STATE OF NEW MEXICO



5

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE. NEW MEXICO 87505 (505) 827-7131

July 31, 1997

Amoco Production Company San Juan Business Unit P. O. Box 800 Denver, Colorado 80201 Attention: Pamela W. Staley

Administrative Order DD-196 and AMENDED Administrative Order NSL-3068

Dear Ms. Staley:

Reference is made to the following: (i) your application to William J. LeMay, Division Director, dated September 10, 1996; (ii) your letter to Mr. Frank Chaves, Supervisor of the Division's District office in Aztec dated September 12, 1996; (iii) the Division's initial response to said applications by letter from Mr. Michael E. Stogner dated November 25, 1996; (iv) your response by letter dated December 2, 1996; and, (v) to the records of the Division in Santa Fe: all of which concern Amoco Production Company's request to recomplete the existing Lodewick Well No. 1 (API No. 30-045-06463) by intentionally deviating from the vertical wellbore with an intentional azimuth in order to avoid formation damage to both the Pictured Cliffs and Basin-Fruitland Coal Gas intervals generated from earlier completion techniques and methods within the SE/4 of Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

The Division Director Finds That:

- The application has been duly filed under the provisions of Rules 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division") revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11274 on June 13, 1995;
- (2) The Lodewick Well No. 1, located 990 feet from the South and East lines (Unit P) of said Section 18, was originally drilled in 1951, completed in the Fulcher Kutz-Pictured Cliffs Pool, and had dedicated thereon a standard 160-acre gas spacing and proration unit for said pool comprising the SE/4 of said Section 18;

- (3) By Division Administrative Order NSL-3068, dated October 23, 1991, Amoco was authorized to abandon the Pictured Cliffs interval in the Lodewick Well No. 1 and recomplete up-hole into the Basin-Fruitland Coal (Gas) Pool whereby the 321.08 acres comprising Lots 3 and 4, the E/2 SW/4, and the SE/4 (S/2 equivalent) of said Section 18 was to have been dedicated to said well in order to form a standard "lay-down" gas spacing and proration unit for coal gas production. However, in September, 1992 when the well was actually recompleted the E/2 of said Section 18, being a standard "stand-up" 320-acre gas spacing and proration unit was therein dedicated instead; moreover, said Division Order No. R-3068 was never amended to reflect this acreage rededication;
- (4) The Fulcher Kutz-Pictured Cliffs Pool is subject to the statewide rules and regulations for shallow gas wells above the Dakota formation in Northwest New Mexico, as promulgated by Rule 104.C(3)(a), which provides for 160-acre gas spacing and proration units, or drilling units, and requires that wells be located no closer than 790 feet to the outer boundary of a standard 160-acre unit nor closer than 130 feet to any quarter-quarter section or subdivision inner boundary thereon;
- (5) The Basin-Fruitland Coal (Gas) Pool is subject to the "Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool", as promulgated by Division Order No. R-8768, as amended, which includes provisions for 320-acre gas spacing and proration units and wells to be located within either the NE/4 or SW/4 of the section and not closer than 790 feet from any outer boundary of the spacing unit nor closer than 130 feet from any quarter section line nor closer than 10 feet from any quarter-quarter section line or subdivision inner boundary;
- (6) The applicant/operator proposes to kick-off from vertical at a depth of approximately 1,600 feet by milling a window in the existing 5-1/2 inch production casing string, directionally drill in a northwesterly direction in such a manner as to penetrate the Basin-Fruitland Coal (Gas) Pool and bottom said well within the Fulcher Kutz-Pictured Cliffs Pool;
- (7) To satisfy the provisions of both rules and regulations governing both the Pictured Cliffs and Fruitland Coal Gas intervals the applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 of said Section 18 that is no closer than 790 feet to any quarter section line;
- (8) Production from both intervals are to be downhole commingled under the authority of Division Administrative Order DHC-1379, dated October 17, 1996;

- (9) At this time Division Administrative Order NSL-3068 should be amended to reflect the 320 acres comprising the E/2 of said Section 18 as the dedicated acreage for Basin-Fruitland coal gas production from this well; and,
- (10) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

ę.,

(1) The applicant, Amoco Production Company, is hereby authorized to recomplete the existing Lodewick Well No. 1 (API No. 30-045-06463), located 990 feet from the South and East lines (Unit P) of said Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico, by milling a window in the existing 5-1/2 inch production casing string at a depth of approximately 1,600 feet, kick-off from vertical, and directionally drill in a northwesterly direction in such a manner as to (i) penetrate the Basin-Fruitland Coal (Gas) Pool; and, (ii) bottom said well within the Fulcher Kutz-Pictured Cliffs Pool: within an applicable drilling window or "producing area" which includes an area within the SE/4 of said Section 18 that is no closer than 790 feet to any quarter section line;

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

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

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

(3) The existing standard 320 acre gas spacing and proration unit in the Basin-Fruitland Coal (Gas) Pool comprising the E/2 of said Section 18 and the SE/4 of said Section 18 being a standard 160-acre gas spacing and proration unit for the Fulcher-Kutz Pictured Cliffs Pool are to be dedicated to said well.

(4) Division Administrative Order NSL-3068, dated October 23, 1991, shall be amended to show the above-described 320-acre stand-up gas spacing and proration unit comprising the E/2 of said Section 18 as the dedicated acreage for the Basin-Fruitland Coal gas production from the Lodewick Well No. 1. This change to said administrative order shall be made retroactive as of October 23, 1991.

(5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F.

(6) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

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

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LÉMAY Director

SEAL

WJL/MES/kv

cc: Oil Conservation Division - Aztec ' U. S. Bureau of Land Management - Farmington File: NSL-3068 DD-1379

(4) Division Administrative Order NSL-3068, dated October 23, 1991, shall be amended to show the above-described 320-acre stand-up gas spacing and proration unit comprising the E/2 of said Section 18 as the dedicated acreage for the Basin-Fruitland Coal gas production from the Lodewick Well No. 1. This change to said administrative order shall be made retroactive as of October 23, 1991.

(5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F.

(6) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

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

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LÉMAY Director

SEAL

WJL/MES/kv

cc: Oil Conservation Division - Aztec U. S. Bureau of Land Management - Farmington File: NSL-3068 DHC-1379

DD-AMO

Rue: 9-19-96 Susp: 10-9-96 Released: 7-31-97

July 31, 1997

Amoco Production Company Southern Rockies Business Unit San Juan P. O. Box 800 Denver, Colorado 80201

Attention: Pamela W. Staley

96 Administrative Order DD-**** and AMENDED Administrative Order NSL-3068

Dear Ms. Staley:

Reference is made to the following: (i) your application to William J. LeMay, Division Director, dated September 10, 1996; (ii) your letter to Mr. Frank Chaves, Supervisor of the Division's District office in Aztec dated September 12, 1996; (iii) the Division's initial response to said applications by letter from Mr. Michael E. Stogner dated November 25, 1996; (iv) your response by letter dated December 2, 1996; and, (v) to the records of the Division in Santa Fe: all of which concern Amoco Production Company's request to recomplete the existing Lodewick Well No. 1 (API No. 30-045-06463) by intentionally deviating from the vertical wellbore with an intentional azimuth in order to avoid formation damage to both the Pictured Cliffs and Basin-Fruitland Coal Gas intervals generated from earlier completion techniques and methods within the SE/4 of Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of **Rules 111.D** and **E** of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995;
- (2) The Lodewick Well No. 1, located 990 feet from the South and East lines (Unit P) of said Section 18, was originally drilled in 1951, completed in the Fulcher Kutz-Pictured Cliffs Pool, and had dedicated thereon a standard 160-acre gas spacing and proration unit for said pool comprising the SE/4 of said Section 18;

