RECEIVED SEPT. 5, 1984

PHONE 915/684-4292

DINERO P. O. DRAWER 10505 MIDLAND, TEXAS 79702

September 4, 1984

State of New Mexico Oil Conservation Division P. O. Box 2088 Santa_Ee, New Mexico_87501 DINERO STATE WELL NO. 2 RE: Non-Standard Well Location 660' FSL & 990' FEL, Sec. 16, T-22-S, R-28-E, Eddy County, New Mexico S/2 OF SEC. 16 DEDICATED NSL - 1889 Rule 104 F**II** Release Sept. 25,1984

STATE LEASE

We wish to apply for a non-standard location to bring the proposed well within the boundaries of the targeted reservoirs, (Atoka and Morrow). We believe that the standard location would place us out-

side of the commercially desirable reservoir boundaries. We feel if this request is granted it will provide maximum production from the reservoirs and that this is in the best interest of all parties concerned.

In compliance with the New Mexico State Rules for administrative approval of non-standard well locations, I have notified all offset operators by certified mail. The off-set operators to this requested location are Amoco Production Company and Bass Enterprises Production Company.

If there are any questions concerning this application, please notify the undersigned or our Land Manager, Jim Dewey, at the above stated location.

Very truly yours,

Gentlemen:

DINERO OPERATING COMPANY

lana Dall

Lavonda Norman Production Supervisor

/ln

Enclosure



Amoco Production Company

501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253

August 21, 1984

Re: EA 49,016 C-97,176 Big Chief Area Eddy County, New Mexico L-420; SE New Mexico Strat.

Dinero P. O. Drawer 1050 Midland, TX 79702

Attention: Ms. Lavonde Norman

Gentlemen:

Reference is made to your letter of August 1, 1984, which informed Amoco that Dinero was considering a non-standard location for the proposed Dinero State #2 well in Section 16, T-22-S, R-28-E, Eddy County, New Mexico.

Upon completion of its evaluation of such, Amoco has no opposition to a non-standard location at 660' FSL x 660' FEL Section 16, T-22-S, R-28-E, Eddy County, New Mexico.

Sincerely,

and Walkoviel

Doris Walkoviak Landman

DW/agd 0P5D025

DINERO P. O. DRAWER 10505 MIDLAND, TEXAS 79702

September 4, 1984

State of New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Gilbert Quintana

RE: Non-Standard Location Change from 660' FS&EL to 660' FSL & 990' FEL Sec. 16, T-22-S, R-28-E, Eddy County, New Mexico

Gentlemen:

Here is the information you requested when we spoke on the telephone Friday in regards to our changing our Non-Standard, referenced above, location for our proposed well in Eddy County, New Mexico. This has been done in order for you to be able to grant an Administration Approval in place of the hearing that had been set for September 5, 1984.

Both off-set Operators, Bass Enterprises Production Company, and Amoco Production Company have been notified and have no objections to this change of plans.

If any further information is needed, please let me know.

Thank you for your attention to this matter.

Sincerely,

DINERO OPERATING COMPANY

Lavonda Norman Production Supervisor

/1n

Enclosure

LOUIS BEIQUE CONSULTING GEOLOGIST 328 MID-AMERICA BLDG. MIDLAND, TEXAS 79701

May 23, 1984

Mr. Russell Ramsland Dinero Operating Co. P. O. Box 10505 Midland, Texas 79702

Re: Dublin Ranch Field Eddy County, New Mexico

Dear Russell:

This report is to supplement the report of Lorin Rulla on the above field area, dated April 20, 1981.

Three sections owned by Dinero in the field are under pressure for further development, either because of negligible production, or because of proration unit size.

Section 16, 22-28:

A study of the Atoka Sands show that a location in the SE/4 of Section 16 has very good possibility of obtaining production from this horizon.

Coing to the Morrow A & B Sands, this location also shows excellent possibility of obtaining production in these sands.

The lower Morrow map shows that a SE/4 Section 16, 22-28, has also excellent possibilities. It is therefore recommended that a well be drilled in SE/4 Section 16, 22-28, to replace the #1 Dinero State to re-establish production in that section.

Section 21, 22-28:

The well in this section, Big Chief #3, is presently producing from the Atoka Sands. A second location, in the NE/4 of Section 21, 22-28, could also establish production in the Atoka Sands.

The Morrow A & B Sands are thin in that area; however, stray sands can come in, in any location drilled in the upper Morrow, so these are still a good prospective horizon.

The Lower Morrow, however, shows excellent possibilities, as the Big Chief #3 was potentialed for 3.5 mmcf in that interval, but production was never regained after being shut in. Mr. Russell Ramsland May 23, 1984 Page 2

So a NE/4 location in Section 21, 22-28, is recommended both for Atoka and lower Morrow as primary objectives and Morrow A & B Sands for secondary objectives.

Section 27, 22-28: This section shows two producers in the W/2 of Section 27, the Little Squaw #1 & #2 wells.

