



MIDLAND PARTNERS
 CARLTON BEAL
 CARLTON BEAL, JR.
 BARRY BEAL
 SPENCER BEAL
 KELLY BEAL

BTA OIL PRODUCERS
 104 SOUTH PECOS
 MIDLAND, TEXAS 79701
 AC 915-682-3753

ROCKY MOUNTAIN DIVISION
 555-17TH STREET
 SUITE 835
 DENVER, CO 80202
 AC 303-292-9299

DENVER PARTNER
 BARRY BEAL, JR.

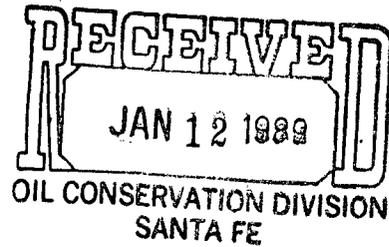
January 11, 1989

1/17/89 - Keith Logan is sending waiver and some production for Morrow Zone

Re: Application for Unorthodox Location
 BTA - Brian, 8036 JV-P
 Well No. 1
 Antelope Ridge (Atoka-Morrow)
 1980' FSL & 990' FWL
 Sec. 11, T-23-S, R-34-E
 Lea Co., New Mexico

STATE OF NEW MEXICO
 Energy & Minerals Dept.
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay



Gentlemen:

BTA hereby requests administrative approval to drill at the above referenced unorthodox location, in order to minimize geologic risk and prevent drainage from an offset well which also is an unorthodox location. Our primary objective is the Atoka formation with the Morrow being a secondary source of reserves.

As the enclosed map illustrates, a fairway of commercial reserves (wells with greater than 3 BCF ultimate recovery) from the Atoka formation shows a legal location to be on the edge of the fairway. Moving over to our proposed location would significantly reduce geologic risk. Also, the well located on our proration unit (The Amoco State ME No. 1-Y) had very little porosity, only made 25 MMCF, and was definitely not in this fairway.

- Keith Logan contact person w/ BTA

Page -2-
BTA-Brian, 8036 JV-P
Unorthodox Location

The Estoril Belco Federal No. 2 was completed as an Atoka well at a location 990' FEL & 660' FSL of Section 10, T-23-S, R-34-E. Our well would be the same distance from the end boundary as this well. Approval of our location would help offset drainage from this well.

All offset operators have been notified of our application by certified mail and waivers have been requested.

Please advise should further information be required to grant this application.

Sincerely,


DOROTHY HOUGHTON
For BTA Oil Producers

KL/DH/as
xc: OCD - Hobbs

Attachment - C-101
C-102
Map



BTA OIL PRODUCERS

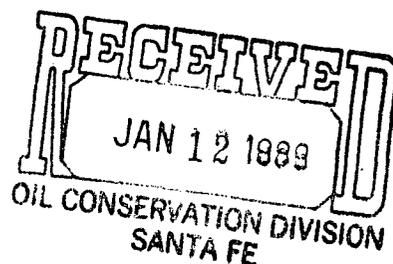
OFFSET OPERATOR LIST

Brian, 8036 JV-P
Well No. 1
S/2 Sec. 11, T-23-S, R-34-E
Lea County, New Mexico

NW/4 Sec. 14 -	✓ Terra Resources, Inc. 10 Desta Drive, Suite 500 West Midland, Texas 79705 Attn: Kevin Pfister
NE/4 Sec. 15 & - S/2 SE/4 Sec. 10	✓ Estoril Production Corporation 400 W. Illinois, Suite 1600 Midland, Texas 79701 Attn: Flynt Chancellor
E/2, NE/4 & - NE/4, SE/4, Sec. 10	✓ J.C. Williamson P.O. Box 16 Midland, Texas 79702 Attn: Brenda Byrne
Sec. 13 -	✓ Yates Petroleum Corporation 105 S. 4th Street Artesia, New Mexico 88210 Attn: Randy G. Patterson
Sec. 12 -	Unleased Acreage

I hereby certify the above were mailed copies of our application by certified mail on January 9, 1989.


DOROTHY HOUGHTON
For BTA Oil Producers



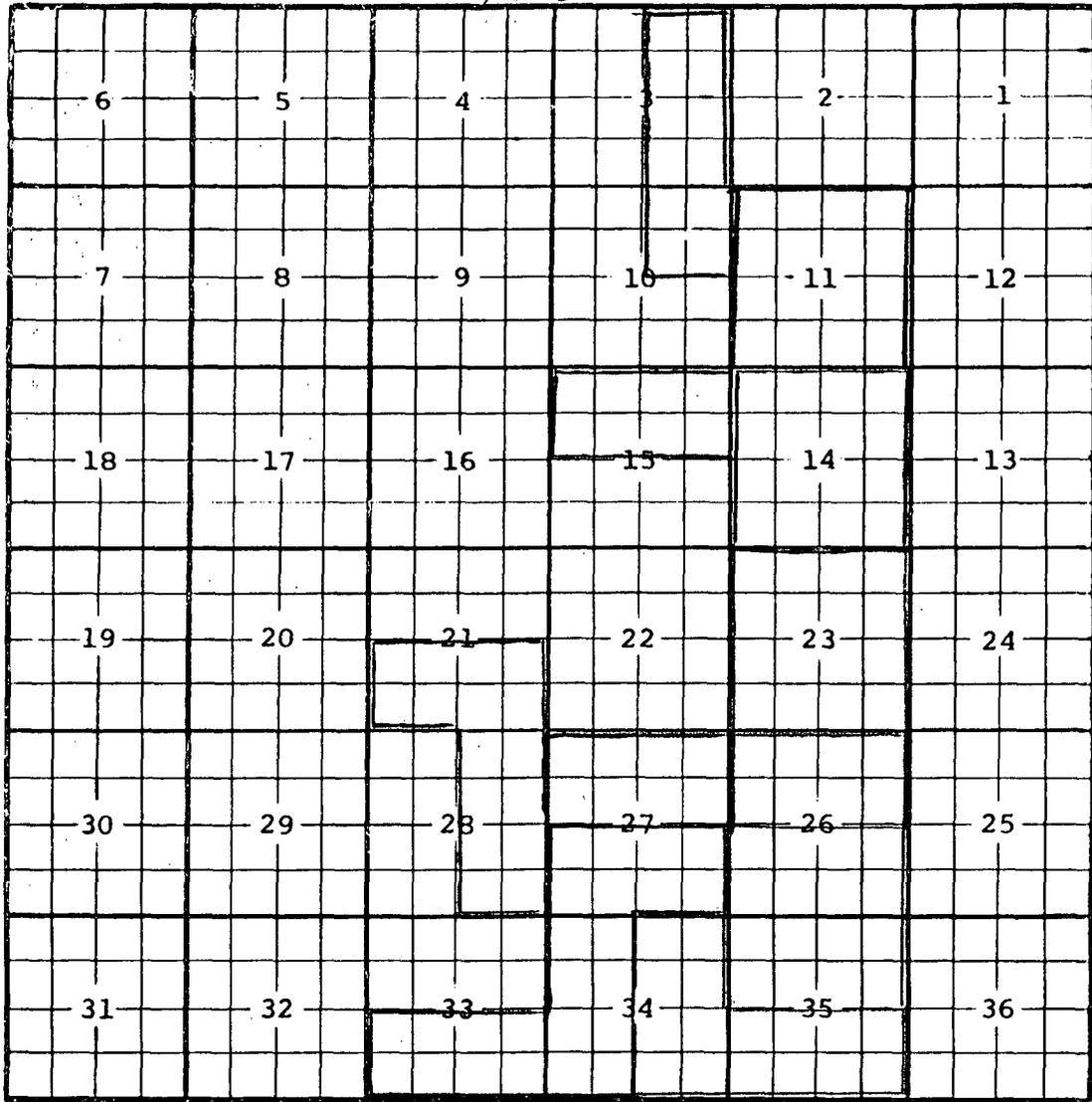
COUNTY *Lea*

POOL *Antelope Ridge-Morrow Gas*

TOWNSHIP *23 South*

RANGE *34 East*

NMPM



Ext: $\frac{S}{2}$ Sec 27; $\frac{S}{2}$ Sec 33; $\frac{W}{2}$ Sec 34 (R-3218, 5-1-67)

Ext: $\frac{S}{2}$ Sec 35, $\frac{E}{2}$ Sec 34 (R-4743, 4-1-74)

Ext: $\frac{S}{2}$ Sec 21, $\frac{E}{2}$ Sec 28 (R-4861, 11-1-74)

Ext: $\frac{S}{2}$ Sec 26, $\frac{N}{2}$ Sec 35 (R-5143, 2-1-76)