₹. ►

(3) By Division Administrative Order NSL-3068, dated October 23, 1991, Amoco was authorized to abandon the Pictured Cliffs interval in the Lodewick Well No. 1 and recomplete up-hole into the Basin-Fruitland Coal (Gas) Pool whereby the 321.08 acres comprising Lots 3 and 4, the E/2 SW/4, and the SE/4 (S/2 equivalent) of said Section 18 was to have been dedicated to said well in order to form a standard "lay-down" gas spacing and proration unit for coal gas production. However, in September, 1992 when the well was actually recompleted the E/2 of said Section 18, being a standard "stand-up" 320-acre gas spacing and proration unit was therein dedicated instead; moreover, said Division Order No. R-3068 was never amended to reflect this acreage rededication;

٠.,

- (4) The Fulcher Kutz-Pictured Cliffs Pool is subject to the statewide rules and regulations for shallow gas wells above the Dakota formation in Northwest New Mexico, as promulgated by Rule 104.C(3)(a), which provides for 160-acre gas spacing and proration units, or drilling units, and requires that wells be located no closer than 790 feet to the outer boundary of a standard 160-acre unit nor closer than 130 feet to any quarter-quarter section or subdivision inner boundary thereon;
- (5) The Basin-Fruitland Coal (Gas) Pool is subject to the "Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool", as promulgated by Division Order No. R-8768, as amended, which includes provisions for 320-acre gas spacing and proration units and wells to be located within either the NE/4 or SW/4 of the section and not closer than 790 feet from any outer boundary of the spacing unit nor closer than 130 feet from any quarter section line nor closer than 10 feet from any quarter-quarter section line or subdivision inner boundary;
- (6) The applicant/operator proposes to kick-off from vertical at a depth of approximately 1,600 feet by milling a window in the existing 5-1/2 inch production casing string, directionally drill in a northwesterly direction in such a manner as to penetrate the Basin-Fruitland Coal (Gas) Pool and bottom said well within the Fulcher Kutz-Pictured Cliffs Pool;
- (7) To satisfy the provisions of both rules and regulations governing both the Pictured Cliffs and Fruitland Coal Gas intervals the applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 of said Section 18 that is no closer than 790 feet to any quarter section line;
- (8) Production from both intervals are to be downhole commingled under the authority of Division Administrative Order DHC-1379, dated October 17, 1996;
- (9) At this time Division Administrative Order NSL-3068 should be amended to reflect the 320 acres comprising the E/2 of said Section 18 as the dedicated acreage for Basin-Fruitland coal gas production from this well; and,
- (10) It appearing the applicant has satisfied all of the appropriate requirements

prescribed in said Rule 111.D and E, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

۰.,

(1) The applicant, Amoco Production Company, is hereby authorized to recomplete the existing Lodewick Well No. 1 (API No. 30-045-06463), located 990 feet from the South and East lines (Unit P) of said Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico, by milling a window in the existing 5-1/2 inch production casing string at a depth of approximately 1,600 feet, kick-off from vertical, and directionally drill in a northwesterly direction in such a manner as to (i) penetrate the Basin-Fruitland Coal (Gas) Pool; and, (ii) bottom said well within the Fulcher Kutz-Pictured Cliffs Pool: within an applicable drilling window or "producing area" which includes an area within the SE/4 of said Section 18 that is no closer than 790 feet to any quarter section line;

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

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

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

(3) The existing standard 320 acre gas spacing and proration unit in the Basin-Fruitland Coal (Gas) Pool comprising the E/2 of said Section 18 and the SE/4 of said Section 18 being a standard 160-acre gas spacing and proration unit for the Fulcher-Kutz Pictured Cliffs Pool are to be dedicated to said well.

(4) Division Administrative Order NSL-3068, dated October 23, 1991, shall be amended to show the above-described 320-acre stand-up gas spacing and proration unit comprising the E/2 of said Section 18 as the dedicated acreage for the Basin-Fruitland Coal gas production from the Lodewick Well No. 1. This change to said administrative order shall be made retroactive as of October 23, 1991.

(5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F.

(6) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

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

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

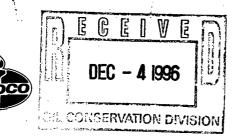
STATE OF NEW MEXICO OIL CONSERVATION DIVISION

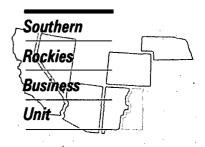
WILLIAM J. LEMAY Director

SEAL

WJL/MES/kv

cc: Oil Conservation Division - Aztec U. S. Bureau of Land Management - Farmington File: NSL-3068 DD-1379





December 2, 1996

Mr. Michael E. Stogner Chief Hearing Officer/Engineer New Mexico Oil Conservation Division 2040 S. Pacheco Street P. O. Box 6429 Santa Fe, NM 87505

via Federal Express

Application For Deviated Wellbore - Rule 111.C. Lodewick Well #1 Unit P Section 18-T27N-R9W Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools San Juan <u>County, New Mexico</u>

Referencing your letter dated November 25, 1996 regarding our application for a deviated wellbore and a continuation of NSL-3068, I am forwarding the information which you requested.

(i) The depth of the kick-off window is planned at a depth of 1600 feet. We had originally planned to kick off at 1500 feet, however the Aztec district asked us to kick off deeper to make sure we were out of the Ojo Alamo formation and into the Kirtland Shale before cutting our window.

(ii) Downhole commingling approval was granted on October 17, 1996 under Division Administrative Order DHC-1379.

(iii) Amoco did apply for and receive Division Administrative Order NSL-3068 for the S/2 of section 18 on October 23, 1991. This was almost one year prior to the drilling of the well and a C-104 had yet to be created. We submitted and received approval on the Basin Fruitland Coal C-102 on September 4, 1992 at which time the spacing unit was designated as an E/2 spacing unit. I cannot tell you why the change to an E/2 spacing unit occurred, however, it appears that we never requested an amendment for the NSL Administrative order to have it represented as an E/2. In our recent application for unorthodox location for this well dated September 10, 1996, we requested the location exception for the reason of being "off pattern" in the Fruitland and notified all offset operators to the E/2 spacing unit. I would request that we amend the order to reflect a change to the E/2 spacing unit, or if that is not possible, issue a new order for the East half.

Should you have additional questions or need additional information, please feel free to contact me at (303) 830-5344.

Sincerely Pamela W. Staley T

cc: Steve Webb - Amoco



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 25, 1996

Amoco Production Company Southern Rockies Business Unit P.O. Box 800 Denver, Colorado 80201

Attention: Pamela W. Staley

Re:

Administrative Application for directional drilling and the continuation of Division Administrative Order NSL-3068: Lodewick Well No. 1 (API No. 30-045-06463), located 990'FS&EL (Unit P) of Section 18, Township 27 North, Range 9 West, NMPM, Fulcher Kutz-Pictured Cliffs Pool/Basin-Fruitland Coal (Gas) Pool, San Juan County, New Mexico.

Dear Ms. Staley:

Just a small bit of preliminary data to complete my review of the subject application: (i) at what depth is the kick-off window in the 5-1/2 inch casing to be milled; (2) has the downhole commingling authority been approved for the Fruitland Coal and Pictured Cliffs intervals; and, (iii) the original administrative application for the unorthodox coal gas well location in the Basin-Fruitland Coal (Gas) Pool filed with the Division on October 3, 1991 indicated the S/2 equivalent of said Section 18 was to be dedicated to said well, this was also stipulated in said Administrative Order NSL-3068, dated October 23, 1991, the C-102 for this well shows the E/2 to be dedicated to the well for Fruitland coal gas production: when did this change occur and why?

Thank you for your cooperation in this matter and should you have any questions, please contact me in Santa Fe at (505) 827-8185.

