary Operating Rules for the Basin-Fruitland Coal Pool, San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico, November 1, 1988, as Amended by Order No. R-8768-A, July 16, 1991.

In the Matter of the Hearing called by the Oil Conservation Division (OCD) on its own Motion for Pool Creation and Special Pool Rules, San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico.

CASE NO. 9420 Order No. R-8768

#### ORDER OF THE DIVISION

BY THE DIVISION: This Cause came on for hearing at 8:30 a.m. on July 6, 1988, at Farmington, New Mexico, before Examiner David R. Catanach.

NOW, on this 17th day of October, 1988, 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 Case Nos. 9420 and 9421 were consolidated at the time of the hearing for the purpose of testimony.

(3) The Oil Conservation Division, hereinafter referred to as the "Division", on the recommendations of the Fruitland Coalbed Methane Committee, hereinafter referred to as the "Committee", seeks the creation of a new pool for the production of gas from coal seams within the Fruitland formation underlying the following described area in San Juan, Rio Arriba, McKinley, and Sandoval Counties, New Mexico:

Township	19	North,	Ranges	1	West	through	6 West;
Township	20	North,	Ranges	1	West	through	8 West;
Township	21	North,	Ranges	1	West	through	9 West;
Township	22	North,	Ranges	1	West	through	11 West;
Township	23	North,	Ranges	1	West	through	14 West;
Township	24	North,	Ranges	1	East	through	16 West:
Township	25	North,	Ranges	1	East	through	16 West;
Township	26	North,	Ranges	1	East	through	16 West;
Township	27	North,	Ranges	1	West	through	16 West;
Township	28	North,	Ranges	1	West	through	16 West;
Township	29	North,	Ranges	1	West	through	15 West;
Township	30	North,	Ranges	1	West	through	15 West;
Township	31	North,	Ranges	1	West	through	15 West;
Township	32	North,	Ranges	.1	West	through	13 West;

(4) The Division further seeks, also upon the recommendations of the Committee, the promulgation of special pool rules, regulations, and operating procedures for said pool including, but not limited to, provisions for 320-acre spacing and proration units, designated well locations, well density, horizontal wellbore and deviated drilling procedures, venting and flaring rules, downhole commingling, and gas well testing requirements.

Page 588 New Mexico

#### (BASIN-FRUITLAND COAL GAS POOL - Cont'd.)

(5) In companion Case No. 9421, the Division seeks to contract the vertical limits of twenty-six existing Fruitland and/or Fruitland-Pictured Cliffs Gas Pools to include only the Pictured Cliffs sandstone and/or Fruitland sandstone intervals.

(6) The Committee, which included representatives of the oil and gas industry, New Mexico Oil Conservation Division, Colorado Oil and Gas Conservation Commission, Bureau of Land Management, and Southern Ute Indian Tribe, was originally formed in 1986 for the purpose of studying and making recommendations to the Division as to the most orderly and efficient methods of developing coal seam gas within the Fruitland formation.

(7) Geologic evidence presented by the Committee indicates that the Fruitland formation, which is found within the geographic area described above, is composed of alternating layers of shales, sandstones, and coal seams.

(8) The evidence at this time further indicates that the coal seams within the Fruitland formation are potentially productive of natural gas in substantial quantities.

(9) The gas originating from the coal seams within the Fruitland formation is composed predominantly of methane and carbon dioxide and varies significantly from the composition of the gas currently being produced from the sandstone intervals, and as such, represents a separate common source of supply.

(10) A new pool for gas production from coal seams within the Fruitland formation should be created and designated the Basin-Fruitland Coal Gas Pool with vertical limits comprising all coal seams within the equivalent of the stratigraphic interval from a depth of approximately 2450 feet to 2880 feet as shown on the Gamma Ray/Bulk Density log from Amoco Production Company's Schneider Gas Com "B" Well No. 1 located 1110 feet from the South line and 1185 feet from the West line of Section 28, Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico.

(11) The proposed horizontal pool boundary, which represents the geographic area encompassed by the Fruitland formation, contains within it, an area previously defined as the Cedar Hill-Fruitland Basal Coal Gas Pool (created by Division Order No. R-7588 effective February 1, 1984); said area currently comprises Sections 3 through 6 of Township 31 North, Range 10 West, and Sections 19 through 22 and 27 through 34 of Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico.

(12) The proposed horizontal boundary of the Basin-Fruitland Coal Gas Pool should be amended to exclude that acreage currently defined as the Cedar Hill-Fruitland Coal Gas Pool described in Finding No. (11) above.

(13) The Committee has recommended the promulgation of special rules and regulations for the Basin-Fruitland Coal Gas Pool including a provision for 320-acre spacing and proration units, and in support thereof presented pressure interference data obtained from producing and pressure observation wells located within the Cedar Hill-Fruitland Coal Gas Pool, which indicates definite pressure communication between wells located 2,180 feet apart (radius of drainage of a 320-acre proration unit = 2,106 feet).

(14) Further testimony and evidence indicates that due to the unique producing characteristics of coal seams (i.e. initial inclining production rates), engineering methods such as decline curve analysis and volumetric calculations traditionally used to aid in the determination of proper well spacing, cannot be utilized.

(15) The Committee further recommended the adoption of a provision in the proposed pool rules allowing for the drilling of a second well on a standard 320-acre proration unit in order to give an operator flexibility when addressing regional geological trends.

(16) Dugan Production Corporation, Merrion Oil and Gas Corporation, Hixon Development Company, Robert L. Bayless, and Jerome P. McHugh and Associates, hereinafter referred to as the "Dugan Group", appeared at the hearing and presented geologic and engineering evidence and testimony in support of a proposal which includes the following:

1. Establishment of an area within the Southern portion of the Basin-Fruitland Coal Gas Pool to be developed on 160-acre spacing and proration units.

2. Creation of a demarcation line and buffer zone separating the 320-acre spacing portion of the pool and the proposed 160acre spacing portion of the pool.

(17) The Dugan Group owns oil and gas leasehold operating rights in the Fruitland formation in various areas of the San Juan Basin, and currently operates numerous wells producing from coal seams and sandstone intervals within the Fruitland formation.

(18) The Dugan Group has defined the location of the proposed demarcation line and 160-acre spacing area by utilizing a preponderance of geologic factors such as coal rank, depth of burial, thermal maturation, thickness of coal, and amount of gas in place.

(19) In support of the proposed 160-acre spacing area for the subject pool, the Dugan Group presented production data obtained from four producing wells, the Nassau Well Nos. 5, 6, 7 and 8 located in Section 36, Township 27 North, Range 12 West, NMPM, San Juan County, New Mexico, which indicates that the production rate from said Nassau Well No. 5 was unaffected by initiation of 160-acre offset production in said Nassau Well Nos. 6, 7, and 8.

(20) The evidence presented by the Dugan Group further indicates however, that the Nassau Well Nos. 5, 6, 7, and 8 are producing from commingled coal seam and sandstone intervals within the Fruitland formation, and as such, do not conclusively demonstrate 160-acre non-interference exclusively within the coal seams.

(21) Insufficient evidence exists at the current time to justify the creation of a 160-acre spacing area and demarcation line within the Basin-Fruitland Coal Gas Pool.