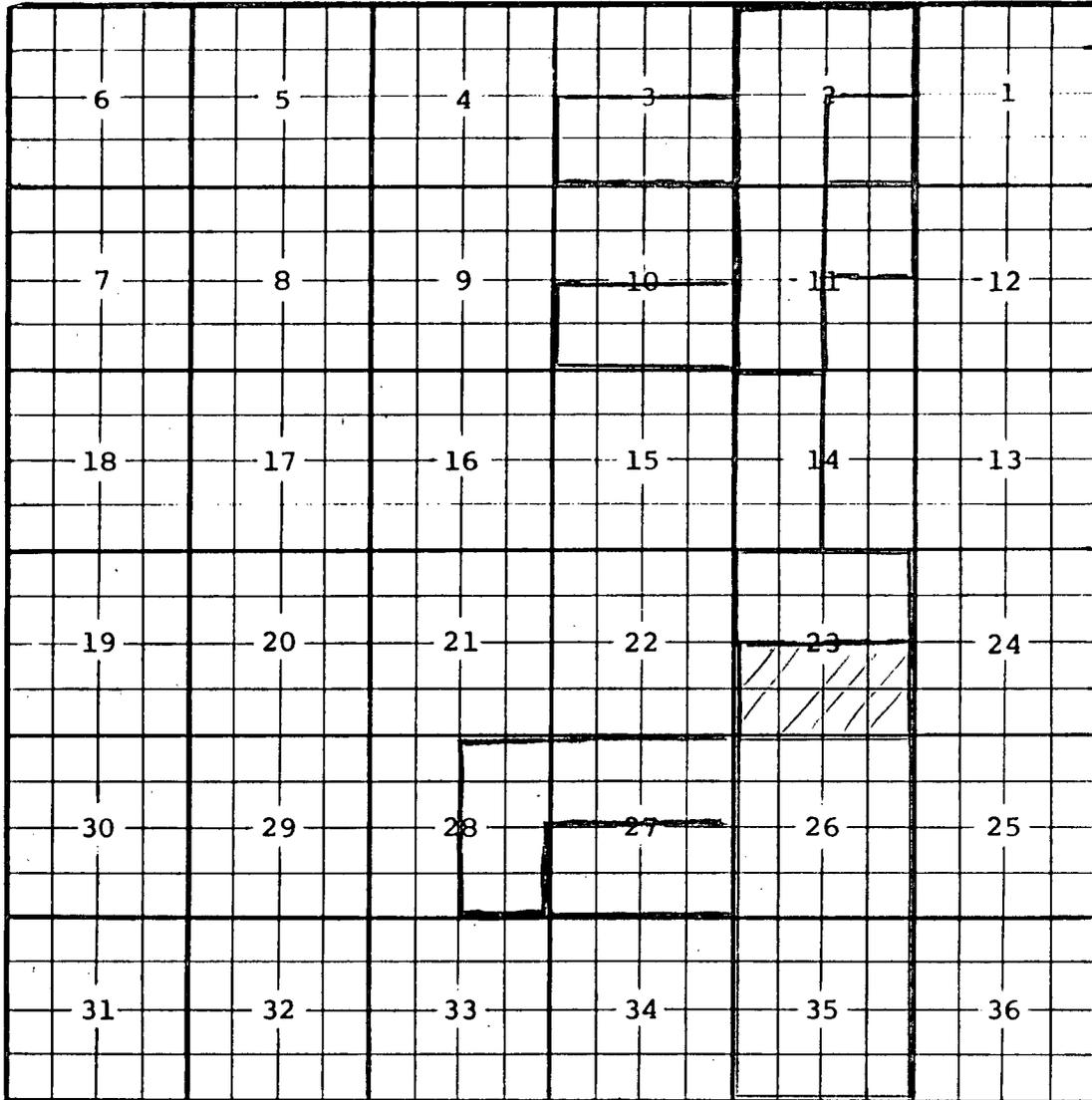
Ext: $\frac{N}{2}$ Sec 26 (R-5988, 5-1-79) Ext: All Sec. 23 (R-6274, 3-1-80)

Ext: All Sec. 14 (R-6576, 2-10-81) Ext: $\frac{N}{2}$ sec 7 (R-6758, 8-26-81)

Ext: All Sec. 11, $\frac{N}{2}$ Sec. 15 (R-6838, 11-8-81) EXT: $\frac{E}{2}$ SEC. 3, $\frac{NE}{4}$ SEC. 10 (R-8584 11/1/88)

County Lea Pool Antelope Ridge - Atoka Gas

TOWNSHIP 23 South Range 34 East NMPM



Ext: All Secs 26 & 35 (R-5729, 6-1-78) Ext: $\frac{3}{4}$ Sec 23 (R-6170, 11-1-79) Ext: $\frac{1}{2}$ Sec. 23 (R-6274, 3-1-80)
 Ext: $\frac{1}{2}$ Sec. 14 (R-6576, 2-10-81) Ext: $\frac{1}{2}$ & NE $\frac{1}{4}$ sec 2, $\frac{1}{2}$ sec 11 (R-6724, 7-16-81) Ext: $\frac{1}{2}$ sec 27, E $\frac{1}{2}$ sec 28 (R-6890, 1-2-82)
 Ext: $\frac{5}{8}$ Sec. 27 (R-7279, 5-17-83) Ext: $\frac{3}{4}$ Sec. 10 (R-7334, 8-19-83)
 Ext: $\frac{3}{4}$ Sec. 3 (A-7372, 10-20-83) Ext: SE $\frac{1}{4}$ Sec. 2 (A-7502, 4-20-84)
 EXT: NE $\frac{1}{4}$ SEC 11 (R-8668, 6/10/88)

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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

CASE NO. 7581
Order No. R-7008

APPLICATION OF ESTORIL PRODUCING
CORP. FOR AN UNORTHODOX GAS WELL
LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on May 12, 1982, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 11th day of June, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Estoril Producing Corp., seeks approval of an unorthodox gas well location 660 feet from the South line and 990 feet from the East line of Section 10, Township 23 South, Range 34 East, NMPM, to test the Morrow formation, Antelope Ridge-Morrow Gas Pool, Lea County, New Mexico.
- (3) That the S/2 of said Section 10 is to be dedicated to the well.
- (4) That due to topography, the location would have to have been moved approximately 350 feet east of a standard location 1980 feet from the East line of said Section 10.
- (5) That the primary purpose for seeking the proposed location 990 feet from the East line is to achieve a more favorable position geologically.

(6) That the offset operators both to the East and Southeast appeared and objected to the proposed unorthodox location.

(7) That unrestricted production from a well at the proposed location would result in drainage across lease lines which would not be compensated for by counter drainage.

(8) That such uncompensated drainage would result in violation of correlative rights and injury to the leases of the objecting offset operators.

(9) That to protect correlative rights and to prevent injury to said leases, the production from the well at the proposed unorthodox location should be limited from the Morrow formation.

(10) That the well at the proposed location is 50 percent closer to the East line of said Section 10 than permitted by the rules and regulations governing Morrow formation gas wells in Lea County.

(11) That the well at the proposed location will have a theoretical area of drainage in the Morrow formation which extends 65 net acres into leases operated by the objecting offset operators, or 20 percent more than a well located at a standard location in said formation.

(12) That the production limitation referred to in Finding No. (9) above should be based upon the variation of the location from a standard location and the 20 net-acre encroachment described in Finding No. (11) above, and may best be accomplished by assigning the well at the proposed location a production limitation factor of 0.65 (50 percent location factor plus a 20 percent net-acre encroachment factor divided by 2 subtracted from a 100 percent production factor).

(13) That in the absence of any special rules and regulations for the prorationing of production from the Morrow formation in which the subject well is completed, the aforesaid production limitation factor should be applied against said well's ability to produce into the pipeline as determined by periodic well tests.

(14) That the minimum calculated allowable for the subject well should be reasonable, and 1,000,000 cubic feet of gas per day is a reasonable figure for such minimum allowable.

(15) That approval of the subject application subject to the above provisions and limitations will afford the applicant

the opportunity to produce its just and equitable share of the gas in the subject reservoir, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That Estoril Producing Corp. is hereby authorized an unorthodox Morrow formation gas well location for a well to be drilled at a point 660 feet from the South line and 990 feet from the East line of Section 10, Township 23 South, Range 34 East, NMPM, Lea County, New Mexico.

(2) That the S/2 of said Section 10 shall be dedicated to the above-described well.

(3) That said well is hereby assigned a Production Limitation Factor of 0.65 in the Morrow formation.

(4) That in the absence of any Special Rules and Regulations prorating gas production in said Morrow formation in which applicant's well is completed, the Special rules hereinafter promulgated shall apply.