The Little Squaw #2 is not producing economically at this time. Some suggestions have been made to whipstock the well to re-establish production; however, from the study presented here, only the Morrow A & B Sands show any promise of good production; this well, however, could be directionally drilled to a NE direction for this purpose.

If a new well should be drilled, it should be placed in the NE/4 of Section 27, 22-28, for optimum results. There, the Atoka Sands show a good potential, and the upper lower Morrow sands show a very good section in the Little Squaw #1, which was probably damaged by drilling fluids, and tested negatively.

This brings up the subject of formation damage. Morrow sands are extremely subjective to drilling fluids damage and, once damaged, are seldom recovered. So it is suggested here that the replacement wells be drilled to the Atoka as the primary objective. Deplete the Atoka sands formation, and when these are no longer economical, squeeze the Atoka zones and then drill the Morrow sands with gas. This would give a constant test as the well is drilled, and it has been the experience of this writer that a Morrow well never did show on production test the same volume previously obtained by drill stem test; this shows that formation damage, however precaution one takes, is forever present. By drilling the Morrow formation with gas, no damage should ensue. If water is encountered, it probably could be foamed out, but this water being formation water should create minimal damage.

With a long string set in the Atoka, Morrow sands could probably be produced open hole. The sands are competent enough and the shales would have been welted and should stand.

If production is encountered in the upper Morrow sections, one could deplete these sands before going to the lower horizons. This procedure might be worth looking into to get maximum gas recovery from a single bore-hole.

Yours very truly,









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

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

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

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

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LORIN J. RULLA GEOLOGIST 207 WEST BUILDING 401 NORTH COLORADO MIDLAND, TEXAS 79701

TELEPHONE: 684-7666 AREA CODE: 915 RESIDENCE: 682-7239

April 20, 1981

Mr. Russell Ramsland Dinero Operating Company Chancellor Building Midland, Texas 79701

Dear Russell:

I have made a geologic evaluation of the Dublin Ranch Field Area in southeastern Eddy County, New Mexico. My conclusions and recommendations are presented below.

Morrow Sands

The Morrow Sand interval is approximately 650 feet thick in the Dublin Ranch Area and several individual sands produce gas in commercial quantities in developed portions of the field. By analogy with nearby areas, the Morrow Sands are believed to be a series of super-imposed beach, bar and channel sands, interbedded carbonates, and marine and non-marine shales. Stratigraphic relationships are thus very complex, making it difficult to map individual Morrow Sand units.

I have therefore subdivided the Morrow interval into four sub-units labeled A, B, C and D on the enclosed cross sections. A thickness map of the net "clean" sand within each of the sub-units was constructed. Each thickness map shows the number of net feet of sand exhibiting less than 30 API units on the gamma ray curve of logs on each well.

The thickness maps of Morrow Zones B, C and D indicate that undrilled northwest portions of the Dublin Ranch Unit should contain sands similar to those penetrated in the Big Chief and Little Squaw leases to the southeast.

The Morrow Sands in the Dublin Ranch Field generally exhibit relatively low permeability and porosity but these sands have proven to be an economic venture in the No. 1 Big Chief and No. 1 Little Squaw. Several potential pay sands have not been perforated in other existing wells.

Drill stem tests and production histories of several wells in the unit indicate that Morrow Sands are subject to formation damage/during drilling and completion. Special care should be taken to avoid this in future wells. Mr. Russell Ramsland Dinero Operating Company Page 2 April 20, 1981

Atoka Sands

Atoka Sands are believed to be a series of bar and channel deposits locally exhibiting good porosity and permeability on mechanical logs. These sands flowed gas during drilling operations in several of the current Morrow producers. Units labeled Atoka "A" Sand and Atoka "B" Sand on the cross sections are of particular interest. The enclosed isopach maps of gross sand within each of these intervals, as well as stratigraphic relationships, indicate that the Atoka "A" Sand and the Atoka "B" Sand are channel deposits trending perpendicular to stratigraphic strike. Atoka channel sands, while relatively difficult to locate from an exploratory standpoint, appear to offer extremely good potential for additional gas production.

Bone Spring

Delta Drilling Company has made several Bone Spring oil completions in their Culebra Bluff Unit, located five miles south of the Dublin Ranch Field. Production comes from both argillaceous carbonates and argillaceous sands of the Bone Spring Formation. Some of the sands appear to be very radioactive on mechanical logs. The completed interval is variable from well to well, generally consisting of thin fractured zones spanning depths from 6400 to 9500 feet. Mechanical logs indicate very little porosity, and production rates are quite variable. The Delta Drilling Company No. 4-A Culebra Bluff Unit produced approximately 3200 barrels of oil and 3 million cubic feet of gas per month, and prolific oil producers have been completed in nearby areas.

The No. 1 and No. 4 Big Chief penetrated shows of oil and gas in drill cuttings from this horizon and the No. 1 Little Squaw surfaced gas and mud while drilling. Drill cuttings and gas analyses should be carefully examined through the intervals 6200 to 9800 feet on any subsequent wells to determine possible pay zones. Wells on the Big Chief and Little Squaw leases should be perforated and tested opposite the Bone Spring interval before abandonment.