(22) The best technical evidence available at this time indicates that 320-acre well spacing is the optimum spacing for the entire Basin-Fruitland Coal Gas Pool.

(23) In order to prevent the economic loss caused by the driling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, prevent reduced recovery which might result from the drilling of too few wells, and to otherwise protect correlative rights, special rules and regulations providing for 320-acre spacing units should be promulgated for the Basin-Fruitland Coal Gas Pool.

(24) The special rules and regulations should also provide for restrictive well locations in order to assure orderly development of the subject pool and protect correlative rights.

(25) Due to the relatively large area encompassed by the Basin-Fruitland Coal Gas Pool, and the relatively small amount of reservoir data currently available, the special rules and regulations should be promulgated for a temporary period of two years in order to allow the operators in the subject pool the opportunity to gather additional reservoir data relative to the determination of permanent spacing rules for the subject pool and/or specific areas within the pool.

(26) The evidence and testimony presented at the hearing is insufficient to approve at the present time, the proposed provision allowing for the drilling of a second well on a standard 320-acre proration unit.

#### (BASIN-FRUITLAND COAL GAS POOL - Cont'd.)

(27) The Committee further recommended the adoption of a provision in the Special Rules and Regulations allowing the venting or flaring of gas from a Basin-Fruitland Coal Gas well during initial testing in an amount not to exceed a cumulative volume of 50 MMCF or a period not to exceed 30 days.

(28) The evidence presented does not justify the establishment of a specific permissible volume of gas to be vented or flared from Basin-Fruitland Coal Gas Wells at this time, however, the supervisor of the Aztec district office of the Division should have the authority to allow such venting or flaring of gas from a well upon a demonstration such flaring or venting is justified and upon written application from the operator.

(29) Evidence and testimony presented at the hearing indicates that the gas well testing requirements as contained in Division Order No. R-333-I may cause damage to a Basin Fruitland Coal Gas Well, and that special testing procedures should be established.

(30) The special rules and regulations promulgated herein should include operating procedures for determination and classification of Basin-Fruitland Coal Gas Wells, horizontal wellbore and deviated drilling procedures, and procedures and guidelines for downhole commingling.

(31) This case should be reopened at an examiner hearing in October, 1990, at which time the operators in the subject pool should be prepared to appear and present evidence and testimony relative to the determination of permanent rules and regulations for the Basin-Fruitland Coal Gas Pool.

IT IS THEREFORE ORDERED THAT: (1) Effective November 1, 1988, a new pool in all or parts of San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico, classified as a gas pool for production from Fruitland coal seams, is hereby created and designated the Basin-Fruitland Coal Gas Pool, with vertical limits comprising all coal seams within the equivalent of the stratigraphic interval from a depth of approximately 2450 feet to 2880 feet as shown on the Gamma Ray/Bulk Density log from Amoco Production Company's Schneider Gas Com "B" Well No. 1 located 1110 feet from the South line and 1185 feet from the West line of Section 28, Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico.

(2) The horizontal limits of the Basin-Fruitland Coal Gas Pool shall comprise the following described area in all or portions of San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico, with the exception of Section 3 through 6 of Township 31 North, Range 10 West, and Section 19 through 22, and 27 through 34 of Township 32 North, Range 10 West, San Juan County, New Mexico, which said acreage currently comprises the Cedar Hill-Fruitland Basal Coal Gas Pool:

(3) Temporary Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool are hereby promulgated as follows:

## SPECIAL RULES AND REGULATIONS FOR THE BASIN-FRUITLAND COAL GAS POOL

RULE 1. Each well completed or recompleted in the Basin-Fruitland Coal Gas Pool shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations

hereinafter set forth. \_ RULE 2. A gas well within the Basin-Fruitland Coal Gas Pool shall be defined by the Division Director as a well that is producing from the Fruitland coal seams as demonstrated by a preponderance of data which could include the following:

a. Electric Log Data b. Drilling Time c. Drill Cuttings of Log Cores d. Mud Logs

Completion Data e,

f. Gas Analysis

Water Analysis ĥ.

**Reservoir** Performance

i. Other evidence which may be utilized in making such determination.

RULE 3. (As Amended by Order No. R-8768-A, July 16, 1991) The Division Director may require the operator of a proposed or existing Basin-Fruitland Coal Gas well, Fruitland Sandstone well, or Pictured Cliffs Sandstone well, to submit certain data as described in Rule (2) above, which would not otherwise be required by Division Rules and Regulations, in order to demonstrate to the satisfaction of the Division that said well will be or is currently producing from the appropriate common source of supply. The confirmation that a well is producing exclusively from the Basin-Fruitland Coal Gas Pool shall consist of approval of Division Form C-104, provided however that such approval shall be for Division purposes only, and shall not preclude any other governmental jurisdictional agency from making its own determination of production origination utilizing its own criteria.

RULE 4. (As Amended by Order No. R-8768-A, July 16, 1991) Each well completed or recompleted in the Basin-Fruitland Coal Gas Pool shall be located on a standard unit containing 320 acres, more or less, comprising any two contiguous quarter sections of a single governmental section, being a legal subdivision of the United States Public Lands Survey.

Individual operators may apply to the Division for an exception to the requirements of Rule No. (4) to allow the drilling of a second well on standard 320-acre units or on approved non-standard units in specifically defined areas of the pool provided that:

(a) Any such application shall be set for hearing before a Division Examiner:

(b) Actual notice of such application shall be given to operators of Basin-Fruitland Coal Gas Pool wells, working interest owners of undrilled leases, and unleased mineral owners within the boundaries of the area for which the infill provision is requested, and to all operators of Basin-Fruitland Coal Gas Pool wells within one mile of such area, provided however any operator in the pool or other interested party may appear and participate in such hearing.

Such notice shall be sent certified or registered mail or by overnight express with certificate of delivery and shall be given at least 20 days prior to the date of the hearing.

RULE 5. (As Amended by Order No. R-8768-A, July 16, 1991) The Supervisor of the Aztec district office of the Division shall have the authority to approve a non-standard gas proration unit within the Basin-Fruitland Coal Gas Pool without notice and hearing when the unorthodox size or shape is necessitated by a variation in the legal subdivision of the United States Public Lands Survey and/or consists of an entire governmental section and the non-standard unit in not less than 70% nor more than 130% of a standard gas proration unit. Such approval shall consist of acceptance of Division Form C-102 showing the proposed non-standard unit and the acreage contained therein.

Page 590 New Mexico

RULE 6. (As Amended by Order No. R-8768-A, July 16, 1991) The Division Director may grant an exception to the requirements of Rule (4) when the unorthodox size or shape of the gas proration unit is necessitated by a variation in the legal subdivision of the United States Public Lands Survey and the non-standard gas proration unit is less than 70% or more than 130% of a standard gas proration unit, or where the following facts exist and the following provisions are complied with:

(a) the non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.

(b) The non-standard unit lies wholly within a governmental half section, except as provided in paragraph (c) following.

(c) The non-standard unit conforms to a previously approved Blanco-Mesaverde or Basin-Dakota Gas Pool non-standard unit as evidenced by applicant's reference to the Division's order number creating said unit.