(5) That the following Special Rules and Regulations for a non-prorated gas well at an unorthodox location shall apply to the subject well:

SPECIAL RULES AND REGULATIONS
FOR THE
APPLICATION OF A "PRODUCTION LIMITATION FACTOR"
TO A NON-PRORATED GAS WELL

APPLICATION OF RULES

RULE 1. These rules shall apply to the Estoril Producing Corporation Morrow formation gas well to be located 660 feet from the South line and 990 feet from the East line of Section 10, Township 23 South, Range 34 East, NMPM, Lea County, New Mexico, which well's Production Limitation Factor of 0.65 shall be applied to the well's deliverability (as determined by the hereinafter set forth procedure) to determine its maximum allowable rate of production.

ALLOWABLE PERIOD

RULE 2. The allowable period for the subject well shall be six months.

RULE 3. The year shall be divided into two allowable periods commencing at 7:00 o'clock a.m. on January 1 and July 1.

DETERMINATION OF DELIVERY CAPACITY

RULE 4. Immediately upon connection of the well the operator shall determine the open flow capacity of the well in accordance with the Division "Manual for Back-Pressure Testing of Natural Gas Wells" then current, and the well's initial deliverability shall be calculated against average pipeline pressure in the manner described in the last paragraph on Page I-6 of said test manual.

RULE 5. The well's "subsequent deliverability" shall be determined twice a year, and shall be equal to its highest single day's production during the months of April and May or October and November, whichever is applicable. Said subsequent deliverability, certified by the pipeline, shall be submitted to the appropriate District Office of the Division not later than June 15 and December 15 of each year.

RULE 6. The Division Director may authorize special deliverability tests to be conducted upon a showing that the well has been worked over or that the subsequent deliverability determined under Rule 5 above is erroneous. Any such special test shall be conducted in accordance with Rule 4 above.

RULE 7. The operator shall notify the appropriate district office of the Division and all offset operators of the date and time of initial or special deliverability tests in order that the Division or any such operator may at their option witness such tests.

CALCULATION AND ASSIGNMENT OF ALLOWABLES

RULE 8. The well's allowable shall commence upon the date of connection to a pipeline and when the operator has complied with all appropriate filing requirements of the Rules and Regulations and any special rules and regulations.

RULE 9. The well's allowable during its first allowable period shall be determined by multiplying its initial deliverability by its production limitation factor.

RULE 10. The well's allowable during all ensuing allowable periods shall be determined by multiplying its latest subsequent deliverability, as determined under provisions of Rule 5, by its production limitation factor. If the well shall not have been producing for at least 60 days prior to the end of its first

allowable period, the allowable for the second allowable period shall be determined in accordance with Rule 9.

RULE 11. Revision of allowable based upon special well tests shall become effective upon the date of such test provided the results of such test are filed with the Division's district office within 30 days after the date of the test; otherwise the date shall be the date the test report is received in said office.

RULE 12. Revised allowables based on special well tests shall remain effective until the beginning of the next allowable period.

RULE 13. In no event shall the well receive an allowable of less than 1,000,000 cubic feet of gas per day.

BALANCING OF PRODUCTION

RULE 14. January 1 and July 1 of each year shall be known as the balancing dates.

RULE 15. If the well has an underproduced status at the end of a six-month allowable period, it shall be allowed to carry such underproduction forward into the next period and may produce such underproduction in addition to its regularly assigned allowable. Any underproduction carried forward into any allowable period which remains unproduced at the end of the period shall be cancelled.

RULE 16. Production during any one month of an allowable period in excess of the monthly allowable assigned to the well shall be applied against the underproduction carried into the period in determining the amount of allowable, if any, to be cancelled.

RULE 17. If the well has an overproduced status at the end of a six-month allowable period, it shall be shut in until such overproduction is made up.

RULE 18. If, during any month, it is discovered that the well is overproduced in an amount exceeding three times its average monthly allowable, it shall be shut in during that month and during each succeeding month until it is overproduced in an amount three times or less its monthly allowable, as determined hereinabove.

RULE 19. The Director of the Division shall have authority to permit the well, if it is subject to shut-in pursuant to Rules 17 and 18 above, to produce up to 500 MCF of gas per month

upon proper showing to the Director that complete shut-in would cause undue hardship, provided however, such permission shall be rescinded for the well if it has produced in excess of the monthly rate authorized by the Director.

RULE 20. The Division may allow overproduction to be made up at a lesser rate than permitted under Rules 17 or 18 above upon a showing that the same is necessary to avoid material damage to the well.

GENERAL

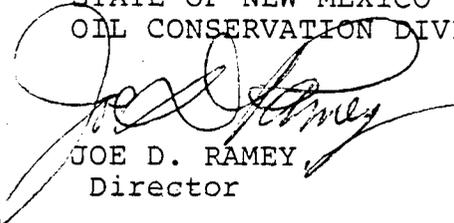
RULE 21. Failure to comply with the provisions of this order or the rules contained herein or the Rules and Regulations of the Division shall result in the cancellation of allowable assigned to the well. No further allowable shall be assigned to the well until all rules and regulations are complied with. The Division shall notify the operator of the well and the purchaser, in writing, of the date of allowable cancellation and the reason therefor.

IT IS FURTHER ORDERED:

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

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director

S E A L

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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

CASE NO. 7915
Order No. R-7008-A

APPLICATION OF ESTORIL PRODUCING
CORP. FOR AN UNORTHODOX GAS WELL
LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 20, 1983, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 17th day of August, 1983, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Estoril Producing Corp., seeks approval of an unorthodox gas well location for its Belco Federal Well No. 2 drilled 660 feet from the South line and 990 feet from the East line of Section 10, Township 23 South, Range 34 East, NMPM, for the Atoka formation, Antelope Ridge Field, Lea County, New Mexico.

(3) That the S/2 of said Section 10 is to be dedicated to the well.

(4) That said well was drilled at the stated unorthodox gas well location as a Morrow test under the terms of Division Order No. R-7008, entered June 11, 1983.

(5) That the Morrow formation was found to be non-commercial and the well was plugged back and completed in the Atoka formation.

(6) That said Order No. R-7008 should be amended to permit said unorthodox well location in the Atoka and Morrow formations.

(7) That offset operators objected to the proposed unorthodox location for the Morrow formation and Order No. R-7008 was written to include a production limitation factor to offset any advantage gained as a result of the well location.

(8) That one such offset operator appeared and objected to the proposed unorthodox location in the Atoka formation also.

(9) That to protect correlative rights, the production from said well should be limited from the Atoka formation in the same manner as provided for the Morrow formation under provisions of said Order No. R-7008.

(10) That Order (1), Order (3), Order (4), and RULE 1 of the Special Rules and Regulations for the Application of a "Production Limitation Factor" to a Non-Prorated Gas Well contained in said Order No. R-7008 should each and all be amended to reflect the Atoka and Morrow formations.

(11) That approval of the subject application subject to the above provisions and limitations will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject reservoir, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That Order (1), Order (3), Order (4), and RULE 1 of the Special Rules and Regulations for the Application of a "Production Limitation Factor" to a Non-Prorated Gas Well contained in Division Order No. R-7008 entered June 11, 1982, are hereby amended to read in their entirety as follows:

"(1) That Estoril Producing Corp. is hereby authorized an unorthodox Atoka and Morrow formation gas well location for a well to be drilled at a point 660 feet from the South line and 990 feet from the East line of Section 10, Township 23 South, Range 34 East, NMPM, Lea County, New Mexico.

(3) That said well is hereby assigned a Production Limitation Factor of 0.65 in the Atoka and Morrow formations.

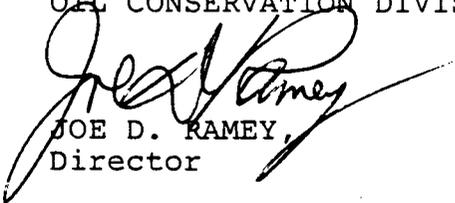
(4) That in the absence of any Special Rules and Regulations prorating gas production in said Atoka and Morrow formations in which applicant's well is completed, the Special rules hereinafter promulgated shall apply.

RULE 1. These rules shall apply to the Estoril Producing Corporation Atoka and/or Morrow formation gas well to be located 660 feet from the South line and 990 feet from the East line of Section 10, Township 23 South, Range 34 East, NMPM, Lea County, New Mexico, which well's Production Limitation Factor of 0.65 shall be applied to the well's deliverability (as determined by the hereinafter set forth procedure) to determine its maximum allowable rate of production."