Sincerely,

Michael E. Stogner Chief Hearing Officer/Engineer

cc: Oil Conservation Division - Aztec U.S. Bureau of Land Management - Farmington William F. Carr, Attorney for Amoco - Santa Fe REGINTED

496 001 17 MM 8 52

September 12, 1996

Mr. Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410

Application For Deviated Wellbore - Rule 111.C. Lodewick Well #1 Unit P Section 18-T27N-R9W Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools San Juan County, New Mexico

Souther :kies USITE

Poes not qualify for District DIST. 3

Amoco Production Company hereby requests administrative approval to side track an existing wellbore by deviating in an indeterminate direction (no intentional azimuth)) for the purpose of recompleting into an existing formation. Amoco plans to sidetrack this well to move away from the original wellbore in order to avoid formation damage generated from earlier completion methods. The well was originally drilled and completed as an openhole Pictured Cliffs well. In 1971, the Pictured Cliffs was cased and fracture stimulated and has never performed well. The cumulative production from the Pictured Cliffs in this well is substantially less than its direct offsets. In 1991, the Pictured Cliffs was abandoned and the well was recompleted to the Fruitland with a large slick water frac. The well has never been able to sustain production since its initial completion. A test compressor was installed and again the well could not sustain production. The analysis indicates that the Fruitland was severely damaged or water blocked due to the large volume of slick water that was pumped.

To alleviate the problem, a sidetrack is planned for the well. The well will be sidetracked and completed as <u>a downhole commingled Pictured Cliffs and Fruitland well</u>. In order to move far enough away from the damage in the Pictured Cliffs and Fruitland, and, to ensure that we do not intercept the original fracture stimulation damage zone, we plan to move approximately 50 to 100 feet away from the original wellbore. Since the general orientation for fractures in the San Juan Basin is NE/SW, the sidetrack will be oriented towards the Northwest at a 315 degree azimuth. This orientation will only consist of opening the hole on that side of the casing. NO ORIENTATION OR DRIVING MECHANISM WILL BE USED OUTSIDE THE CASING.

In 1991 we applied for and received Administrative order NSL-3068 allowing for the recompletion of this well to the Fruitland Coal at an unorthodox location. This location was unorthodox because it was in the southeast quarter rather than the required Northeast/ Southwest pattern. A copy of that order is attached. In a separate application, Amoco is notifying the offset operator that we will again be producing the Fruitland at an unorthodox location pursuant to our NSL-3068 order.

A copy of this application will be submitted to the offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office. Attached are plats showing the location of the well, offset operators, and all wells drilled in the area.

Pamela W. Staley

Attachments cc: Steve Webb, Amoco Gail Jefferson, Amoco

WAIVER

hereby waives objection to Amoco's application for an unorthodox well location for the Lodewick #1 well described above.

By: _

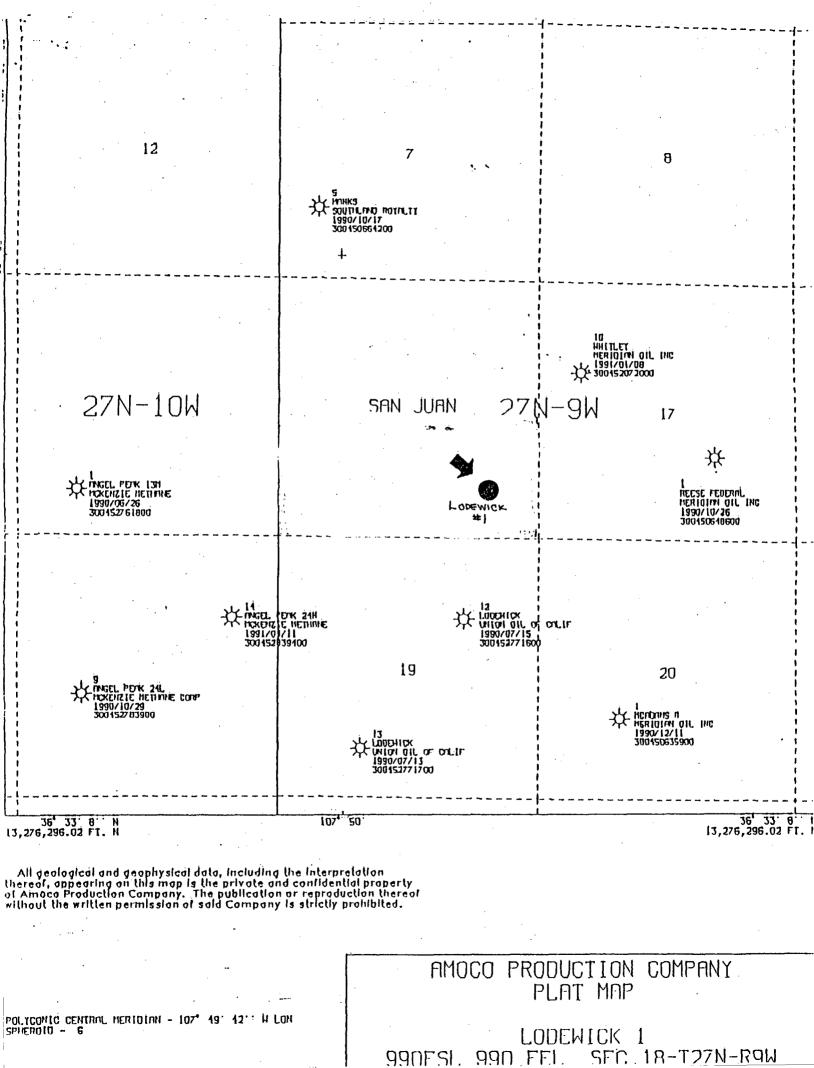
Date:

APPLICATION FOR APPROVAL OF A DEVIATED WELLBORE RULE 111.C(1)

Lodewick Well #1 Unit P Section 18-T27N-R9W Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools San Juan County, New Mexico

ATTACHMENTS:

- 9-SECTION PLAT SHOWING LOCATION OF SPACING UNIT AND ALL ADJOINING SPACING UNITS
- FORM C-102 FOR FRUITLAND COAL FORMATION
- FORM C-102 FOR PICTURED CLIFFS FORMATION
- LIST OF ALL OFFSET OPERATORS AND THEIR ADDRESSES





22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

9.7 2 20 tolewich 1 272 Ď 4 R Mendian New Menduar . 3 Å 4 ٠ ¥ 00 Mondian Mendian 8 4 Ar Menduan × Monduin Mondian R 2 æ

. ·

. . .

.

.

-

SEP 09 '96 08:49 OCD AZTEC NM

NEW MEXICO

OIL CONSERVATION COMMISSION

Date December 10, 1954 1 Three States Natural Gas Co. Lodewick Operator Lease Well No. Name of Producing Formation Pictured Cliffs Pool Kutz-Fulcher 160 ¥Ø No. Acres Dedicated to the Well Indicate land status and show ownership Federal SECTION-18 27N 9W TOWNSHIP_ RANGE Ŭ X. L 3 195Å DEC ON. COM. OIL DIST. 3

I hereby certify that the information given above is true and complete to the best of my knowledge. John Carothur

Name

Position Agent RepresentingThree States Natural Gas Co. Address Box 67, Farmington, New Mexico

(over)