(d) The applicant presents written consent in the form of waivers from all offset operators or owners of undrilled tracts and from all operators owning interests in the half section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.

(e) In lieu of paragraph (d) of this rule, the applicant may furnish proof of the fact that all of the aforesaid parties were notified by certified or registered mail or overnight express mail with certificate of delivery of his intent to form such non-standard unit. The Division Director may approve the application if no such party has entered an objection to the formation of such non-standard unit within 30 days after the Division Director has received the application.

(f) The Division Director, at his discretion, may set any application under Rule (6) for public hearing.

RULE 7. The first well drilled or recompleted on every standard or non-standard unit in the Basin-Fruitland Coal Gas Pool shall be located in the NE/4 or SW/4 of a single governmental section and shall be located no closer than 790 feet to any outer boundary of the proration unit nor closer than 130 feet to any quarter section line nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary.

RULE 8. The Division Director may grant an exception to the requirements of Rule (7) without hearing when an application has been filed for an unorthodox location necessitated by topographical conditions, the recompletion of a well previously drilled to a deeper horizon, provided said well was drilled at an orthodox or approved unorthodox location for such original horizon, or the drilling of an intentionally deviated horizontal wellbore. All operators or owners of undrilled tracts offsetting the proposed location shall be notified of the application by registered or certified mail, and the applicant shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all parties described above or if no objections to the unorthodox location has been entered within 20 days after the Director has received the application.

RULE 9(A). The Division Director shall have the authority to administratively approve an intentionally deviated well in the Basin-Fruitland Coal Gas Pool for the purpose of penetrating the coalbed seams by means of a wellbore drilled horizontally, provided the following conditions are complied with:

(1) the surface location of the proposed well is a standard location or the applicant has obtained approval of an unorthodox surface location as provided for in Rule (8) above. (2) The bore hole shall not enter or exit the coalbed seams outside of a drilling window which is in accordance with the setback requirements of Rule (7), provided however, that the 10 foot setback distance requirement from the quarter-quarter section line or subdivision inner boundary shall not apply to horizontally drilled wells.

(B) To obtain administrative approval to drill an intentionally deviated horizontal wellbore, the applicant shall file such application with the Santa Fe and Aztec offices of the Division and shall further provide a copy of such application to all operators or owners of undrilled tracts offsetting the proposed gas proration unit for said well by registered or certified mail, and the application shall state that such notice has been furnished. The application shall further include the following information:

(1) A copy of Division Form C-102 identifying the proposed proration unit to be dedicated to the well.

(2) Schematic drawings of the proposed well which fully describe the casing, tubing, perforated or open hole interval, kick-off point, and proposed trajectory of the drainhole section.

The Director may approve the application upon receipt of written waivers from all parties described above or if no objection to the intentionally deviated horizontal wellbore has been entered within 20 days after the Director has received the application. If any objection to the proposed intentionally deviated horizontal well is received within the prescribed time limit as described above, the Director shall, at the applicant's request, set said application for public hearing.

(C) During or upon completion of drilling operations the operator shall further be required to conduct a directional survey on the vertical and lateral portions of the wellbore and shall **submit** a copy of said survey to the Santa Fe and Aztec Offices of the Division.

(D) The Division Director, at his discretion, may set any application for intentionally deviated horizontal wellbores for public hearing.

RULE 10. Notwithstanding the provisions of Division Rule No. 404, the Supervisor of the Aztec district office of the Division shall have the authority to approve the venting or flaring of gas from a Basin-Fruitland Coal Gas Well upon a determination that said venting or flaring is necessary during completion operations, to obtain necessary well test information, or to maintain the producibility of said well. Application to flare or vent gas shall be made in writing to the Aztec district office of the Division.

RULE 11. Testing requirements for a Basin-Fruitland Coal Gas well hereinafter set forth may be used in lieu of the testing requirements contained in Division Order No. R-333-I. The test shall consist of a minimum twenty-four hour shutin period, and a three hour production test. The Division Director shall have the authority to modify the testing requirements contained herein upon a showing of need for such modification. The following information from this initial production test must be reported:

1. The surface shut-in tubing and/or casing pressure and date these pressures were recorded.

2. The length of the shut-in period.

3. The final flowing casing and flowing tubing pressures and the duration and date of the flow period.

4. The individual fluid flow rate of gas, water, and oil which must be determined by the use of a separator and measurement facilities approved by the Supervisor of the Aztec district office of the Division; and R. W. Byram & Co., - June, 1990

New Mexico Page 591

#### (BASIN-FRUITLAND COAL GAS POOL - Cont'd.)

5. The method of production, e.g. flowing, pumping, etc. and disposition of gas.

RULE 12. The Division Director shall have the authority to approve the commingling within the wellbore of gas produced from coal seams and sandstone intervals within the Fruitland and/or Pictured Cliffs formations where a finding has been made that a well is not producing entirely from either coal seams or sandstone intervals as determined by the Division. All such applications shall be submitted to the Santa Fe office of the Division and shall contain all the necessary information as described in General Rule 303 (C) of the Division Rules and Regulations, and shall meet the prerequisites described in 303 (C) (1) (b). In addition, the Division Director may require the submittal of additional well data as may be required to process such application.

RULE 13. The Division Director may approve the commingling within the wellbore of gas produced from coal seams and sandstone intervals within the Fruitland and/or Pictured Cliffs formations where a well does not meet the prerequisites as described in General Rule 303 (C) (1) (b) provided that such commingling had been accomplished prior to July 1, 1988, and provided further that the application is filed as described in Rule (12).

IT IS FURTHER ORDERED THAT:

(4) The locations of all wells presently drilling to, completed in, commingled in, or having an approved APD for the Basin-Fruitland Coal Gas Pool are hereby approved; the operator of any well having an unorthodox location shall notify the Aztec district office of the Division in writing of the name and location of the well within 30 days from the date of this order.

(5) Pursuant to Paragraph A. of Section 70-2-18, N.M.S.A. 1978, Comp., contained in Laws of 1969, Chapter 271, existing gas wells in the Basin-Fruitland Coal Gas Pool shall have dedicated thereto 320 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 and proration units established by the Division and dedicated thereto.

(6) In accordance with (5) above, the operator shall file a new Form C-102 dedicating 320 acres to the well or shall obtain a non-standard unit approved by the Division. The operator shall also file a new C-104 with the Aztec district office of the Division.

(7) Failure to comply with Paragraphs (5) and (6) above within 60 days of the date of this order shall subject the well to a shut-in order until such requirements have been met.

(8) This case shall be reopened at an examiner hearing in October, 1990 at which time the operators in the subject pool may appear and present evidence and testimony relative to the determination of permanent rules and regulations for the Basin-Fruitland Coal Gas Pool.

(9) 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.

#### VADA-DEVONIAN POOL Lea County, New Mexico

Order No. R-8770, Adopting Temporary Operating Rules for the Vada-Devonian Pool, Lea County, New Mexico, October 26, 1988.

Order No. R-8770-A, May 30, 1990, rescinds the temporary operating rules adopted in Order No. R-8770, October 26, 1988.