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

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY,
Director

S E A L



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
 OIL CONSERVATION DIVISION
 HOBBS DISTRICT OFFICE

1-13-89

GARREY CARRUTHERS
 GOVERNOR

POST OFFICE BOX 1980
 HOBBS, NEW MEXICO 88241-1980
 (505) 393-6161

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

RE: Proposed:
 MC _____
 DHC _____
 NSL _____
 NSP _____
 SWD _____
 WFX _____
 PMX _____



Gentlemen:

I have examined the application for the:

BTA oil Producers Brian 8036 JV-P #1-L 11-23-34
 Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

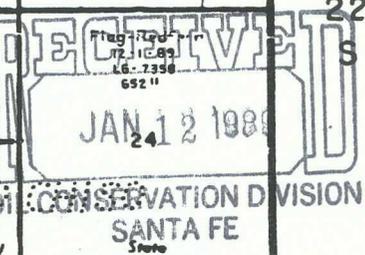
OK

Yours very truly,

Jerry Sexton
 Jerry Sexton
 Supervisor, District 1

/ed

<p>Expi 83</p> <p>entral 1ery 70 4155</p> <p>State, MI 1 Marchant Live Stock Co.</p> <p>Syrupy Mid-Cont. State 70 250 0A 2-26-52</p> <p>State U.S.</p>	<p>033312</p> <p>(Liano) 5-1-91 6 mil. Hudson, et al. 11-1-91 10A 16-16-56</p> <p>Hudson-Hudson Miller-Fed. 11-1-91 10A 16-16-56</p> <p>U.S.</p>	<p>033312</p> <p>033312</p> <p>U.S.</p>	<p>033312</p> <p>033312</p> <p>U.S.</p>	<p>033312</p> <p>033312</p> <p>U.S.</p>	<p>033312</p> <p>033312</p> <p>U.S.</p>	<p>033312</p> <p>033312</p> <p>U.S.</p>	<p>033312</p> <p>033312</p> <p>U.S.</p>
<p>J.R. Woodward 8-1-91 53964</p> <p>Belco 4-1-89 24681</p> <p>Amerada H.B.P. 8-1040</p> <p>Hudson Pet. 11-1-89 V-1268 35392</p> <p>MGF 6-1-91 43564</p> <p>43564</p> <p>Marburg, Pet. 3-1-90 60791 12722 A</p> <p>J.R. Woodward 6-1-91 55964</p> <p>U.S. MI State, S</p>	<p>17</p> <p>U.S. MI State, S</p>	<p>16</p> <p>U.S.</p>	<p>15</p> <p>U.S.</p>	<p>14</p> <p>U.S.</p>	<p>13</p> <p>U.S.</p>	<p>12</p> <p>U.S.</p>	<p>11</p> <p>U.S.</p>
<p>Peter Press 7-1-91 66272</p> <p>F.L. Engle 7-1-91 61360</p> <p>Continental 7-1-91 070544</p> <p>U.S.</p>	<p>20</p> <p>U.S.</p>	<p>21</p> <p>U.S.</p>	<p>22</p> <p>U.S.</p>	<p>23</p> <p>U.S.</p>	<p>24</p> <p>U.S.</p>	<p>25</p> <p>U.S.</p>	<p>26</p> <p>U.S.</p>
<p>L.A. Sawyer 12-1-91 63996</p> <p>Reed & Stevens 4-1-91 60883</p> <p>Cibola Ener. 4-1-94 57536</p> <p>Hudson Pet. Cibola-Fed. 19143</p> <p>MGF 6-1-91 43564</p> <p>Apache, et al. 6-1-91 48968</p> <p>MGF 6-1-91 43564</p> <p>Apache, et al. 6-1-91 43564</p> <p>U.S. MI State, S</p>	<p>29</p> <p>U.S. MI State, S</p>	<p>28</p> <p>U.S.</p>	<p>27</p> <p>U.S.</p>	<p>26</p> <p>U.S.</p>	<p>25</p> <p>U.S.</p>	<p>24</p> <p>U.S.</p>	<p>23</p> <p>U.S.</p>
<p>V.J. Duncan 6-1-91 66271</p> <p>Continental H.B.U. E-6434</p> <p>U.S.</p>	<p>32</p> <p>U.S.</p>	<p>33</p> <p>U.S.</p>	<p>34</p> <p>U.S.</p>	<p>35</p> <p>U.S.</p>	<p>36</p> <p>U.S.</p>	<p>37</p> <p>U.S.</p>	<p>38</p> <p>U.S.</p>
<p>Burmah O.E.G. 5-1-88 0587</p> <p>Conoco HBP 01244</p> <p>Burmah O.E.G. 5-1-88 0587</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>39</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>40</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>41</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>42</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>43</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>44</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>45</p> <p>U.S. MI. Frances Maddox (S)</p>
<p>Conoco 3-1-58 064881</p> <p>Conoco 3-1-58 064881</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>46</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>47</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>48</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>49</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>50</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>51</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>52</p> <p>U.S. MI. Frances Maddox (S)</p>
<p>Conoco Phillips</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>53</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>54</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>55</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>56</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>57</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>58</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>59</p> <p>U.S. MI. Frances Maddox (S)</p>
<p>Exxon 1-1-91 30046 13608 KGS</p> <p>Texaco 5-1-90 16 8304 2500 12</p> <p>Texaco 1-1-90 17 1190 1501 12</p> <p>Belco HBP 18641</p> <p>Estoril (Adobe) 18641</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>17</p> <p>U.S.</p>	<p>16</p> <p>U.S.</p>	<p>15</p> <p>U.S.</p>	<p>14</p> <p>U.S.</p>	<p>13</p> <p>U.S.</p>	<p>12</p> <p>U.S.</p>	<p>11</p> <p>U.S.</p>
<p>J.C. Williamson 18306</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>60</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>61</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>62</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>63</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>64</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>65</p> <p>U.S. MI. Frances Maddox (S)</p>	<p>66</p> <p>U.S. MI. Frances Maddox (S)</p>



8026 MAXWELL

8036 BELLA
West County D.K.

ANTELOPE PLATEAU

ESTORIL

YATES PET.

BTA

YATES PET.

T
23
S



Total Minatome Corporation

RECEIVED
OCT 26 1988
OIL CONSERVATION DIVISION
SANTA FE

WAIVER OF OBJECTION

New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

156-2619

Re: Application for Unorthodox Gas
Well Location in the S/2 of
Section 11, T23S-R34E
Lea County, New Mexico

Gentlemen:

TOTAL MINATOME CORPORATION, as an offset operator or offset owner of operating rights, has been advised of the intention of Brian H. Scarborough, d/b/a/ Brian H. Scarborough Oil & Gas Properties to drill the referenced 12,500' Atoka Test Well at a location 1980' FSL and 660' FWL of Section 11, T23S-R34E; Lea County, New Mexico. We understand that this location is closer to the boundaries of the dedicated tract than the rules specify for the Antelope Ridge Atoka Gas Pool.

This is to advise that TOTAL MINATOME CORPORATION has no objection to the granting of a permit at this location and hereby waives objection and notice of hearing on this application.

Very truly yours,

TOTAL MINATOME CORPORATION

By: *J. Kirby Barry* G.E.A.
J. Kirby Barry
Vice President, Land

Date: *October 19, 1988*

NOTE: TOTAL MINATOME CORPORATION's offset tracts lie in the NE/4 of Section 15 and the S/2 of Section 10, T23S-R34E, Lea County, New Mexico.



MIDLAND PARTNERS
CARLTON BEAL
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL

DENVER PARTNER
BARRY BEAL, JR.

BTA OIL PRODUCERS
104 SOUTH PECOS
MIDLAND, TEXAS 79701
AC 915-682-3753

ROCKY MOUNTAIN DIVISION
555-17TH STREET
SUITE 835
DENVER, CO 80202
AC 303-292-9299

January 19, 1989

RE: Application for Unorthodox Location
BTA - Brian, 8036 JV-P
Well No. 1
Antelope Ridge (Atoka-Morrow)
1980' FSL & 990' FWL
Sec. 11, T-23-S, R-34-E
Lea Co., New Mexico

STATE OF NEW MEXICO
Energy & Minerals Dept.
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. Michael Stogner

Michael,

We hereby enclose a structure map and portion of a log on the Morrow formation, per your request of yesterday.

We are also enclosing two of the waivers so far received. We have had phone contact with Estoril and Terra and expect to receive their waivers within a few days.

Should you have any further questions, please call.

Sincerely,

DOROTHY HOUGHTON
For BTA Oil Producers



DH/acs

Enclosures

Re: Application for Unorthodox Location
BTA - Brian, 8036 JV-P
Well No. 1
Antelope Ridge (Atoka-Morrow)
1980' FSL & 990' FWL
Sec. 11, T-23-S, R-34-E
Lea Co., New Mexico

STATE OF NEW MEXICO
Energy & Minerals Dept.
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

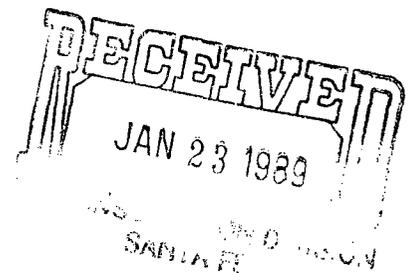
Attn: Mr. William J. LeMay

Gentlemen:

We have been advised by BTA of their application for an unorthodox location for the above referenced well. We hereby waive all objection to this application.