Gas Well Plat

SEP 09 '96 08:48 OCD AZTEC NM	P.1 -
Subnit to Appropriate to Gill JEGRISON State of New Mexico District Office Energy, Minerals and Natural Resources Department State Lease - 3 copies Fr. Doro The - OCH	Form C-102 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT H DISTRICT H OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088	Hold c-10%
DISTRICT II P.O. Drawer DD, Artosia, NM 88210	No NSL. C
DISTRICT III WELL LOCATION AND ACREAGE DEDICATION PLAT	
All Distances must be from the outer boundaries of the section Decision	Well No.
Amoco Production Company Lodewick	#1
P 18 27N 9W NM/PM	San Juan
ictual Footage Location of Well: 990" feet from the FSL line and 990" feet from t fround level Elev. Producing Formation [Pool	he EVE line E/2
6478' Fruitland Coal Basin Fruitland Coal Gas	- 321,08 Acres
1. Outline the acreage dedicated to the subject well by colored peacil or hechure marks on the plat below.	320
 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidation 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 laterests have been consolidated (by communitization, unitization, or until a non-standard unit, eliminating such interest, has been approved by the Division. 	
	OPERATOR CERTIFICATION
	I hereby certify that the information mained herein in true and complete to the st of my knowledge and belief.
	gosture - L. thompton Will inted Name
	J.L. Hampton Mulon Sr. Staff Admin. Supr.
	ampany Amoco Prod. Co.
	8/27/92
	SURVEYOR CERTIFICATION hereby certify that the well location shown
	n thus plat was plotted from field notes of clual surveys made by me or under my spervision, and that the same is true and
	preset to the best of my knowledge and elief. Date Surveyed
	"on file"
	iignature & Scal of Tofessicoal Surveyor
	et:Gente No
	crificsio No.
330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0	

٠

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



BRUCE KING

October 23, 1991

POST OFFICE 80X 2088 STATE LAND OFFICE 8UILDING SANTA FE, NEW MEXICO 87504 15051 827-5800

Amoco Production Company P.O. Box 800 Denver, Colorado 80201

Attention: J.W. Hawkins

Administrative Order NSL-3068

Dear Bill:

Reference is made to your application dated October 1, 1991 for a non-standard Basin-Fruitland coal gas well location for your existing Lodewick Well No. 1 which was drilled in 1951 and completed in the Fulcher Kutz Pictured Cliffs Pool at a standard gas well location 990 feet from the South and East lines (Unit P) of Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

It is my understanding that the Pictured Cliffs zone will be properly plugged back and said well will be recompleted to the Basin-Fruitland Coal Gas Pool, which pursuant to the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768, as amended, is unorthodox. Further, Lots 3 and 4, the E/2 SW/4, and SE/4 (S/2 equivalent) of said Section 18 shall be dedicated to the well forming a standard 321.08-acre gas spacing and proration unit for said pool.

By authority granted me under the provisions of Rule 8 of the Division Order No. R-8768, as amended, the above described unorthodox coal gas well location is hereby approved.

Sincerely, WILLIAM J. LEMA Director

WJL/MES/jc

cc: Oil Conservation Division - Aztec U.S. BLM - Farmington

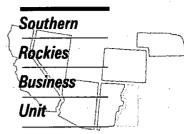
LIST OF ADDRESSES FOR OFFSET OPERATORS

Lodewick #1

Burlington Resources Oil and Gas Co. P.O. Box 4289 Farmington, NM 87499

NSL

10/9/96



SEP 1 9 1996 OIL CONSERVATION DIVISION

September 10, 199

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P.O. Box 6429 Santa Fe, NM 87505

Application For Unorthodox Location Lodewick Well #1 990' FSL & 990' FEL, Unit P Section 18-T27N-R9W **Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools** San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval for an unorthodox well location for the Lodewick #1 well in the Basin Fruitland Coal. Amoco plans to sidetrack this well to move away from formation damage in the original wellbore moving 50 to 100 feet from the curent wellbore location. In 1991 we applied for and received Administrative order NSL-3068 allowing for the recompletion of this well to the Fruitland Coal at an unorthodox location. A copy of that order is attached. This location was unorthodox because it was in the southeast guarter rather than the required Northeast/Southwest pattern as specified in the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768. At the time of our application, notice was made to Burlington Resources as one of the affected parties. Today, Burlingon Resources operates all of the potentially affected spacing units. The reason for seeking the location exception is unchanged.

A copy of this application will be submitted to the offset operators by certified mail with a request that they A copy of this application will be submitted to the offset operators by certified mail will a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office. Attached are plats showing the location of the well and all wells drilled in the area of the state Steve Webb, Amoco Gail Jefferson, Amoco Low 111. K(1) Then submit for 111. C

Frank Chavez, Supervisor cc: NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410

Aztre District Office Auround to M. C;

WAIVER

I nowing well Stor 111. A (2) Then we withered well Stor 111. A (2) I the afference information wit cc-ocp Artec hereby waives objection to Amoco application for an unorthodox well location for the Lodewick #1 well described above. K

By: ____

Date:

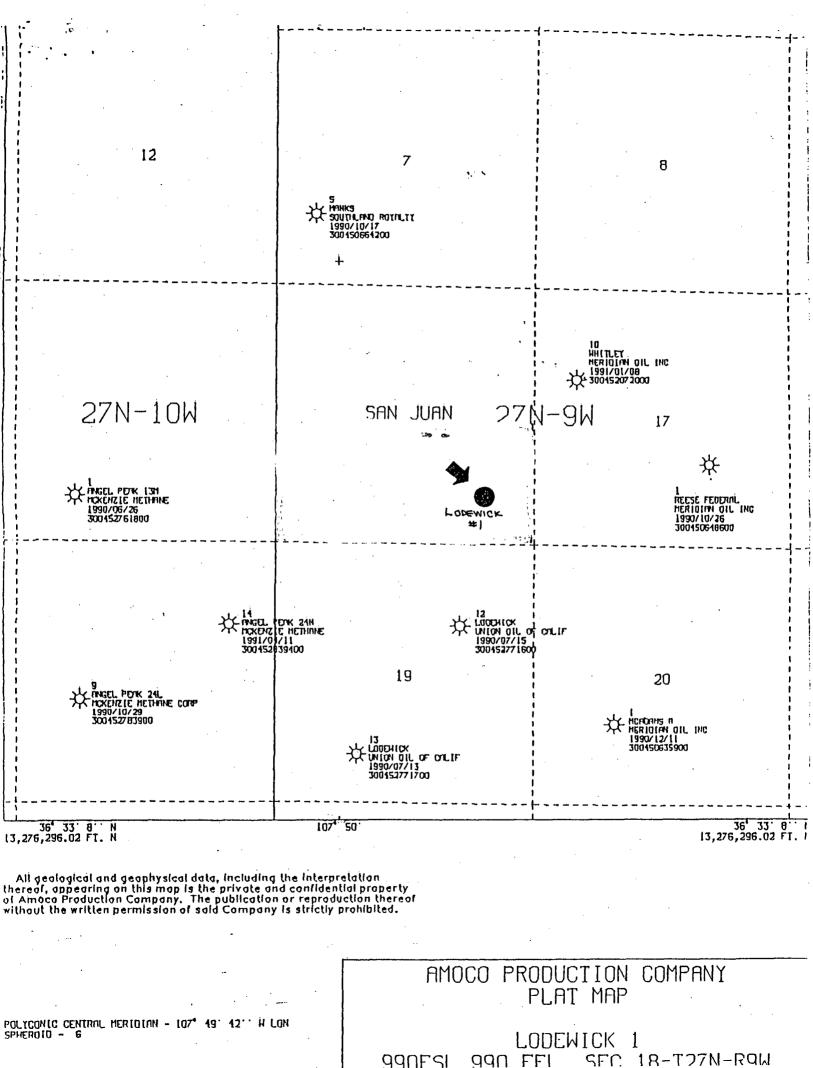
however this well is to be a

APPLICATION FOR APPROVAL OF UNORTHODOX LOCATION UNDER RULE 104-F

Lodewick Well #1 Unit P Section 18-T27N-R9W Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools

ATTACHMENTS:

- 9-SECTION PLAT SHOWING LOCATION OF ALL OFFSET WELLS
- FORM C-102 FOR BASIN FRUITLAND COAL FORMATION
- FORM C-102 FOR PICTURED CLIFFS FORMATION
- COPY OF ADMINISTRATIVE ORDER NSL-3068
- LIST OF ALL OFFSET OPERATORS AND THEIR ADDRESSES



Subnit to Appropria District Office State Lease - 4 copie Fee Lease - 3 copies	Fr. Doro	Deffers Energy The OCB	y, Minerals a		exico esources Depar ON DIVIS			Form C-102 Kevised 1-1-	-
DISTRICT I P.O. Box 1980, Hob DISTRICT II	64, NM 88240			P.O. Box 201 New Mexico	38		Ko	ed c-109	
P.O. Drawer DD, Ar DISTRICT III			CATION A			1011 81 47		Son 150 C	
1000 Rio Brazos Rd.	, Azicc, NM 87410			from the outer t	se DEDICAT		_	·	
Operator Amoco Pi	coduction Co	mpany		Lesse		• •		Well No.	
Uois Letter	Section	Township		Lodewick Ruge		•	County	<u> #1 · · · </u>	
Actual Footage Loca	18	27N		9W		NMIM	San i	Juan	
990	Feel from the	FSL	line and	990'		fect from t	ho PNE	57 line E/	
Ground level Elov. 6478 '		g Formation		Pool				Dedicated Acreage:	•
L	the screege dedicates	land Coal	by colored peo	Basin Fr	uitland Co	Dal Gas	<u> </u>		art
}	than one lesse is ded		•		•			320	
this form No allows	Yas is "no" list the owner if peccessary. ble will be assigned t	s and tract description	ous which have	za consolidated (wolidated. (Use m		forced-poolin	g, or otherwise)	
	non-standard unit, elin	mouling ruch interel	Concernation	roved by the Div				OR CERTIFICA	
	Don-stapdard unit, elit			xoved by the Div	15100.	50 51 7	I hereby nioined herei si of my knowl gazuire	certify that the is in in true and comp ledge and belief.	forma
	Don-Elapdard unit, elin						I hireby nicined herei si of my brown gasture J.L. Hamp sitton Gr. Staf mpauy INOCO Pro- te <u>B / 2.7</u>	certify that the in in in true and comp ledge and belief. 60 <u>mm/m/m/</u> pton f Admin. Sup od. Co.	interina late to
	boa-stapdard unit, elin						I hireby ntained harit si of my knowl gailure I.L. Hamp sillon SI. Staf ST. Staf SURVEY hereby certify this plot w	certify that the in in in true and comp ledge and belief. <u>Ompfon</u> pton f Admin. Sup od. Co. <u>97</u> OR CERTIFICA withat the well local as plotted from field	Norma late to //// // // // // // // // // // // //
							I hereby niained harisi si of my knowl gasture 	certify that the in in insuic and comp ledge and belief. <u>Ont Afor</u> pton f Admin. Sup od. Co. <u>9</u> Z OR CERTIFICA what the well local made by me or d that the same is best of my know	Norma late lo (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	SEP QAIST.				13100. 990'		I hereby niained harisi si of my knowl gasture 	certify that the in in in true and comp ledge and belief. <u>Omport of on</u> pton f Admin. Sup od. Co. <u>9</u> OR CERTIFICA what the well local as plotted from field made by me or d that the same is best of my know file"	nforma late lo <u>(())</u> <u>D</u> <u>T</u>

SEP 09 '96 08:49 OCD AZTEC NM .

NEW MEXICO

P.2

Gas Well Plat

OIL CONSERVATION COMMISSION

e States Natural Gas Ce.	Lodewick	Date December 10, 1954
Operator	Lease	Well No.
ne of Producing Formation	Pictured Cliff	Pool_Kutz-Fulcher
Acres Dedicated to the We	1 160	
cate land status and show o	wnership Fe OWNSHIP 27N	deral RANGE 9W
ECTION 18 TO		RANGE
· · ·		
		and the second se
		× RU
		DECT
	ß	DEUL OIL OI DIS

Name

(over)

to the best of my knowledge.

Position Agent RepresentingThree States Natural Gas Co. Address Box 67, Farmington, New Maxies

Carollin

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISIÓN

BRUCE KING GOVERNOR

October 23, 1991

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

Amoco Production Company P.O. Box 800 Denver, Colorado 80201

Attention: J.W. Hawkins

Administrative Order NSL-3068

Dear Bill:

Reference is made to your application dated October 1, 1991 for a non-standard Basin-Fruitland coal gas well location for your existing Lodewick Well No. 1 which was drilled in 1951 and completed in the Fulcher Kutz Pictured Cliffs Pool at a standard gas well location 990 feet from the South and East lines (Unit P) of Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

It is my understanding that the Pictured Cliffs zone will be properly plugged back and said well will be recompleted to the Basin-Fruitland Coal Gas Pool, which pursuant to the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768, as amended, is unorthodox. Further, Lots 3 and 4, the E/2SW/4, and SE/4 (S/2 equivalent) of said Section 18 shall be dedicated to the well forming a standard 321.08-acre gas spacing and proration unit for said pool.

By authority granted me under the provisions of Rule 8 of the Division Order No. R-8768, as amended, the above described unorthodox coal gas well location is hereby approved.

Sincerely, WILLIAM J. LEM Director

WJL/MES/jc

Oil Conservation Division - Aztec cc: U.S. BLM - Farmington

LIST OF ADDRESSES FOR OFFSET OPERATORS

Lodewick Well #1

·. .

Burlington Resources Oil and Gas Co. P.O. Box 4289 Farmington, NM 87499

NSL

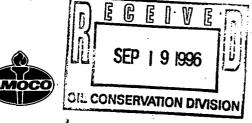
herear this well is to be a

Lwell S. In 111. A (2) Then.

Southern

lockie.

10/9/96



September 10, 19

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P.O. Box 6429 Santa Fe, NM 87505

Application For Unorthodox Location Lodewick Well #1 990' FSL & 990' FEL, Unit P Section 18-T27N-R9W **Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools** San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval for an unorthodox well location for the Lodewick #1 well in the Basin Fruitland Coal. Amoco plans to sidetrack this well to move away from formation damage in the original wellbore moving 50 to 100 feet from the curent wellbore location. In 1991 we applied for and received Administrative order NSL-3068 allowing for the recompletion of this well to the Fruitland Coal at an unorthodox location. A copy of that order is attached. This location was unorthodox because it was in the southeast guarter rather than the required Northeast/Southwest pattern as specified in the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768. At the time of our application, notice was made to Burlington Resources as one of the affected parties. Today, Burlingon Resources operates all of the potentially affected spacing units. The reason for seeking the location exception is unchanged.