Application of Union Pacific Resources Company for Pool Extension and Special Pool Rules, Lea County, New Mexico.

> CASE NO. 9439 Order No. R-8770

#### ORDER OF THE DIVISION

BY THE DIVISION: This cause came on for hearing at 8:15 a.m. on August 17, 1988, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 26th day of October, 1988, 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 Case Nos. 9439 and 9440 were consolidated at the time of the hearing for the purpose of testimony.

(3) By Order No. R-8667 dated June 10, 1988, the Division created and defined the Vada-Devonian Pool with horizontal limits consisting of the SW/4 of Section 26, Township 10 South, Range 33 East, NMPM, Lea County, New Mexico.

(4) The applicant, Union Pacific Resources Company, seeks to extend the horizontal limits of the Vada-Devonian Pool to include the NW/4 of Section 35, Township 10 South, Range 33 East, NMPM, Lea County, New Mexico, and further seeks the promulation of temporary special rules and regulations for said pool, including a provision for 80-acre spacing and proration units, designated well locations, and a poolwide exception to Division Rule No. 111 allowing for directional drilling or well deviations of more than five degrees in any 500-foot interval.

(5) The applicant is the owner and operator of the discovery well for said pool, the State "26" Well No. 1 located 330 feet from the South line and 2310 feet from the West line of said Section 26.

(6) The applicant is also the owner and operator of the State "26" Well No. 2 located 1910 feet from the South line and 1980 feet from the East line (Unit J) of said Section 26, which was spudded on April 21, 1988, was drilled to a depth of 12,953 feet and is currently being sidetracked to an unorthodox subsurface location within a 150-foot radius of a point 1910 feet from the South line and 2580 feet from the East line (Unit J) of said Section 26, (being the subject of companion Case No. 9440).



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**DIL CONSERVATION DIVISION** 

GARREY CARRUTHERS GOVERNOR

FROM:

POST OFFICE BOX 2088 STATE LAND OFFICE BUILD NG SANTA FE, NEW MEXICO 87504 (505) 827-5800

#### MEMORANDUM

ГО:	ALL	OPER.	ATORS

WILLIAM J. LEMAY, DIRECTOR

SUBJECT: RULE 104 C II OF THE GENERAL RULES AND REGULATIONS

DATE: AUGUST 3, 1990

On July 27, 1988, we sent a memorandum to all operators to explain the Division's procedures for ensuring compliance with the above rule in handling applications for additional wells on existing proration units. The procedures are primarily applicable in unprorated gas pools.

The final paragraph of the July 27 memo reads as follows:

"Applications for additional wells on existing proration units will be approved only on the understanding that upon completion of the well the operator shall elect which well will be produced and which will be abandoned. Application to produce both wells will be approved only after notice and hearing and upon compelling evidence that the applicant's correlative rights will be impaired unless both wells are produced."

Additional explanation of the intent of the above paragraph is set out below:

Application to produce both wells continuously and concurrently will be approved only after notice and hearing and upon compelling evidence that the applicant's correlative rights will be impaired unless both wells are produced.

Requests to produce the wells alternately (one well shut-in while the other produces) may be submitted for administrative handling. The request should set out the length of the producing and shut-in cycles for each well (a one month minimum is suggested), the proposed method for ensuring compliance with the proposed producing and shut-in schedules, and the reasons for the request. Notice should be provided to offset operators in the usual manner, allowing a 20-day waiting period. The application should be sent to Santa Fe with a copy to the appropriate District office.

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### **OIL CONSERVATION DIVISION**

GARREY CARRUTHERS GOVERNOR

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

MEMORANDUM

TO: ALL OPERATORS

JIV WILLIAM J. LEMAY, DIRECTOR , FROM:

SUBJECT: RULE 104 C II OF THE GENERAL RULES AND REGULATIONS

DATE: JULY 27, 1988

There has been some confusion about interpretation of the subject rule. In each paragraph of sections (a), (b) and (c) the rule states:

"Unless otherwise provided in special pool rules, each development well for a defined gas pool shall be located on a tract..."

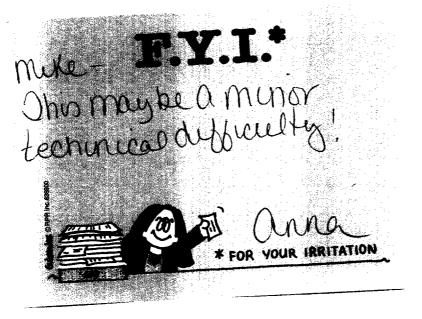
My interpretation of this sentence is that each well is to be located on its own individual specified unit and an additional well is not authorized simply by meeting the set back requirements of the rule.

This interpretation is necessary to prevent waste from the drilling of unnecessary wells and to protect correlative rights of all parties in the pool. Since the prorated pools have special pool rules the subject rules have greater impact on unprorated gas. Unprorated does not mean unregulated. Allowables are not issued in unprorated pools and the only method available to protect correlative rights is the control of well density and locations. Added well density required because of special geological situations can be addressed by special pool rules after notice and hearing.

Applications for additional wells on existing proration units will be approved only on the understanding that upon completion of the well the operator shall elect which well will be produced and which will be abandoned. Application to produce both wells will be approved only after notice and hearing and upon compelling evidence that the applicant's correlative rights will be impaired unless both wells are produced.

dr/

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312.42 SECTION

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ubject well

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS GOVERNOR POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

April 29, 1988

Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499-4289

Attention: Peggy Doak

Administrative Order NSL-2509

Dear Ms. Doak:

Reference is made to your application for a non-standard location for your Howell K Well No. 300 to be located 1990 feet from the South line and 1175 feet from the East line (Unit I) of Section 15, Township 30 North, Range 8 West, NMPM, Wildcat Fruitland Pool, San Juan County, New Mexico. The SE/4 of said Section 15 shall be dedicated to the well.

By authority granted me under the provisions of Rule 104 F(1), the above-described unorthodox location is hereby approved.