J.C. WILLIAMSON
Offset Operator

By: J.C. Williamson
Date: 1/12/89



Re: Application for Unorthodox Location
BTA - Brian, 8036 JV-P
Well No. 1
Antelope Ridge (Atoka-Morrow)
1980' FSL & 990' FWL
Sec. 11, T-23-S, R-34-E
Lea Co., New Mexico

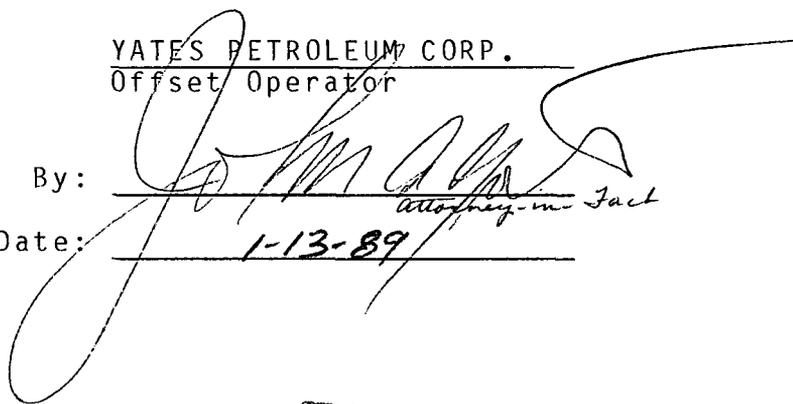
STATE OF NEW MEXICO
Energy & Minerals Dept.
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay

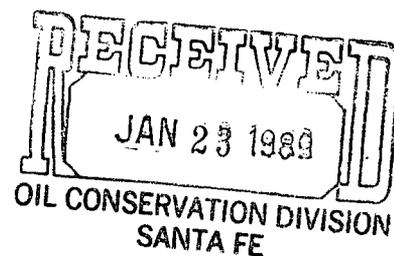
Gentlemen:

We have been advised by BTA of their application for an unorthodox location for the above referenced well. We hereby waive all objection to this application.

YATES PETROLEUM CORP.
Offset Operator

By: 
Attorney-in-Fact

Date: 1-13-89





MIDLAND PARTNERS
 CARLTON BEAL
 CARLTON BEAL, JR.
 BARRY BEAL
 SPENCER BEAL
 KELLY BEAL

BTA OIL PRODUCERS
 104 SOUTH PECOS
 MIDLAND, TEXAS 79701
 AC 915-682-3753

ROCKY MOUNTAIN DIVISION
 555-17TH STREET
 SUITE 835
 DENVER, CO 80202
 AC 303-292-9299

DENVER PARTNER
 BARRY BEAL, JR.

January 25, 1989

NSL-2619

Re: Application for Unorthodox Location
 BTA - Brian, 8036 JV-P
 Well No. 1
 Antelope Ridge (Atoka-Morrow)
 1980' FSL & 990' FWL
 Sec. 11, T-23-S, R-34-E
 Lea Co., New Mexico

STATE OF NEW MEXICO
 Energy & Minerals Dept.
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

Attn: Mr. Michael Stogner

RECEIVED
 JAN 27 1989
 OIL CONSERVATION DIVISION
 SANTA FE

Michael,

We are attaching the waivers from Estoril and Terra, the remaining two waivers required to receive administrative approval, for the above referenced unorthodox location.

Should you need further information, please give me a call.

Sincerely,

Dorothy Houghton

DOROTHY HOUGHTON
 For BTA Oil Producers

DH/acs

Enclosures

Re: Application for Unorthodox Location
BTA - Brian, 8036 JV-P
Well No. 1
Antelope Ridge (Atoka-Morrow)
1980' FSL & 990' FWL
Sec. 11, T-23-S, R-34-E
Lea Co., New Mexico

STATE OF NEW MEXICO
Energy & Minerals Dept.
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay

Gentlemen:

We have been advised by BTA of their application for an unorthodox location for the above referenced well. We hereby waive all objection to this application.

TERRA RESOURCES, INC.
Offset Operator

By: 

Date: 4/13/89

Re: Application for Unorthodox Location
BTA - Brian, 8036 JV-P
Well No. 1
Antelope Ridge (Atoka-Morrow)
1980' FSL & 990' FWL
Sec. 11, T-23-S, R-34-E
Lea Co., New Mexico

STATE OF NEW MEXICO
Energy & Minerals Dept.
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Attn: Mr. William J. LeMay

Gentlemen:

We have been advised by BTA of their application for an unorthodox location for the above referenced well. We hereby waive all objection to this application.

ESTORIL PRODUCTION CORP.
Offset Operator

By: Flint Chancellor

Date: 1/25/89

Submit to Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-101
 Revised 1-1-89

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

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

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

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease
 STATE FEE

6. State Oil & Gas Lease No.
 LG - 1025

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:
 DRILL RE-ENTER DEEPEN PLUG BACK
 b. Type of Well:
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

7. Lease Name or Unit Agreement Name
 Brian, 8036 JV-P

2. Name of Operator
 BTA OIL PRODUCERS

8. Well No.
 1

3. Address of Operator
 104 South Pecos, Midland, Texas 79701

9. Pool name or Wildcat
 Antelope Ridge

4. Well Location
 Unit Letter -L- : 1980 Feet From The South Line and 990 Feet From The West Line
 Section 11 Township 23-S Range 34-E NMPM Lea County

10. Proposed Depth
 13,500
 11. Formation
 Atoka - Morrow
 12. Rotary or C.T.
 Rotary

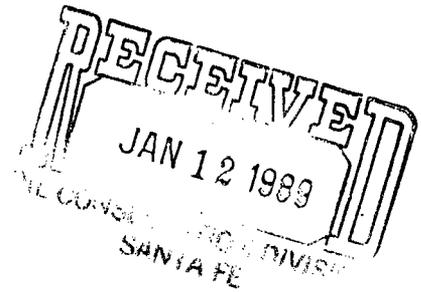
13. Elevations (Show whether DF, RT, GR, etc.)
 3,364 GR 3,384 RKB
 14. Kind & Status Plug. Bond
 Blanket
 15. Drilling Contractor
 Parker Drlg. Co.
 16. Approx. Date Work will start
 2-15-89

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
20"	16"	75#	1,700	1800 sx	Surface
14 3/4"	10 3/4"	45.5 & 51#	5,200	3200 sx	Surface
9 1/2"	7 5/8"	29.7 & 33.7#	11,700	2800 sx	3,000'
6 1/2"	5" liner	18#	11,300 - TD	350 sx	

Attached BOP Sketch. - 10,000 psi

Unorthodox Location Application



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE Dorothy Houghton TITLE Regulatory Administrator DATE 1/11/89