A copy of this application will be submitted to the offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office. Attached are plats showing the location of the well and all wells drilled in the area of the state of the s this unbruit with the

Attachments cc: Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410

Dike Dustriel Office humand to M. C; Steve Webb, Amoco Gail Jefferson, Amoco

WAIVER

1. the altrapriate and cc-ocp Artec hereby waives objection to Afnocies application for an unorthodox well location for the Lodewick #1 well described above. ĸ

By:

Amoco Exploration and Production 1670 Broadway P.O. Box 800 Denver, Colorado 80201

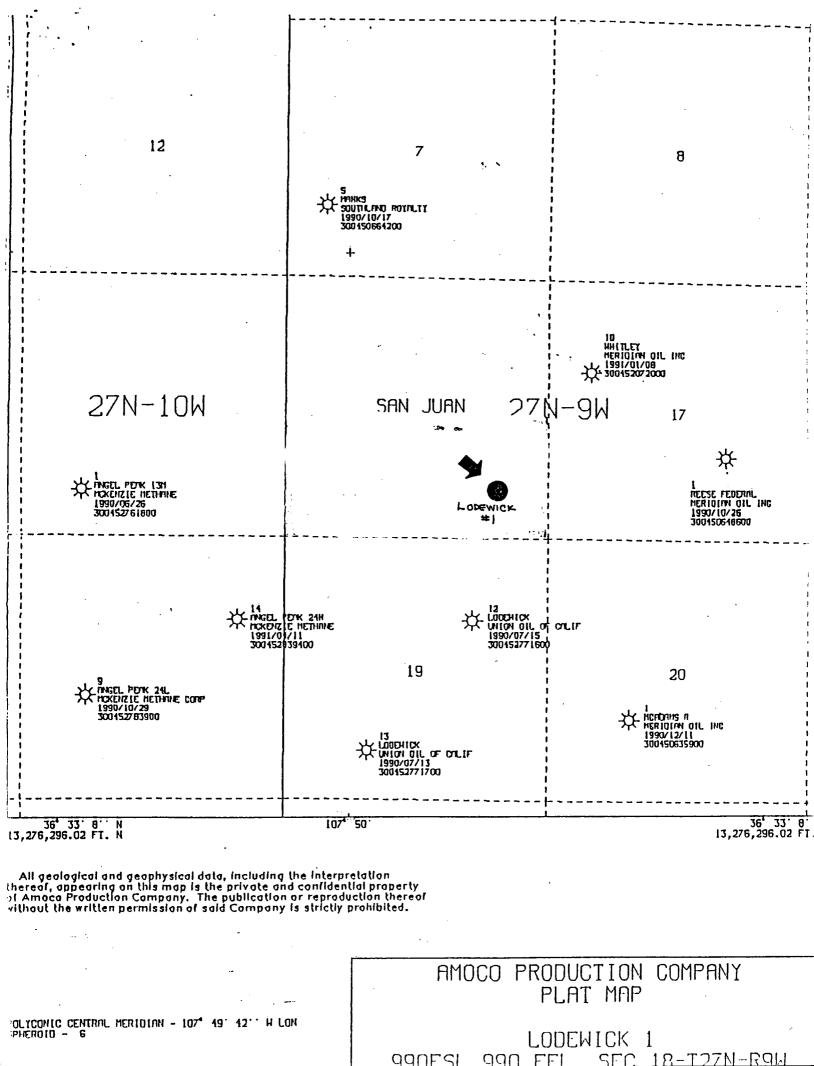
Date:

APPLICATION FOR APPROVAL OF UNORTHODOX LOCATION UNDER RULE 104-F

Lodewick Well #1 Unit P Section 18-T27N-R9W Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools

ATTACHMENTS:

- 9-SECTION PLAT SHOWING LOCATION OF ALL OFFSET WELLS
- FORM C-102 FOR BASIN FRUITLAND COAL FORMATION
- FORM C-102 FOR PICTURED CLIFFS FORMATION
- COPY OF ADMINISTRATIVE ORDER NSL-3068
- LIST OF ALL OFFSET OPERATORS AND THEIR ADDRESSES



SEP 09 '96 08:48 OCD AZ	TEC NM	•	/	P.1
Subnuit to Appropriate To Grill Je- District Office State Lease - 4 copies Fr. DerbTin-1-	CALEON) SU	ile of New Me	xico	E - 6 100 +
District Office State Lesse - 4 copies Fr Darth That	Energy, Minerals	and Natural Ro	sources Department	Form C-102 Kevlæd 1-1-89
• • • • • •	OIL CONSE	ERVÁTIO	N DIVISION	
DISTRICT I P.O. Box 1980, Hobbs, NM 88240		P.O. Box 208	8	Vild C-109
DISTRICT II P.O. Drawer DD, Arcesia, NM 88210	Santa Fe, I	New Mexico	87304-2088	Hold c-104 Hold C-104
DISTRICT III WE	ELL LOCATION A	ND ACREAG	E DEDICATION PI	
1000 Rio Brazos Rd., Aziec, NM 87410	All Distances must be		oundaries of the section	
Amoco Production Company	. •	Lesso Todoctó alo		Well No.
Usit Letter Sections Townsh	iip	Lodewick Ruge		County #1
Actual Foodage Location of Well:	27N	9W	NM	IPM San Juan
990' feet from the FS	SL line and .	990'	fect f	rom the EME line E/2
Ground level Elev. Producing l'onusul 6478' Fruitland (Basin Pr	uitland Coal G	Dedicated Acreage:
i. Cutline the acreage dedicated to the su		cil or hechure ma	ts og the plat below.	as <u>1321-08 Acri</u> 320
2. If more than one lesse is dedicated to t	he well, outline each and	Ideally the owne	nhip thereof (both as to w	orking interest and royalty).
3. If more than one lease of different own	persivip is dedicated to the	well, have the in	erest of all owners been or	n solidated by communitization,
unitization, force-pooling, etc.? Yes No	If answer is "yes" typ	e of consolidation		
If answer is "no" list the owners and tract this form if peccessary.	descriptions which have	actually been con	colidated. (Use reverse sid	la of
No allowable will be assigned to the well or until a non-standard unit, eliminating r				ation, forced-pooling, or otherwise)
	wei interes, ins ober app			
		Ţ		OPERATOR CERTIFICATION I hireby certify that the information
		·		contained herein in true and complete to the best of my knowledge and belief.
	-	.		Signature. 4. L. Homoton Will
		4. [Drinled Name
				J.L. Hampton
		· I		Sr. Staff Admin. Supr.
				Company Amoco Prod. Co.
) i				Date
	1	ł		3/27/92
				SURVEYOR CERTIFICATION
		· . [I hereby certify that the well location shown
		ł		on this plat was plotted from field notes of actual survives made by me or under rive
		1		supervison, and that the same is true and correct to the best of my knowledge and
		· i		belief.
		ļ		Date Surveyed "On file"
101 - 44 1996				Signature & Scal of
DI GEP 4 1992 DU GEP 4 1992 OIL CON. 5 OIL DIST. 5			<u>990'</u>	Professional Surveyor
	· •	· •		
		i	990'	· · ·
				Critificate Na.
0 330 5:0 990 5320 1650 1980 2	310 2640 200	× 1500	1000 500 0	

SEP 09 '96 08:49 OCD AZTEC NM

NEW MEXICO

Gas Well Plat

P.2

OIL CONSERVATION COMMISSION

Cos States Natural Gas Operator me of Producing Form	Lease	Date December 10, 19 L Well No. Pool Kutz-Fulcher
Acres Dedicated to th cate land status and s SECTION 18		RANGE SW

I hereby certify that the information given above is true and complete to the best of my knowledge. Parathis

Name

MARIA

Position Agent RepresentingThree States Natural Gas Co. Address Box 67, Farmington, New Mexico

(over)

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



DIL CONSERVATION DIVISION

BRUCE KING

October 23, 1991

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

Amoco Production Company P.O. Box 800 Denver, Colorado 80201

Attention: J.W. Hawkins

Administrative Order NSL-3068

Dear Bill:

Reference is made to your application dated October 1, 1991 for a non-standard Basin-Fruitland coal gas well location for your existing Lodewick Well No. 1 which was drilled in 1951 and completed in the Fulcher Kutz Pictured Cliffs Pool at a standard gas well location 990 feet from the South and East lines (Unit P) of Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

It is my understanding that the Pictured Cliffs zone will be properly plugged back and said well will be recompleted to the Basin-Fruitland Coal Gas Pool, which pursuant to the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768, as amended, is unorthodox. Further, Lots 3 and 4, the E/2 SW/4, and SE/4 (S/2 equivalent) of said Section 18 shall be dedicated to the well forming a standard 321.08-acre gas spacing and proration unit for said pool.