Sincerely, WILLIAM J. LOMAY Director WJL/DRC/aq

cc: Oil Conservation Division - Aztec

DUA 1930, ILCOV, NM 38240 DISTRICT II P.O. Drawer DD, Anonia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztoc, NM 87410	REQU	Sa EST F(	nta I OR /	P.O. B Re, New M ALLOWAI	ox 2088 exico 8756 BLE AND	DIVISIO	invi un REDI JET <b>ZATION</b>	DIVISION		nactions m of Page
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Meridian Oil In										
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New Well  Recompletion  Change in Operator  If change of operator give name  and address of previous operator	Oll Casinghese	Charge in	Dry	· ·						
IL DESCRIPTION OF WELL	and the second		1							
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Section 15 Townshi	<u>30N</u>		Ran	8	W . N	MPM,	<u>San</u> J	uan		County
III. DESIGNATION OF TRAN				ND NATU						
Name of Authorized Transporter of Oil Meridian Oil II		or Conden	snip		PO Box	e address to wh			orm is to be se IM87499	i
Name of Authorized Transporter of Casing	thead Gas		or D	ny Gas 🚺	Address (Gi	re oddress to wh	ich spproved	copy of this fo	orm is to be sa	w)
Meridian () ] ] If well produces oil or liquids,		Sec.	Twp	Rge	PO Box		Farmi		IM 87499	2
give location of tanks.	<u>i     i</u>	_15	3	DN 8W						]
If this production is commingled with that i IV. COMPLETION DATA	tom any othe	r lease or ;	pool,	give comming	ling order num					
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V. TEST DATA AND REQUES OIL WELL (Test must be after n					t be equal to o	r exceed top allo	mable for this	i depth or be f	for full 24 hour	<b>z.</b> )
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i i i i i i i i i i i i i i i i i i i	UN - DOR.				Water - Dou	AUG	3 1990			
GAS WELL					C	DIL CO	N. DI	1		
Actual Prod. Test - MCF/D	Length of T				Bbis. Conde	ante/Macits	t. 3	Gravity of C	Condensals	
Testing Method (pilot, back pr.)	Tubing Pres	sure (Shut	l-in)		Casing Press	nure (Shut-in)		Choke Size		
VI. OPERATOR CERTIFIC I hereby certify that the rules and regul Division have been complied with and is true and complets to the best of my l	ations of the information	Dil Conser mation give	vatio	1		OIL CON				N
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Signative Leslie Kahwajy-	Prod.	Serv.		visor	By_	<u>بر المجام</u>	TY ON R	GAS INSPEC	TOR, DIST.	<del>د</del> ي
	505.) 3	26-970			Title	)			1	
			epbon	e No.			•			

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 Kequest for anowable for newly difficult deepened went must be accomplated by moundor of deviation estimation and 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 filled for each pool in multiply completed wells.

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Form 3160-5 (November 1983) (Förmeriy 9-331)	UNITED STATES DEPARTMENT OF THE INTER BUREAU OF LAND MANAGEMEN		Excircs August 31, 1985 5. LEASE DESIGNATION AND SEELAL NO. SF - 078578A
SUN	IDRY NOTICES AND REPORTS		6. IF INDIAN, ALLOTTEN OR TRIBE NAME
1. OIL GAS WELL WELL			7. UNTE AGREMENT NAME
Z. NAME OF OPERATOR			8. PARM OR LEASE NAME
Meridian Oil 3. ADDESSE OF OFTENATO			Howell K 9. Well BC.
P.O. Box 4	289, Farmington, NM 874		300
4. LOCATION OF WELL II See also space 17 bei	Report location clearly and in accordance with any	State requirements."	10. FIELD AND POOL, OR WILDCAT
At surface	1990'S, 1175'E		Basin Fruitland Coa 11. 196. T. L. W. OR MAR. AFD SEC.15, T30N, R8W NMPM
14. PERMIT NO.	15. ELEVATIONS (Show whether D	F. ST. CR. (4.)	12. COUNTY OF PARIER 13. STATE
	6437'GL		San Juan NM
TEST WATER SECT-0	Check Appropriate Box To Indicate N NOTICE OF INTENTION TO: PP CLL OF ALTER CASING	· · ·	BAT LEPOLT OF :
PRACTURE TREAT		PRACTURE TREATMENT	
SHOOT OR ACIDIZE	ABANDON*	SECOTING OF ACIDIEING	ABANDON MENT*
REPAIR WELL	CHANGE PLANS	Other)	······································
(Other) Revi:	sion X		of multiple completion on Well etion Report and Log form.)
proposed work. [] nent to this work.]	s a copy of the C102 show FEB 1 4 1923 CIL CONSERVATION DIVISI SAMTA FE	ring the revised po	i depths for all markers and somes perti-
		<b>x</b> . <sup>1</sup>	

•

18. I hereby service that the foregoing is true and correct signed	TITLE <u>Regulatory</u> Af	fairs DATE 12-22-00
(This space for Federal or State office use)		ACOSATED FUR REPORT
APPROVED BY CONDITIONS OF APPROVAL, IF ANT :	TITLE	
•	See Instructions on Reverse Side NiviOCC	HAMMINGION RESCONDE MALIN BY

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Title to U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of th United States any faise, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF NEW MEXICO ENERGY MID MINERALS DEPARTMENT

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#### OIL CONSERVATION DIVIS' N ON P. O. BOX 2008 SANTA FE, NEW MEXICO 87501

Fere C-102 Revised 10-1-

MERIDIAN OI			Long .	derive of the Section.		Well No.
UDITIDIUU OI	L, INC.		HOWELL K	(SF-078578	A)	
		ewnehip	Renge	County		
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und Level Eler.	Producing Format		Peoi	• •	Dedi	
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interest and r	oyalty).		well, outline each			
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🗆 Y 🚥 🗖	No If answ	er is "yes!" tvn	e of coasolidation			
	,	/				
If answer is "	'no," list the own	ters and tract de	escriptions which	have actually bee	a consolidated.	(Use reverse
	cessery.)					
	•	to the well until	all interests have	been consolide te	d (by communit	tization. naiti
			dard unit, eliminat			
			OID CATHODI		.' nee need choo	
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· · •	14	8	1		Drilling	g Clerk
		N	1	<u> </u>	Company	
	j∎ I	N	•			
			Į.			n Oil Inc
			i I		Meridian	
					Meridian	
	SE	c.			Meridian	-22-87
		<u>с.</u>	-		Meridian	
	SE	<u>с.</u>			Meridian	-22-87 WEAL
	SE	<u>c.</u>	             		Meridian Dene / 2 I fante seturat	-22-87 WEAL
	SE	.c.		1175'		- 22 - PP
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	SE	<u>c.</u>		1175'	Meridian Dese / 2 / C L.	- 2 2 - P
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	SE SE			1175'	Meridian Dete 2 1 Janie 2 1 Janie 2	- 2 2 - PT
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STATE OF NEW MEX ENERGY AND MINERALS DEF DISTRIBUTION CANTA FE FILE U.B.O.B. LAND OFFICE TRANSPORTER OIL GAS OPERATOR		SANT	A FE. NE	OX 2088	CO 8750		Form C-104 Revised 10-01-78 Format 05-01-83 Page 1
PROMATION OFFICE		ORIZATION	I TO TRAN	SPORT OIL	AND NAT	URAL GAS	
Operander Meridian Oil	Inc. Oil Of	در آن به دوم محدودی - با هم در است در - را		2.M	•		
Address							
Reason(s) for filing (Check p New Well Recompletion Change in Ownership		le in Transpor III Casinghead Ga	<u> </u>	Dry Gas Condensate	Oiher (Plea	<i>εε εχρίαι</i> κ)	
If change of ownership give and address of previous ow			<u></u>	<u> </u>			
II. DESCRIPTION OF W	ELL AND LEASE				•		
Lease Name Howell K	weii 300	No. Pool Nam Unde	es.Frui		Coal	Kind of Lease States Federal or)Fee	SF-078578A
Location Unit LetterI	. 1990 Feet	From The	South_u	/ ne and	/ 775	Feet From TheE	ast
Line of Section 15	Township	30N	Bange	<u>8W</u>	. <u>NMP</u>	мSan_Ju	an Cour
III. DESIGNATION OF	TRANSPORTER C	DE OIL ANT	) NATURA	L GAS			
Name of Authorized Traispos	ter of Cil	or Condensate	<u> </u>	Asaress	Give address	to which approved copy of	this form is to be sent)
Meridian Oil	Inc.				PO Box	c 4289. Farmin	gton. NM 8749
Name of Authorized Transpor		or Dr	Y Gas 😨	Address	(Give address	( 4289, Farmin	this form is to be sent?
El Paso Natu	ral Gas Com	pany			PO Boy	c 4990, Farmin	gton, NM 874
If well produces oil or liquid give location of tanks.	Unit -	Sec. 17wp	•	ls gas ac	tually connec		· · · · · · · · · · · · · · · · · · ·