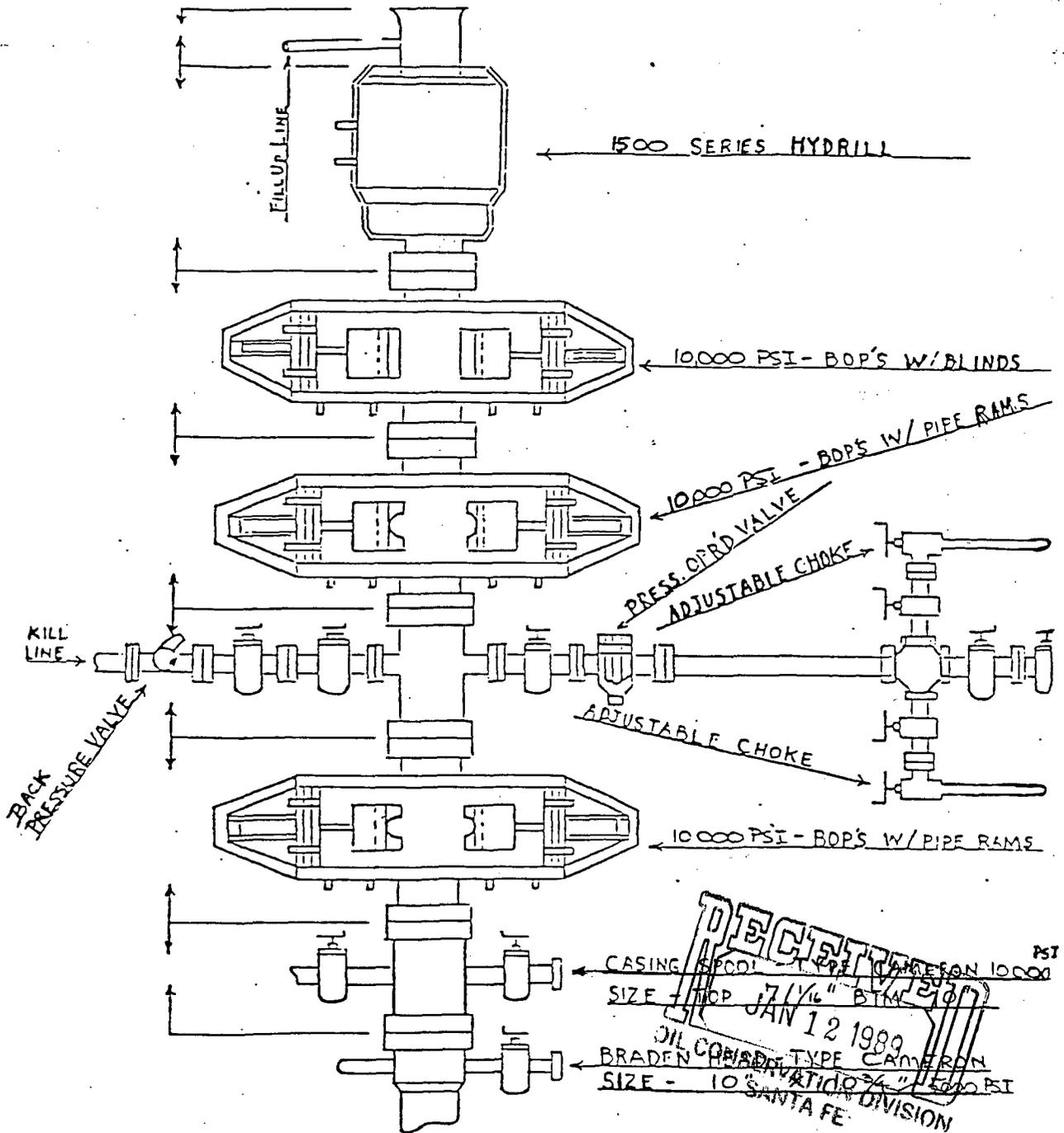
TYPE OR PRINT NAME DOROTHY HOUGHTON TELEPHONE NO. (915) 682-375

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

DRILLER'S ZERO 1ft ABOVE ROTARY TABLE



BOP Hook Up AFTER SETTING SURFACE (10 3/4") + INTERMEDIATE (7 5/8") STRINGS. ALL CONNECTIONS FROM THE SPOOL UP WILL BE TESTED TO 10,000

Brian, 8036 JV-P
 Well No. 1
 Lea County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section.

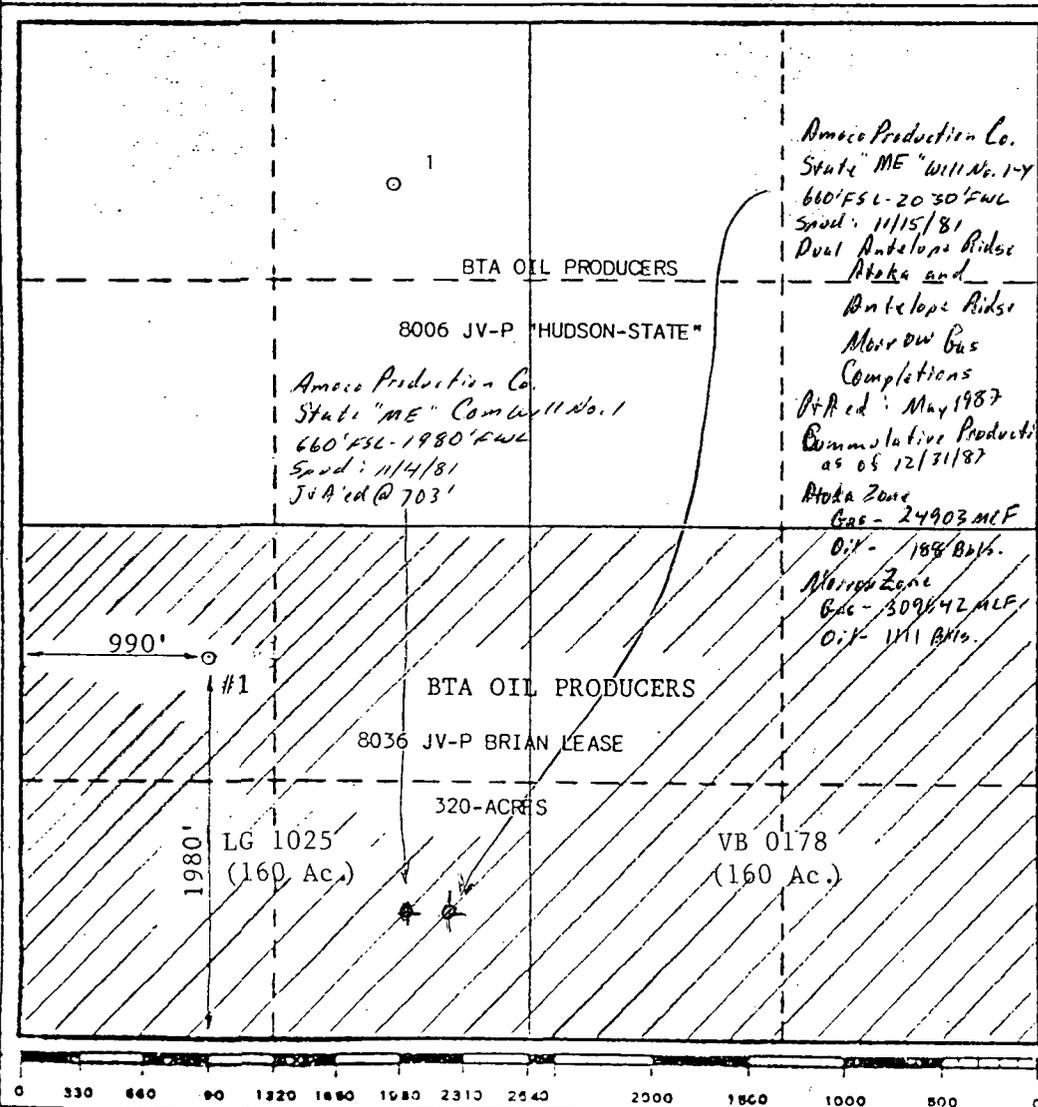
Operator BTA OIL PRODUCERS		Lease 8036 JV-P BRIAN			Well No. 1
Unit Letter "L"	Section 11	Township -23-S	Range -34-E	County LEA	
Actual Footage Location of Well: 1980 feet from the SOUTH line and 990 feet from the WEST line					
Ground Level Elev. 3364'	Producing Formation ATOKA-MORROW		Pool ANTELOPE RIDGE		Dedicated Acreage: 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Dorothy Houghton
Name
DOROTHY HOUGHTON
Position
Regulatory Administrator
Company
BTA OIL PRODUCERS
Date
1/9/89

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

JANUARY 11, 1989
Date Surveyed

Registered Professional Engineer and/or Land Surveyor
Max A. Schumann, Jr.
MAX A. SCHUMANN, JR.
Certificate No. **1510**

BTA OIL PRODUCERS

OFFSET OPERATOR LIST

Brian, 8036 JV-P
Well No. 1
S/2 Sec. 11, T-23-S, R-34-E
Lea County, New Mexico

NW/4 Sec. 14 -	Terra Resources, Inc. 10 Desta Drive, Suite 500 West Midland, Texas 79705 Attn: Kevin Pfister
NE/4 Sec. 15 & - S/2 SE/4 Sec. 10	Estoril Production Corporation 400 W. Illinois, Suite 1600 Midland, Texas 79701 Attn: Flynt Chancellor
E/2, NE/4 & - NE/4, SE/4, Sec. 10	J.C. Williamson P.O. Box 16 Midland, Texas 79702 Attn: Brenda Byrne
Sec. 13 -	Yates Petroleum Corporation 105 S. 4th Street Artesia, New Mexico 88210 Attn: Randy G. Patterson
Sec. 12 -	Unleased Acreage

I hereby certify the above were mailed copies of our application by certified mail on January 9, 1989.