Delaware Sands

Sands within the Delaware Mountain Group produce oil at Indian Draw Field, located one mile west of the Dublin Ranch Unit, at Indian Flats Field, two and one-half miles north of the unit, and at Herradura Bend Field, located one mile southwest. Indian Draw and Indian Flats Fields produce from Cherry Canyon Sands, while Herradura Bend Field produces from the Ramsey Sand.

A structure map (Top Delaware Lime) and a thickness map of net sand greater than 15% porosity in Indian Draw Field (both maps enclosed) show the production to be controlled by an updip pinchout of porosity across a slight structural nose. The Indian Draw pay sand is believed to have been deposited in relatively deep water as a turbidity flow, and appears similar to a channel on the sand thickness map.

Mr. Russell Ramsland Dinero Operating Company Page 3 April 20, 1981

Subsurface control indicates a possible sand lens similar to the Indian Draw pay in the Dublin Ranch Area. Several wells on the Big Chief and Little Squaw leases were extensively side-wall cored through the porous Cherry Canyon lands. Core analysis showed good porosity and permeability but no shows of oil. A location northwest, updip from this immediate area, may prove productive from this pay. The Perry R. Bass No. 68 Big Eddy Unit, located in the southwest quarter of Section 10, T-22-S, R-28-E, recovered a good show of oil on a drill stem test of this approximate interval. The drill stem test 3698 to 3735 feet, open 135 minutes, surfaced gas after fifteen minutes. Recovery was six barrels of oil, four barrels of oil and gas-cut mud, and six barrels of heavily gas-cut and slightly oil-cut salt water (135,000 PPM). Thirty minute initial shut in pressure was 1758 pounds, flow pressures were 140 and 682 pounds, and 270 minute final shut in pressure was 1716 pounds. Logs are currently not available on this well.

Both the Upper Delaware and Cherry Canyon Sands should be considered as possible pay horizons in future drilling activity. Drill cutting should be carefully examined and drill stem tests run where warranted.

Deeper Pay Horizons

Both the Siluro-Devonian and the Ellenburger should be considered as potential pays on structure in the area of interest. An isopach map from the Atoka "marker" to the top of the Chester shows a strong nose over the Dublin Ranch Area, indicating early Pennsylvanian structural movement. Nearest Siluro-Devonian production occurs at Shugart Field, approximately twenty miles northwest. Wells located west and southwest of the Dublin Ranch unit generally have recovered fresh water from the Siluro-Devonian.

The Shell Oil Company No. 1 Big Eddy Unit, located in Section 36, T-21-S, R-28-E, recovered 2700 feet of slightly gas-cut mud, 450 feet of salt water-cut mud, and 720 feet of mud and slightly gas-cut salt water. A second test recovered 630 feet of salt water-cut mud and 180 feet of muddy salt water (35,000 PPM).

The Texaco, Inc. No. 1 Cotton Draw Unit, located in Section 2, T-25-S, R-31-E, fifteen miles south of the subject area, flowed gas at a rate of 5.5 to 6 MMCF/ GPD and salt water at a rate of five barrels per hour from the Siluro-Devonian, and reported small shows of gas from the Ellenburger. The Ellenburger is estimated to be from 200 to 600 feet thick in the Dublin Ranch Area.

Yours very truly, Rulla

LORIN J. RULLA

LJR/dba Enclosures

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DINERO P. O. DRAWER 10505 MIDLAND, TEXAS 79702

August 1, 1984

State of New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

RE: Non-Standard Well Location 660' FSL & 660' FEL, Sec. 16, T-22-S, R-28-E, Eddy County, New Mexico

Gentlemen:

We wish to apply for a non-standard location to bring the proposed well within the boundaries of the targeted reservoirs, (Atoka and Morrow). We believe that the standard location would place us outside of the commercially desirable reservoir boundaries. We feel if this request is granted it will provide maximum production from the reservoirs and that this is in the best interest of all parties concerned.

In compliance with the New Mexico State Rules for administrative approval of non-standard well locations, I have notified all offset operators by certified mail. The off-set operators to this requested location are Amoco Production Company and Bass Enterprises Production Company.

If there are any questions concerning this application, please notify the undersigned or our Land Manager, Jim Dewey, at the above stated location.

Very truly yours,

DINERO OPERATING COMPANY

Lavonda Norman Production Supervisor

/ln

Enclosure

N DIVISION ase 83 Dismiss will change le

EXHIBIT "A"

The following are off-set Operators to the proposed non-standard location requested by Dinero Operating Company for the Dinero State Comm. No. 2 Well which will be in Section 16, T-22-S, R-28-E, 660 feet from both the South and East lines, Eddy County, New Mexico:

- Bass Enterprises Production Company First City Bank Tower
 201 Main Street
 Fort Worth, Texas 76102
- 2. Amoco Production Company Attn: Doris Walkoviak Post Office Box 3092 Houston, Texas 77253

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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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