If this production is commingled with that from any other lesse or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

#### VI. CERTIFICATE OF COMPLIANCE

٤

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

Regulatory Affairs (Tule) September 15, 1988
(Signature) • Regulatory Affairs
(Tule) September 15, 1988
(Dete)

OIL CONSERVATION DIVISION SEP 29 1988					
BY	Buil) Chang				
TITLE	SUPERVISION DISTRICT # 3				

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

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

All sections of this form must be filled out completely for all sble 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; completed wells.

#### IV. COMPLETION DATA

.

ate Compl. Ready to Prod. 06-23-88 ame of Producing Formation Fruitland Coal	Total Depth 3294' Top Oll/Gas Pay 0 open hole	P.B.T.D. Tubing Depth
		3290'
on		Depth Casing Shoe
TUBING, CASING, AND	D CEMENTING RECORD	
CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
9 5/8"	503'	1021 cu ft
7"	3115'	1049 cu ft
2 3/8"	32901	
	TUBING, CASING, ANI CASING & TUBING SIZE 9 5/8" 7"	TUBING, CASING, AND CEMENTING RECORDCASING & TUBING SIZEDEPTH SET95/8"603"7"3115"

.

¥

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 allo OIL WELL able for this depth or be for full 24 houre;

Date First New Oil Run To Tanza	Date of Teet	Producing Method (Flow, pump, gas lift	i, elc.j
Longth of Test	Tubing Pressure	Casing Pressure	Choze Size
Actual Prod. During Test	011 - Bbie.	Water - Bbis.	Gas • MCF

#### GAS WELL

.

Actual Prod. Test-MCF/D	Length of Test	Bbis. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure ( shut-in )	Casing Pressure (Sbut-18)	Choke Size
backpressure	018	1450	

Form 3160-4 (November 1983)			STATES	SUBMIT	IN DUPLICATE	<ul> <li>Budge</li> </ul>	approved. et Bureau No. 1004-0137
(former'y 9-330)			THE IN	TERIOR	(See othe structions	s uu-	es August 31, 1985
		_	D MANAGEME		reverse si	SF-07	ISIGNATION AND SERIAL NO. 78578A
WELL CON	APLETION C	OR RECON	APLETION	REPORT A	ND LOG *	6. (F INDIAN	ALLOTTEE OR TRIBE NAME
14. TYPE OF WELL	i Off. WELL	WELL X	DRY D	Other	·····	7. UNIT AGR	EEMENT NAME
	LETION: WORK PEEP- OVER EN		DIFF:	Other			
2. NAME OF OPERATO				í AR		Howel	
Meridian	oil Inc.			يە دەر	- 1999년 1999년 (종 <u>신</u> 1일) -	S. WELL NO.	
3. ADDRESS OF OPERA				····	· · · · · · · ·	300	
PO BOX 4	289, Farm				mente) •		ND POOL OF WILDCAT S.Fruitland Coal
At surface		, 1 <b>1</b> 75'E					R., M., OR BLOCK AND SURVEY
At top prod. inter	vai reported below	, {			ат леца, е — 1 14 1 14 1 14	11. I	L5,T-30-N,R-8-W
At total depth					na n		NMPM
			14. PERMIT NO.	D	TE ISSUED	12. COUNTY PARISH San J	or 13. state Juan NM
5. DATE SPUDDED	16. DATE T.D. REAC	THED 17. DATE	COMPL. (Ready t	o prod.) 18.	ELEVATIONS (DP. R		19. ELEV. CASINGHEAD
6-11-88	06-14-88		23-88	,	6437'GL		6437'GL
0. TOTAL DEPTH, MD & 3294 1	TVD 21. PLUG, 1	BACK T.D., MD & T	<b>VD</b> 22. IF MULT HOW M	TIPLE COMPL.	23. INTERVA DRILLED		LS CABLE TOOLS
4. PRODUCING INTERV	AL(S), OF THIS CO	MILETION-TOP.	BOTTOM, NAME ()	MD AND TVD)*		yes	25. WAS DIRECTIONAL
open hol	e complet	ion					SUBVET MADE
8. TTPE ELECTRIC AN	D OTHER LOGS RUN	<u> </u>					27. WAS WELL COEBD
							no
۹.			IG RECORD (Reg				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET	(MD) HO	I.E SIZE		ING RECORD	AMOUNT PULLED
9 5/8"	<u>36_0#_</u> _	603			<u>1021 cu.f</u>		
7 ''	20_0#_		8	3/4"	<u>1049 cu.f</u>	t	
9.	LI	NER RECORD			30.	TUBING RECO	ORD
\$1ZB	TOP (ND) B	OTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (M	(D) PACKER SET (MD)
<u>   open  h</u> o1	<u>e complet</u>	ion	<u> </u>		23/8'	3290'	
1. PERFORATION RECO	D (Interval, size	and number)		32.	ACID. SHOT. FR	ACTURE. CEMEN	T SQUEEZE, ETC.
open hol	e complet	ion		DEPTH INTE	RVAL (MD)	AMOUNT AND KIN	ID OF MATERIAL USED
opon							
							<u></u>
					[		
3.•			PRO	DUCTION			
ATS FIRST PRODUCTIO	N PRODUCT	ION METHOD (F	owing, gas lift, p	umping—eize an	d type of pump)		STATUS (Producing or it-in)
						<u>d when co</u>	onnected
ATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBL.	GAS-MCF.	WATER-88L	L. GAS-OIL BATIO
LOW. TUBING PRIME.	CASING PRESSURE	CALCULATED	011	GAS-M	EF. WAT	ERHBL.	OIL GRAVITY-API (CORR.)
SI 618	ST 1450	24-HOUR RATE		1			
. DISPOSITION OF GAS	(Sold, used for fu	el, vented, etc.)				TEST WITNE	SSED BT
to be so 5. LINT OF ATTACHM				<u></u>			CEPTED FOR A
6. I hereby certify t	at the forentias	and attached inf	ormation is com	lete and correct	t as determined fi		
	Kr. Kb	deline		Regulato	ry Affain	:s	9-15-88
SIGNED <u>2</u>			TITINM	DEC		DATI	۷
	*(See li	nstructions an	d Spaces for A	Additional Do	ata on Reverse	Side) FAR	
fitle 18 U.S.C. Sec	tion 1001, makes	s it a crime fo	r any person kn	owingly and w	ilfully to make	to any departme	ent or agency of the

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department, or agendy of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

	JE EPTH					·· · · ·	
aor.	MEAS. DEPTH VERT. DEPTH			2110 2300 2990			 
	NAME			Ojo Alamo Kirtland Fruitland			 
_		······	.ss			- <u> </u>	 
DESCRIPTION, CONTENTS, ETC.		ss. White cr-grn s.	Gry sh interbedded w/tight gry fine-grn	Gry carb sh,scattered coals, coals and gry, tight, fine-grn ss.		<b>,</b>	· · ·
BOTTOM		2300	2990	3294'			 <u>, , , , , , , , , , , , , , , , , , , </u>
TOP		2110	2300	2990	· · · · · · · · · · · · · · · · · · ·		
FORMATION		Ojo Alamo	Kirtland	Fruitland			 

..