DOROTHY HOUGHTON
For BTA Oil Producers



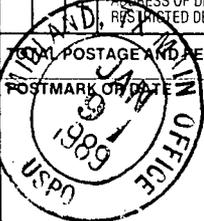
DH P05 5402377

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO	
Estoril Production Corp.	
400 W. Illinois St 1600	
Midland, TX 79701	
Attn: Flynt Chancellor	
POSTAGE	\$
CONSULT POSTMASTER FOR FEES	
CERTIFIED FEE	c
SPECIAL DELIVERY	c
RESTRICTED DELIVERY	c
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	c
SHOW TO WHOM AND DATE DELIVERED	c
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	

PS Form 3800, Apr. 1976



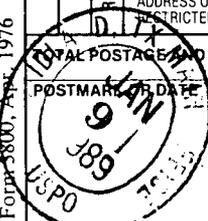
DH P05 5402378

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO	
J.C. Williamson	
P.O. Box 16	
Midland, TX 79702	
Attn: Brenda Byrne	
POSTAGE	\$
CONSULT POSTMASTER FOR FEES	
CERTIFIED FEE	c
SPECIAL DELIVERY	c
RESTRICTED DELIVERY	c
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	c
SHOW TO WHOM AND DATE DELIVERED	c
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	

PS Form 3800, Apr. 1976



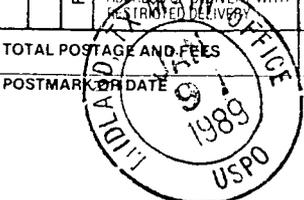
DH P05 5402380

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO	
Yates Petroleum Corp.	
105 S. 4th St.	
Artesia, N.M. 88210	
Attn: Randy Patterson	
POSTAGE	\$
CONSULT POSTMASTER FOR FEES	
CERTIFIED FEE	c
SPECIAL DELIVERY	c
RESTRICTED DELIVERY	c
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	c
SHOW TO WHOM AND DATE DELIVERED	c
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	

PS Form 3800, Apr. 1976



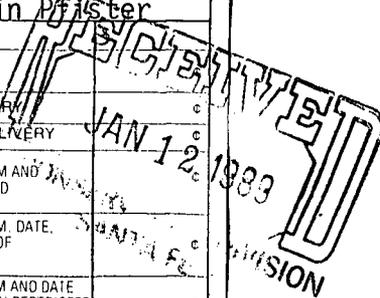
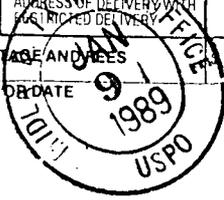
DH P05 5402374

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO	
Terra Resources Inc.	
10 Desta Dr, Ste 500 West	
Midland, TX 79705	
Attn: Kevin Pfister	
POSTAGE	\$
CONSULT POSTMASTER FOR FEES	
CERTIFIED FEE	c
SPECIAL DELIVERY	c
RESTRICTED DELIVERY	c
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	c
SHOW TO WHOM AND DATE DELIVERED	c
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	

PS Form 3800, Apr. 1976



PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.
 Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.
 2. Restricted Delivery.

3. Article Addressed to:
 J.C. Williamson
 P.O. Box 16
 Midland, TX 79702
 Attn: Brenda Byrne

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P05 5402378

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X

6. Signature - Agent
 X *Donny Boyd*

7. Date of Delivery
 JAN 10 1989

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

July 1983 447-845

available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.
 2. Restricted Delivery.

3. Article Addressed to:
 Estoril Production Corp.
 400 W. Illinois, Suite 1600
 Midland, TX 79701
 Attn: Flynt Chancellor

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P05 5402377

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X

6. Signature - Agent
 X *L. Branch*

7. Date of Delivery
 1-10-89

8. Addressee's Address (ONLY if requested and fee paid)
 400 W. Ill.
 Suite 1600

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.
 Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.
 2. Restricted Delivery.

3. Article Addressed to:
 Yates Petroleum Corp.
 105 S. 4th
 Artesia, N.M. 88210
 Attn: Randy Patterson

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P05 5402380

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X *[Signature]*

6. Signature - Agent
 X

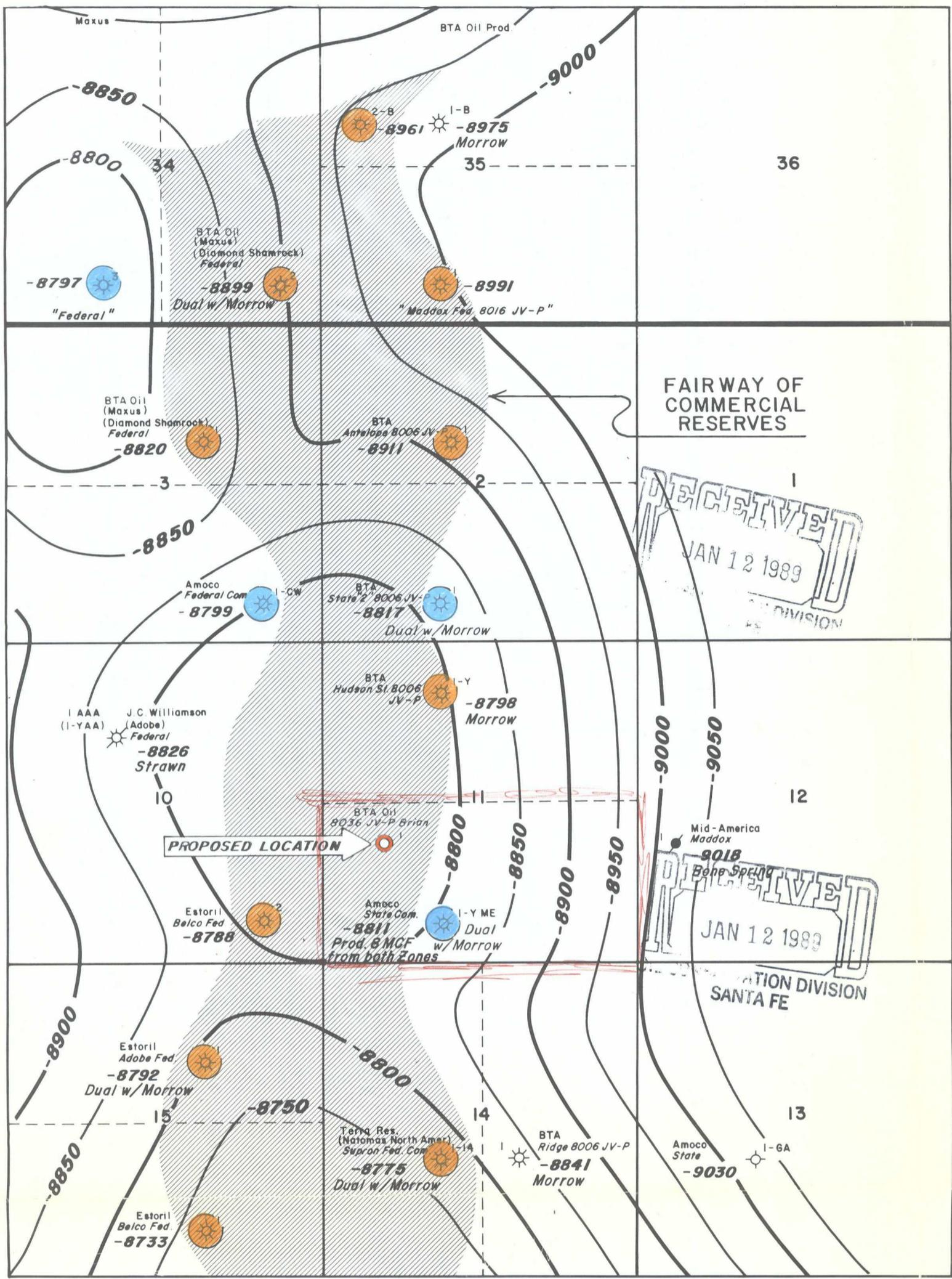
7. Date of Delivery
 1/10/89

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

RECEIVED
 JAN 12 1989
 DIVISION

R 34 E



R 34 E

Legend

"Only wells penetrating the Atoka or deeper are shown on this map."