By authority granted me under the provisions of Rule 8 of the Division Order No. R-8768, as amended, the above described unorthodox coal gas well location is hereby approved.

Sincerely, WILLIAM J. LEN Director

WJL/MES/jc

cc: Oil Conservation Division - Aztec U.S. BLM - Farmington

LIST OF ADDRESSES FOR OFFSET OPERATORS

Lodewick Well #1

Burlington Resources Oil and Gas Co. P.O. Box 4289 Farmington, NM 87499

R	[2	G SEP	[<u>ह</u>	 9	V 996	2		
OILC	ON	SER	VAT	101	N DI	Vis	ION	l

September 10, 19

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P.O. Box 6429 Santa Fe, NM 87505

Application For Unorthodox Location Lodewick Well #1 990' FSL & 990' FEL, Unit P Section 18-T27N-R9W **Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools** San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval for an unorthodox well location for the Lodewick #1 well in the Basin Fruitland Coal. Amoco plans to sidetrack this well to move away from formation damage in the original wellbore moving 50 to 100 feet from the curent wellbore location. In 1991 we applied for and received Administrative order NSL-3068 allowing for the recompletion of this well to the Fruitland Coal at an unorthodox location. A copy of that order is attached. This location was unorthodox because it was in the southeast quarter rather than the required Northeast/Southwest pattern as specified in the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768. At the time of our application, notice was made to Burlington Resources as one of the affected parties. Today, Burlingon Resources operates all of the potentially affected spacing units. The reason for seeking the location exception is unchanged.

A copy of this application will be submitted to the offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office. Attached are plats showing the location of the well and all wells drilled in the area of the state of the s Steve Webb, Amoco En 111. K(1)] Then unbruich for 111. E Gail Jefferson, Amoco En 111. K(1)] and

Attachments cc: Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410

Deter District Office Auround to M. C;

WAIVER

cc-ocp Aztec hereby waives objection to Affloct's application for an unorthodox well location for the Lodewick #1 well described above. ĸ

By:

Date:

Lwell Star 111. A (2) Them.

the afferentiere

NSL.

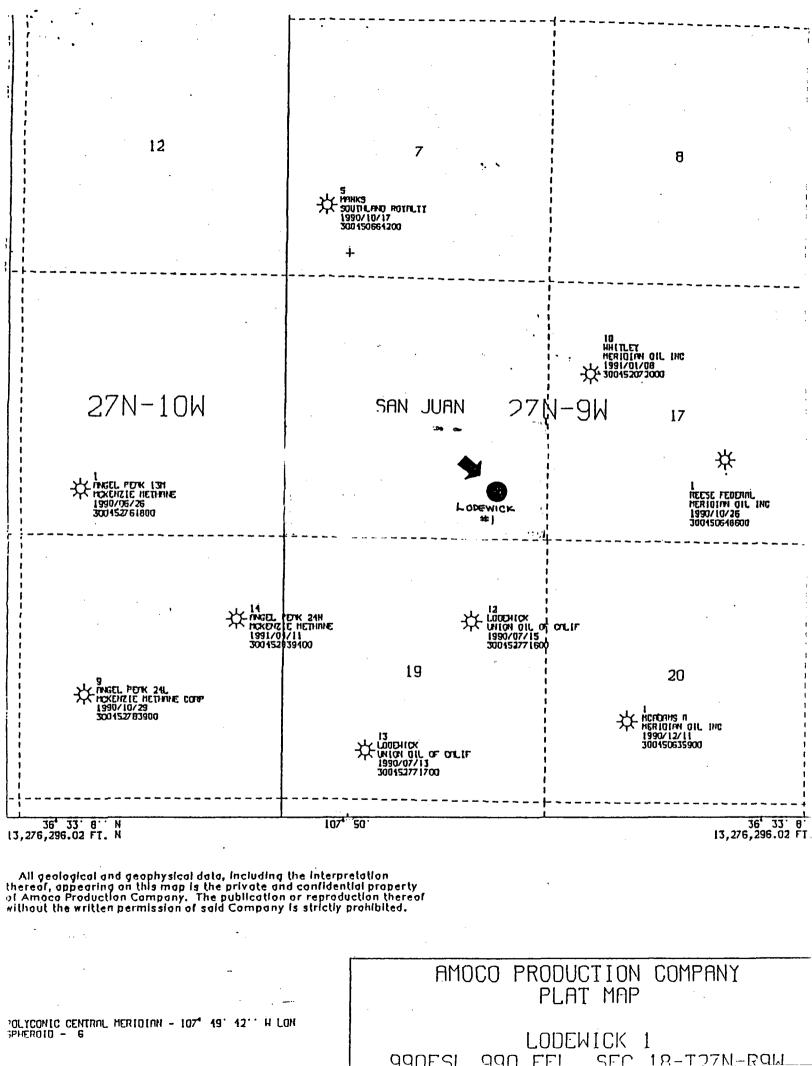
Southern

APPLICATION FOR APPROVAL OF UNORTHODOX LOCATION UNDER RULE 104-F

Lodewick Well #1 Unit P Section 18-T27N-R9W Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools

ATTACHMENTS:

- 9-SECTION PLAT SHOWING LOCATION OF ALL OFFSET WELLS
- FORM C-102 FOR BASIN FRUITLAND COAL FORMATION
- FORM C-102 FOR PICTURED CLIFFS FORMATION
- COPY OF ADMINISTRATIVE ORDER NSL-3068
- LIST OF ALL OFFSET OPERATORS AND THEIR ADDRESSES



SEP 09 '96 08:48 OCD AZTEC N		P.1
Siste Lesse - 4 copies Fr. Duruting - OCH		· · · · · · · · · · · · · · · · · · ·
DISTRICT I P.O. Box 1980, Hoobs, NM 88240	L CONSERVATION DIVI P.O. Box 2088	SION I C-109
DISTRICT II P.O. Drawer DD, Arcesia, NM 88210	Santa Fe, New Mexico 87504-208	SION BB Hold C-109 An NSC C
DISTRICT III WELL LC	CATION AND ACREAGE DEDICA	ATION PLAT
Operator All Dist	ancos must be from the outer boundarios of	the section Well No.
Amoco Production Company Usa Letter Section Township	Lodewick Ruge	#1
P 18 27N	9W	County NMPM San Juan
990' feel from the FSL	line and 990'	feet from the EVE line E/2
Ground level Elev. Producing Formulos 6478' Fruitland Coal	Pool Basin Pruitland	Coal Gas J21-08- Acres
i. Outline the acreage dedicated to the subject well	I by colored peocli or hachure marks on the plat	below. 3-20
2. If more than one lease is dedicated to the well, o		· · · · ·
3. Il more than one lease of different ownership is unitization, force-pooling, etc.?		mens been consolidated by communitization,
Yes No If and If answer is "no" list the owners and tract description this form if peccessary.	ever is "yes" type of consolidation ious which have actually been consolidated. (Us	o reverse aide of
No silovable will be assigned to the well until all or until a non-standard unit, eliminating such intere	laterests have been consolidated (by communitiz	stion, unitization, forced-pooling, or otherwise)
,,, _,, _		OPERATOR CERTIFICATION
		I hereby certify that the information contained herein in true and complete to the
		best of my knowledge and belief.
		Significe.
		Divid Nume J.L. Hampton
		Podilog Sr. Staff Admin. Supr.
		Company
		Amoco Prod. Co.
		8/27/92
		SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plot was plotted from field notes of
		actual surviyy made by me or under rig supervison, and that the same is true and
		correct to the best of my knowledge and belief.
		Date Surveyed "On file"
DIE GERNYE DIV. DIV SEPO 41992 DIV SEPO 41992 DIV. OIL CON. DIV. OIL DIST. 5	e la companya de la c	Signature & Seal of Professional Surveyor
1 CON. 5	pZa	
Cir 10:21.	990	
		Certificato Na.
0 330 5:0 990 1320 1650 1980 2310 26	10 2000 1500 1000 5	00 O

.