Form 3160-5 (November 1983) (Formerly 9-331)	UNITED STATES DEPARTMENT OF THE IN		Expires August 31, 1985 5. LEASE DESIGNATION AND SESIAL NO.
(Do not use this to	BUREAU OF LAND MANAGI	RTS ON WELLS	SF-078578A 6. IP INDIAN, ALLOTTER OR TRINS NAME
	1915		7. UNIT AGREEMENT NAME
2. NAME OF OFSEATOR	X OTHER		8. FARM OR LEASE NAME
	Meridian Oil Inc.	010T - 5 1938 J	Howell K
3. ADDESSE OF OPERATOR			9. WELL RO.
4. LOCATION OF WELL (Rep See also space 17 below.	Post Office Box 4289 ort location clearly and in accordance w 1990'S, 1175'E	, Farmington, NM 87499 ith any State requirements.*	300 10. FIELD AND FOOL, OR WILFCAT Undes.Fruitland Coal
			11. aBC, T. A. M. OB BLK. AND SURVEY OF ABAA Sec. 15, T-30-N, R-08-W
14. PERMIT NO.	15. ELEVATIONS (Show wh	ether DF. ST. CR. etc.)	12. COUNTY OF PARIARI 13. STATE
		6437'GL	San Juan NM
16.	Check Appropriate Box To India	cate Nature of Notice, Report, o	r Other Data
		¬	
TEST WATER SECT-OFF FRACTURE TREAT	PELL OR ALTER CASING	PRACTURE TREATMENT	
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	
REPAIR WELL	CHANGE PLANS	(Other)	Running Casing
(Other)		Completion or Record	its of multiple completion on Well apietion Report and Log form. : ies, including estimated date of starting any
proposed work. If w nent to this work.)*	TD 3115'. Ran 74 3102' set @ 3115'	jts. 7", 20.0#, K-5 . Cemented with 475	5 intermediate casing, sks. Class "B" 65/35
	perlite (932 cu.f	t.) followed by 100 (117 cu.ft.). WOC 1	and 1/2 cu.ft./sack sks. Class "B" with 2% 2 hours. Held 1200#/30
	. ·		
18. I hereby certify that the	- 11 S A	Regulatory Affairs	09-15-88
(This space for Federal			DATE09-15-0
APPROVED BY	TITLE	B	
CONDITIONS OF AFFE			SEPL
Turie 18 If S.C. Section 1		ections on Reverse Side فعند بل معنی	FARMING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the. United States any false, fictutious or fraudulent statements or representations as to any matter within its jurisdiction.

	UNITED STATES ARTMENT OF THE INTE UREAU OF LAND MANAGEME		rorm approved Budget Bureau Expires Augus 5. LEASS DEBLEMATION SF-078578	No. 1004-0135 t 31, 1985 TAND SERIAL NO.
	NOTICES AND REPORTS r proposals to drill or to deepen or plu rPLICATION FOR PERMIT-" for suc		6. IF INDIAN, ALLOTTE	S OR TRIBE NAME
	<u></u>		7. UNIT AGREEMENT N	AM8
WELL WELL X OF		/	8. PARM OR LEASE NA.	
	idian Oil Inc.	· .	Howell K	~-
3. ADDREES OF OPERATOR			9. WELL NO.	
Pos	st Office Box 4289, E Cation clearly and in accordance with a	Farmington, NM 8749	300	
See also space 17 below.)		any State requirements."		
199	0'S, 1175'E		Undes.Fr.	<u>uitland C</u> oa MAK.AMP
		E M GOD	SURVEY OR AREA	
			N.M.P.M.	- <b>JU-N</b> 7R-09-
4. PERMIT NO.	15. ELEVATIONS (Show whether	DF, BT, GR, etc.)	12. COUNTY OR PARISE	I 13. STATS
		6437'GL	San Juan	I NM
e. Che	ck Appropriate Box To Indicate	Nature of Notice, Report, or	Other Data	
NOTICE OF	F INTENTION TO:	8736	QUENT REPORT OF:	
TEST WATER BEUT-OFF	PELL OR ALTER CASING	WATER SHUT-OFF	EBPAIRING	WELL
FRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING C	ABING
SHOOT OB ACIDIZE	ABANDON*	SECOTING OR ACIDIZING	ABANDONME	*T*
(Other)	CHANGE PLANS	(Other)	Spud Well	on Well
7 DESCRIBE PROPOSED OR COMPLET	TED OPERATIONS (Clearly state all pertin directionally drilled, give subsurface k	Dent detaily and give pertinent det	apletion Report and Log fo es, including estimated dat ical depths for all marker	
	Cemented with 400 s 3% calcium chloride WOC 12 hrs. Tested	e (1021 cu.ft.).	Circulated to	
8. I hereby certify that the fore	foing is true and correct			
SIGNED SEGAL	tak TITLE_	Drilling Clerk	DATE	06-13-88
(This space for Federal or St	ate office use)		p	·····
APPROVED BY CONDITIONS OF APPROVAL	. IF ANT:		DATE	
	*See Instructio	ons on Reverse Side		