-  Proposed BTA Location
-  Atoka Producer, Ultimate Reserves > 3 BCF
-  Atoka Producer, Ultimate Reserves < 3 BCF
-  Gas Producer, Zone Other than Atoka
-  Dry Hole

BTA Oil Producers
Midland, Texas

8036 JV-P BRIAN WELL NO. 1

Lea County, New Mexico

"STRUCTURE MAP"

CONTOURED ON: BASE ATOKA LIMESTONE

Updated By: L.J.W 1/12/89

Contoured by: Marvin L. Zoller

Scale: 1" = 2000'

Contour Interval: 50'

Date: October, 1987

RECEIVED
JAN 23 1989

Schlumberger
COMPOSITE OF BOREHOLE COMPENSATED SONIC AND COMPENSATED NEUTRON FORMATION DENSITY

COMPANY: BTA OIL PRODUCERS
WELL: 8006 JV-P HUDSON STATE 1-Y
FIELD: WILDCAT
COUNTY: LEA STATE: NEW MEXICO

860' FNL & 1980' FML
DIL/DIL: 31

Permeable Dishes: CI, 3370
Log Measured From: KB
Drilling Measured From: KB

6-16-81	7-15-81	8-6-81
ONE (BHC)	YOTC/NL/FPD	THREE (GNL/FG)
11700	12730	13410
Depth-Driller	11681	13394
Depth-Logger (S&H)	11688	13391
Bottom Log Interval	11500	13220
Top Log Interval	11500	13220
Surf	11500	13220
Casing-Driller	13388	17007
Casing-Logger	4792	11693
Bit Size	12 1/4	8 1/2
Type Fluid in Hole	CUT BRINE	OIL BASE
Dens. Visc.	8.9	13.8
pH	12	13.4
Source of Sample	PIT	
Min. @ Meas. Temp	0.77 @ 78 F	
Max. @ Meas. Temp	0.77 @ 78 F	
Min. @ Meas. Temp	0.38 @ 157 F	
Max. @ Meas. Temp	0.38 @ 157 F	
Min. @ Meas. Temp	0.800	0.810
Max. @ Meas. Temp	15.50	15.50
Min. @ Meas. Temp	15.7	15.7
Max. @ Meas. Temp	15.7	15.7
Min. @ Meas. Temp	0.016	0.016
Max. @ Meas. Temp	0.016	0.016
Min. @ Meas. Temp	0.016	0.016
Max. @ Meas. Temp	0.016	0.016

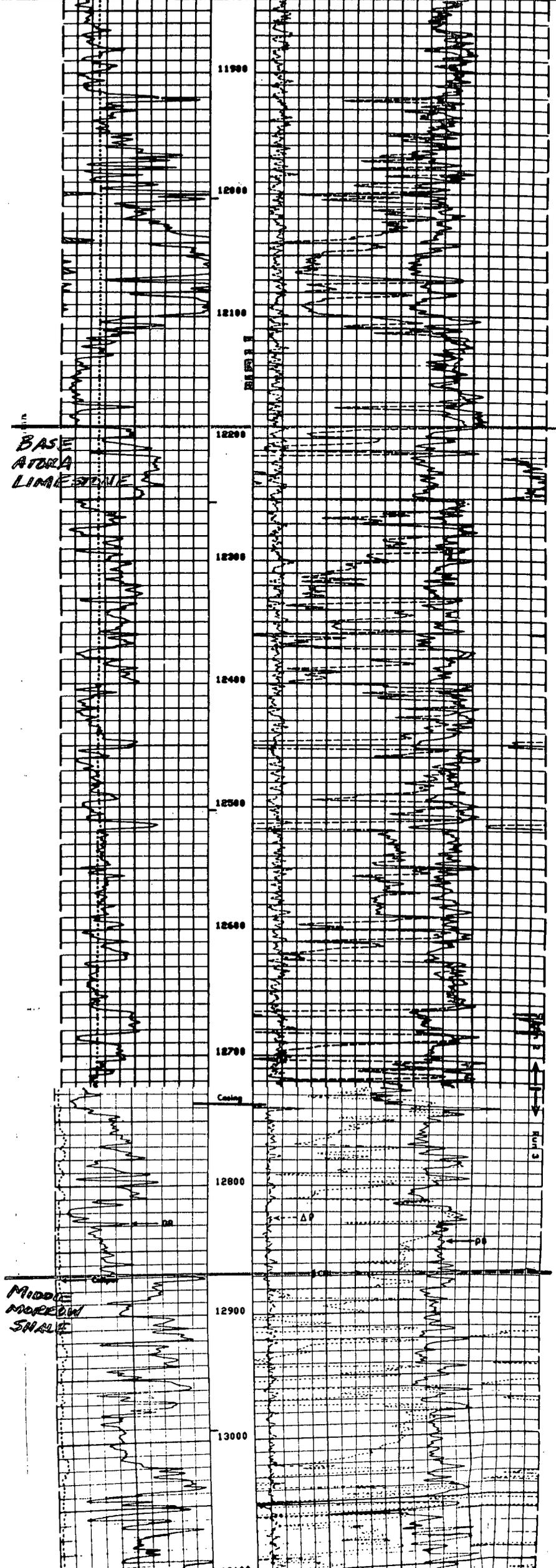
Recorded by: GILL
Witnessed by: GILL

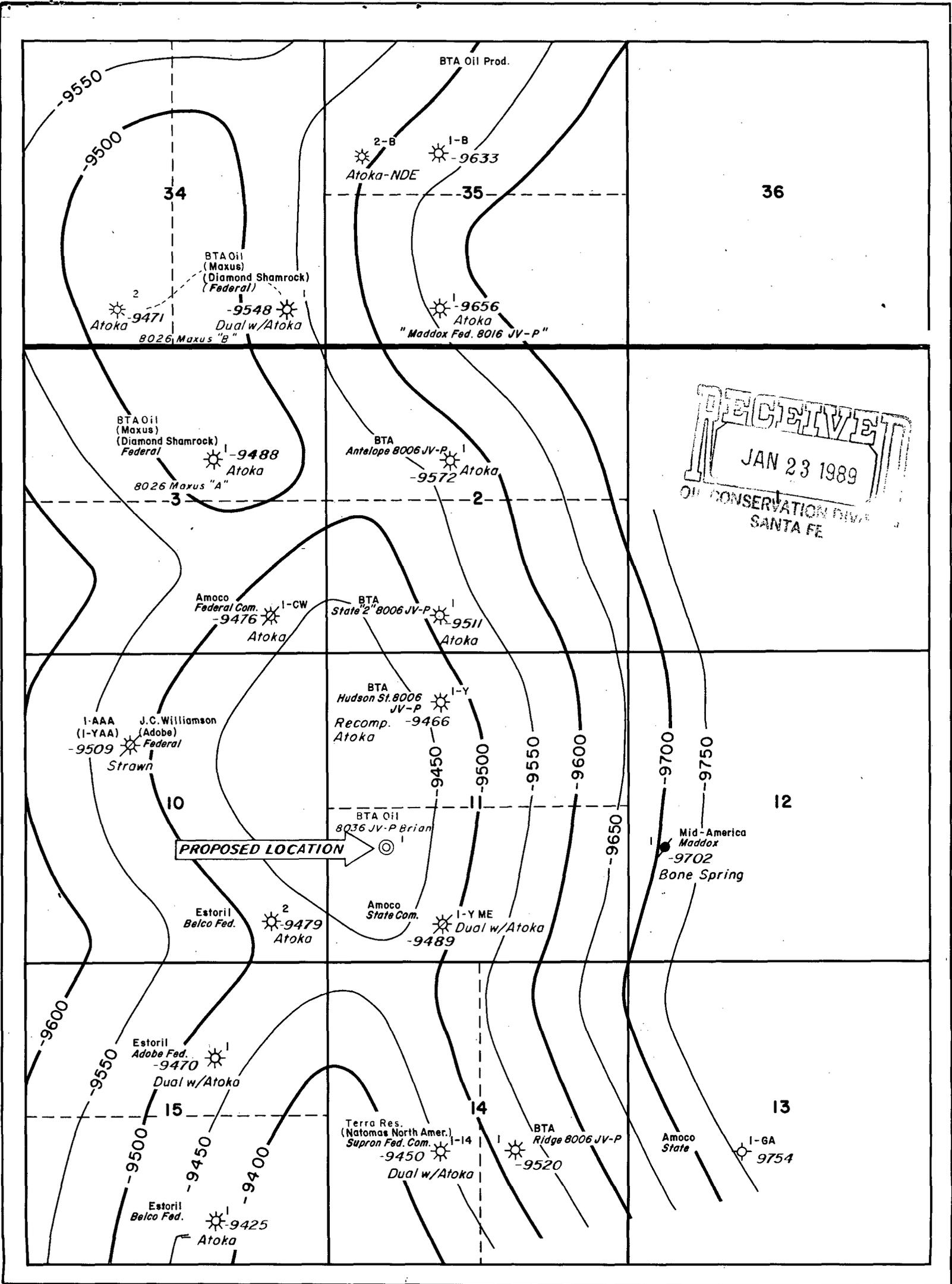
CONSERVATION DIVISION
SANITARY

REPRODUCED BY
Petroleum Information
Midland, Texas 79701

REFERENCE Y 2374L
39 COMPLETION RECORD

SPUD DATE
COMP DATE
DST RECORD
API NO. 30-025-2343





(Only wells penetrating the Atoka or deeper are shown on this map.)

Legend

- ⊙ Proposed BTA Location
- ☀ Gas Producer
- ☀ Former Gas Producer
- ☀ Former Oil Producer
- ☀ Dry Hole

BTA Oil Producers
Midland, Texas

8036 JV-P BRIAN WELL NO. 1

Lea County, New Mexico

"Structure Map"
Top "Middle Morrow" Shale

Contoured by: Lisa Weeks
Contour Interval: 50'

Scale: 1" = 2000'
Date: Jan., 1989