SEP 09 '96 08:49 OCD AZTEC NM

• • •

NEW MEXICO

Gas Well Plat

OIL CONSERVATION COMMISSION

e <u>States Natural Ga</u> Operator e of Producing Form	s Ce. Lodewick Lease mation Pictured Cliffs	Well No. PoolKutz-Fulcher
Acres Dedicated to ate land status and ECTION18		21. RANGE9W
		X RET DEC OIL

I hereby certify that the information given above is true and complete to the best of my knowledge. Parothis

Name

Position Agent RepresentingThree States Natural Gas Co. Address Box 67, Farmington, New Mexico

(over)

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



DIL CONSERVATION DIVISION

BRUCE KING

October 23, 1991

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

Amoco Production Company P.O. Box 800 Denver, Colorado 80201

Attention: J.W. Hawkins

Administrative Order NSL-3068

Dear Bill:

Reference is made to your application dated October 1, 1991 for a non-standard Basin-Fruitland coal gas well location for your existing Lodewick Well No. 1 which was drilled in 1951 and completed in the Fulcher Kutz Pictured Cliffs Pool at a standard gas well location 990 feet from the South and East lines (Unit P) of Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

It is my understanding that the Pictured Cliffs zone will be properly plugged back and said well will be recompleted to the Basin-Fruitland Coal Gas Pool, which pursuant to the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768, as amended, is unorthodox. Further, Lots 3 and 4, the E/2 SW/4, and SE/4 (S/2 equivalent) of said Section 18 shall be dedicated to the well forming a standard 321.08-acre gas spacing and proration unit for said pool.

By authority granted me under the provisions of Rule 8 of the Division Order No. R-8768, as amended, the above described unorthodox coal gas well location is hereby approved.

Sincerely, WILLIAM J. LEN Director

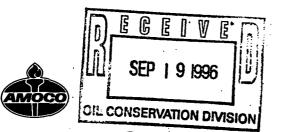
WJL/MES/jc

cc: Oil Conservation Division - Aztec U.S. BLM - Farmington

LIST OF ADDRESSES FOR OFFSET OPERATORS

Lodewick Well #1

Burlington Resources Oil and Gas Co. P.O. Box 4289 Farmington, NM 87499



September 10, 1995

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P.O. Box 6429 Santa Fe, NM 87505

Application For Unorthodox Location Lodewick Well #1 990' FSL & 990' FEL, Unit P Section 18-T27N-R9W **Basin Fruitland Coal and Fulcher Kutz Pictured Cliffs Pools** San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval for an unorthodox well location for the Lodewick #1 well in the Basin Fruitland Coal. Amoco plans to sidetrack this well to move away from formation damage in the original wellbore moving 50 to 100 feet from the curent wellbore location. In 1991 we applied for and received Administrative order NSL-3068 allowing for the recompletion of this well to the Fruitland Coal at an unorthodox location. A copy of that order is attached. This location was unorthodox because it was in the southeast quarter rather than the required Northeast/Southwest pattern as specified in the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768. At the time of our application, notice was made to Burlington Resources as one of the affected parties. Today, Burlingon Resources operates all of the potentially affected spacing units. The reason for seeking the location exception is unchanged.

11-20-96

A copy of this application will be submitted to the offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office. Attached are plats showing the location of the well and all wells drilled in the area of the state of the s Steve Webb, Amoco Gail Jefferson, Amoco

Attachments

cc: Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410

Azter Dustriel Office furment to M. C;

WAIVER

the the appropriate info cc-ocp Artec hereby waives objection to Affloct's application for an unorthodox well location for the Lodewick #1 well described above. ĸ

By:

Amoco Exploration and Production

Date:

however this well is to be a

wind well Ster 111. A (2) Then.

NSL

11 Application

. or warnage

withet

outhern

Mike Stogner

-7

From:Ernie BuschTo:Mike StognerSubject:AMOCO LODEWICK #1 (NSL)Date:Friday, November 22, 1996 10:51AMPriority:High

LODEWICK #1 990' FSL; 990' FEL P-18-27N-09W RECOMMEND: APPROVAL

ONGARD INQUIRE LAND BY SECTION

Sec : 18 Twp : 27N Rng : 09W Section Type : NORMAL

3	K	J	I
40.57	40.00	40.00	40.00
Federal owned	Federal owned	 Federal owned	 Federal owned
4 40.51	N 40.00	O 40.00	P 40.00
Federal owned	Federal owned	Federal owned	Federal owned
A A			AA
PF01 HELP PF02	PF03 EXIT	PF04 GoTo PF05	PF06
PF07 BKWD PF08 FW		PF10 SDIV PF11	PF08 PF12
			<i>- z</i> ,

ONGARD INQUIRE LAND BY SECTION

Sec : 18 Twp : 27N Rng : 09W Section Type : NORMAL

			<u></u>
1	C	В	A
40.69	40.00	40.00	40.00
Federal owned	Federal owned	Federal owned	Federal owned
A			A
	_ {	[
2	F	G	H
40.63	40.00	40.00	40.00
Federal owned	Federal owned	Federal owned	Federal owned
	A	A	
	_]	_
		· · · · · · · · · · · · · · · · · · ·	
PF01 HELP PF02	PF03 EXIT	PF04 GoTo PF05	PF06
PF07 BKWD PF08 F	ND PF09 PRINT	PF10 SDIV PF11	PF12

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR October 23, 1991

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

Amoco Production Company P.O. Box 800 Denver, Colorado 80201

Attention: J.W. Hawkins

Administrative Order NSL-3068

Dear Bill:

Reference is made to your application dated October 1, 1991 for a non-standard Basin-Fruitland coal gas well location for your existing Lodewick Well No. 1 which was drilled in 1951 and completed in the Fulcher Kutz Pictured Cliffs Pool at a standard gas well location 990 feet from the South and East lines (Unit P) of Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico.

It is my understanding that the Pictured Cliffs zone will be properly plugged back and said well will be recompleted to the Basin-Fruitland Coal Gas Pool, which pursuant to the Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool as promulgated by Division Order No. R-8768, as amended, is unorthodox. Further, Lots 3 and 4, the E/2 SW/4, and SE/4 (S/2 equivalent) of said Section 18 shall be dedicated to the well forming a standard 321.08-acre gas spacing and proration unit for said pool.

By authority granted me under the provisions of Rule 8 of the Division Order No. R-8768, as amended, the above described unorthodox coal gas well location is hereby approved.

Sincerely, WILLIAM J. LE Director

WJL/MES/jc

cc: Oil Conservation Division - Aztec U.S. BLM - Farmington



OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

ADMINISTRATIVE ORDER DHC-1379

Amoco Production Company P.O. Box 800 Denver, Colorado 80201-0800

Attention: Ms. Pamela Staley

Lodewick Well No.1 (API No.30-045-06564) Unit P, Section 18, Township 27 North, Range 9 West, NMPM, San Juan County, New Mexico. Basin Fruitland Coal (71629) and Fulcher Pictured Cliffs (77200) Pools

Dear Ms. Staley:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

In accordance with the provisisons of Rule 303.C., the supervisor of the Aztec District Office of the Oil Conservation Division shall determine the proper allocation of production from the subject well following ist completion.

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 17th day of October, 1996.

- Administrative Order DHC-1379 Amoco Production Company October 17, 1996 Page 2

STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY Director

SEAL

WJL/BES

cc: Oil Conservation Division - Aztec Bureau of Land Management - Farmington