Title 18 U.S.C. Section 1001, makes it a crime for any person kindly prand willfully to make to any department or agency of the United States any faise, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-3 (November 1983) (termeriy 9-331C)		ED STATES		SUBMIT IN ' (Other instr reverse	uctions on	Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985
		LAND MANAG		DI TEUEN	/ED	5. LEASE DESIGNATION AND SERIAL NO. SF-078578A
APPI ICATION	FOR PERMIT 1				PAQUE	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
14. TTPE OF WORK		and the second sec		MARZU P	412:12	
DRI		DEEPEN	J FAR	PLUG BA	CK. Ho	7. UNIT AGREEMENT NAME
	SLL OTHER		SINGUS ZONS	MINGTON RESOL	THE AREA	8. PARM OR LEASE NAME
2. NAME OF OPERATOR						Howell K
Meridian	UII Inc.					9. WELL NO. 300
	89, Farmingto	on, NM 87	7499			10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Re	port location clearly and	in accordance with	h any State	requirements.*)		Undes.Fruitland
At "1990's, 1	175 E					11. EBC., T., B., M., OB BLE.
At proposed prod. sone	•					Sec.15, T-30-N, R- 8-W
4. DISTANCE IN MILES A	ND DIRBCTION FROM NEAR	BET TOWN OR POST	0 <b>FFICB*</b>			12. COUNTY OR PARISE   13. STATE
8 miles	from Navajo I	Dam				San Juan NM
5. DISTANCE FROM PROFUN LOCATION TO NEAREST	1170			ACRES IN LEASE	17. NO. 0 TO TE	DF ACESS ABSIGNED
PROPERTY OR LEASE LI (Also to Bearest drig.	. unit line, if any)	· · · · · · · · · · · · · · · · · · ·	160			
13. DISTANCE FROM PROFO TO NEAREST WELL, DR OR APPLIED FOR, ON THE	ULLING, COMPLETER, ()		19. PROPOS	3068'	20. ROTA	ROTARY
	ther DF. BT. GR. etc.)					22. APPROS. DATE WORK WILL START*
6	URIECT TO COMPLIANC	E WITH ATTACHE	Ð			
3. "	GENERAL REQUIREMER	SPOSED CASIN	G AND CE	MENTING PROGI	RAM DROCEDU	tion is subject to technical and mai review pursuant to 43 CFP 3188
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER PO		SETTING DEPTH		pen pursuantots 48-OFA 31.66.4.
	9 5/8	32.3#	·	500	1	f.circulated
<u> </u>	5 1/2 line	20.0# er 23.0#		3115'		f to cover Ojo Alamo
A 3000 ps blind and This gas		) psi test ll be use	doub] d for	le gate pr blow out	preven	r equipped with tion on this well.
					×	
one. If proposal is to d	Irill or deepen directional					uctive sone and proposed new productive i and true vertical depths. Give blowout
signen Legg	y Doal	/	LB	Drilling	Clerk	04-19-88
(This space for Feder	al or State office use)					
PERMIT NO.	<u></u>	·····	AP <b>P</b> I	OVAL DATE		ACAMAN
APPROVED BY		TITI	LB			
CONDITIONS OF APPEDVA		*See Instruc	NM	0CC	ሐብ	Li gilon

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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF NEW MEXICO

#### OIL CONSERVATION DIVISION P. 0. BOX 2008 SANTA FE. NEW MEXICO 87501

ENERGY MO MINERALS DEPARTMENT

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Form C-102 Revised 10-1-

	-		Lesses .				Well	Ne.
MERIDIAN OIL	and the second		HOWELL	K (SF-		A)		300
I Sort	15	30-N	Renge	3-W	SAN J	ITAN		
Husi Peotoge Location	•	<u></u>			LOUN O			
1990 tee	t from the SOUTH	line and	1175	tee	t from the	EAST	1150	
wind Level Clar.	Producing Formation		Peol		• •		Dedicated A	C100941
6437	Fruitlar	nd	Undes	ignate	<u>d</u>		160	152.4
interest and roy		•						
	e lease of differen mitization, unitizat	tion, force-pool	ing. etc?		have the is	iterests of	all owners	been con
Yes 🗆	No If answer i	is "yes," type	of cossolidati	08 80				
If ensurer is "a	o," list the owners	and tract des	crintians whic	h have ac	tually hear	consolid	and (Ten .	avaraa a
this form if nec								
No allowable wi	ill be assigned to th	he well until al	l interests ha	ve been c	onsolidate	d (by com	munitizatio	n. unitiz
forced-pooling, a	or otherwise) or unti	il a non-standa	rd unit, elimin	ating suc	interests	, has been	approved b	y the Div
	HODOX LOCATI							
	1		4				CERTIFICA	TION -
	1							
			ĺ			l hereby (	artify that the	, in <del>format</del> ie
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	•	ł					r knowledge a	nd heiiet.
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	1			•		Lea	ul.	Joah
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يني ر <b>ي</b> ح	   +						4	Joak
0 20 21 21 21 21 21 21 21 21 21 21 21 21 21	   + 9 4	· • • • •				Pecition	ling Clo	loak erk
VED ROOM HI2: 43	   + 9 4 1	·				Pouton Dril Company	ling Clo	
ELVED NIL ROOM PHI2: 43 SOUNCE AREA		· • • • • •		••••••••••••••••••••••••••••••••••••••		Pouton Dril Company	ling Clo dian Oi	
ECEIVED MAIL ROOM 20 PH 12: 43 RESOUNCE AREA						Dril Dril Compay Meri	dian Oi	l Inc.
M PAIL ROOM PR 20 PH 12: 43 STON. RESOUNCE AREA	 			••••••••••••••••••••••••••••••••••••••		Dril Dril Compay Meri	dian Oi 4-19	l Inc.
LU. M. HAIL ROOM APR 20 PH 12: 43 WOTON RESOURCE AREA	 					Pession Dril Company Meric Date	dian Oi 4-19	1 Inc.
EL M HAIL ROOM 88 APR 20 PH I2: 43 ARMINGTON, RESOURCE AREA	 					Pession Dril Company Meric Date	dian Oi	l Inc.
EL MECEIVED BB APR 20 PH I2: 43 FARMINGTON RESOURCE AREA	 					Pession Dril Company Meric Date	dian Oi 4-19	1 Inc.
EL M HAIL ROOM BB APR 20 PH 12: 43 FARMINGTON RESOURCE AREA	 			1175		Pession Dril Company Meric Date	dian Oi 4-19	1 Inc.
EN MERCEIVED BAR 20 PH 12: 43 FARMINGTON RESOUNCE AREA	SEC.			1175		Pession Dril Company Meric Date	dian Oi 4-19	1 Inc.
EL M MAIL ROOM 88 APR 20 PH 12: 43 FARMINGTON RESOURCE AREA	SEC.			1175		Pecanica Dril Company Merid Date	dian Oi H-19 C L. WEA SPEC. SPEC. Margine J. SPEC. Margine J. SPEC. Margine J. SPEC. Margine J. SPEC. Margine J. Margine J.	1 Inc.
EL M HAIL ROOM 88 APR 20 PH 12: 43 FARMINGTON RESOURCE AREA	SEC.			1175		Pecanica Dril Company Merid Date	dian Oi H-19 C L. WEA SPEC. SPEC. Margine J. SPEC. Margine J. SPEC. Margine J. SPEC. Margine J. SPEC. Margine J. Margine J.	1 Inc.
EL M HAIL ROOM 88 APR 20 PH 12: 43 FARMINGTON RESOURCE AREA	SEC.			1175		Dril Dril Meri	dian Oi 4 - 19 C L. WFA SP60 Profession Profession	1 Inc.
EL M HAIL ROOM 88 APR 20 PH 12: 43 FARMINGTON RESOURCE AREA	SEC.			1175		Dril Dril Merid	dian Oi 4 - 19 C L. WEA SP60 SP60 NOFESSION 14, 19	1 Inc.
EL M HAIL ROOM 88 APR 20 PH 12: 43 FARMINGTON RESOURCE AREA	SEC.			1175		Peestuse Dril Merid Dete	dian Oi 4 - 19 C L. WEA SP60 SP60 NOFESSION 14, 19	1 Inc.
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EV. M. MAIL ROOM 88 APR 20 PH 12: 4,3 FARMINGTON, RESOURCE AREA	SEC.			1175		Peestuse Dril Meri Date Date March MARCH Date Survey ISAAC	dian Oi 4 - 19 C L. WFA SP60 SP60 14, 19 L. WEA releasioned E	1 Inc.