

EXPLORATION DIVISION
P.O. BOX 552
MIDLAND, TEXAS 79702

Mid-Continent Region
Exploration United States



**Marathon
Oil Company**

PR 1 20

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

July 31, 1991

State of New Mexico
Oil Conservation Division
State Land Office Building
310 Old Santa Fe Trail
Santa Fe, New Mexico 87503

AIRBORNE EXPRESS

Attention: Mr. David Catanach

Re: Application for Authorization to Inject
1650' FS & EL, Section 22, T-21-S, R-23-E,
Indian Basin "A" #1 Well
Conversion to SWD in Devonian Formation
Our Lease NM-1546 - U.S. Lease NM-05612-A
Eddy County, New Mexico

Dear David:

Enclosed for your examination is our C-108 for administrative approval. We are in urgent need of a SWD well for the Indian Basin Gas Plant and having spoken with Mike Stogner over the past week in your absence, we may soon call you to begin the process of getting special authorization from Bill Lemay to begin recompleting the captioned well or another before the entire process of review of the C-108 is completed. We understand our liability for all contingencies regarding the permitting process. By the way we will copy the BLM with the enclosed application as notice to them as surface owner. However, there are no offset operators other than Marathon.

Should you have any questions regarding the enclosure you may contact me or in my absence our engineer Mr. Robin Tracy.

We will also be sending to you a request to amend the recently approved C-108 for the conversion of our Indian Basin Gas Com Well #1, 1980' FNL and 660' FWL Section 23, T-21-S, R-23-E which failed to take water in the Wolfcamp. We

will request that you examine a conversion to inject into the Devonian for this well. We are preparing the documentation including new legal notices for this alternative to our Indian Basin SWD needs.

Thank you for your cooperation.

Very truly yours,

MARATHON OIL COMPANY



Mark A. Skrabacz
Contract Landman

MAS;dlo
Attachments

xc: Mr. R. W. Tracy w/attachment
Mr. T. N. Tipton w/attachment
Mr. L. N. Hoover w/attachment

cc: State of New Mexico
Oil Conservation Division
811 South 1st Street
Artesia, New Mexico 88210

Bureau of Land Management
P. O. Box 1778
Carlsbad, New Mexico 88220-1778
Attn: Mr. Shannon Shaw

OIL CONSERVATION DIVISION
RECEIVED



**Marathon
Oil Company**

1991 AUG 9 01

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

July 31, 1991

Bureau of Land Management
P. O. Box 1778
Carlsbad, New Mexico 88220-1778

CERTIFIED MAIL & RETURN
RECEIPT REQUESTED

Attention: Mr. Shannon Shaw

Re: Application for Authorization to Inject
Our Lease NM-1546 - U. S. Lease NM-05612-A
1650' FS & EL Section 22, T-21-S, R-23-E,
Indian Basin "A" #1 Well
Conversion to SWD in Devonian Formation
Eddy County, New Mexico

Gentlemen:

Attached is a copy of our Application for Authorization to Inject (C-108)
filed for administrative approval with the Oil Conservation Division.

Should the BLM have any objections or desire a hearing, please contact the
NMOCDD within 15 days of your receipt of notice.

Should this project be approved, we will be forwarding a Sundry Notice to your
attention.

Should you have any questions, please advise.

Very truly yours,

MARATHON OIL COMPANY

A handwritten signature in cursive script, appearing to read 'Mark A. Skrabacz'.

Mark A. Skrabacz
Contract Landman

MAS;mmc'
Attachment

xc: State of New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501-2088
Attention: Mr. David Catanach

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

OIL CONSERVATION DIVISION

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no 20

II. Operator: Marathon Oil Company

Address: P. O. Box 552, Midland, Texas 79702

Contact party: T. N. Tipton Phone: (915) 682-1626

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: T. N. Tipton Title Production Superintendent

Signature: T. N. Tipton Date: July 31, 1991

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

ATTACHMENT A

(ITEM III, FORM C 108)

WELLBORE INFORMATION IN TABULAR FORM

INDIAN BASIN "A" NO. 1 (222)
1,650' FSL and 1,650' FEL
Section 22, T-21-S, R-23-E
Eddy County, New Mexico

Surface Casing: 9-5/8" set to 1,925'. Cemented w/1,000 sx. Circulated cement. Hole size 12-1/4".

Production Casing: 7" set @ 9,385'. Cemented w/625 sx. TOC 7,350' (1962). 1988 squeezed w/900 sx cmt. Shot perfs @ 6,750'-6,768' (had isolation) TOC unknown. Hole size 7-13/16".

Production Tubing/BHA: 2-3/8", 4.7#, J-55, 8rd EUE internally plastic coated tbg @ ±10,100'. 2-3/8" x 7" Nickel-plated Baker Model AD-1 tension packer @ ±10,000'.

Production Liner: 5-1/2", 15.5# from 8,800 to 10,400'. Cemented in w/125 sx. Perfs shot from 10,100' to 10,400' (selectively). Hole size 6-1/8".

PROPOSED COMPLETION

INDIAN BASIN A #1 (222)
SECTION 22, T-21S, R-23E
1650' FSL & 1650' FEL
EDDY COUNTY, NEW MEXICO

TD: 9450' KB: 3862'

9-5/8"
@ 1925'

SURFACE: 9-5/8" SET @ 1925', CEMENTED W/1000sx
CEMENT CIRCULATED.

PERFS: 6750'-68' SQUEEZED

PERFS: 7350'-68' TA'D SQUEEZED W/350sx

PERFS: 7360'-82' TA'D SQUEEZED W/200sx

PERFS: 7374'-84' SQUEEZED

PERFS: 7414'-20' TA'D SQUEEZED W/450sx

PERFS: 7505'-72' TA'D SQUEEZED W/1000sx

PERFS: 9118'-30' TA'D SQUEEZED

PERFS: 9256'-66' TA'D SQUEEZED

7" @
9385'

PRODUCTION: 7" SET @ 9385', CEMENT W/625sx, TOC @
(1962) 7350'. 1988 SQUEEZED W/900sx. TOC
UNKNOWN.

SELECTIVELY PERFORATE DEVONIAN 10,100'-10,400'

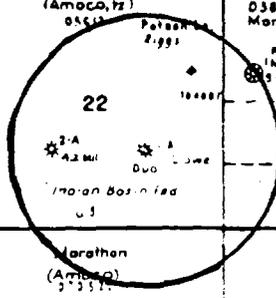
TD @ 10,400'

5-1/2" LINER 8800'-10,400'

Lower TOC rate @ 8370 by 75%

ATTACHMENT B
(ITEM V, FORM C 108)

<p>3</p> <p>Benjamin HBP 0384625</p> <p>20</p>	<p>4</p> <p>Conoco 048216</p> <p>23</p>	<p>5</p> <p>Conoco 048216</p> <p>35</p>	<p>6</p> <p>Marathon HBP 0384625</p>	<p>7</p> <p>Phillips 4-1-65(3) 0384623</p>	<p>8</p> <p>Phillips 4-1-65(3) 04827</p>
<p>9</p> <p>Sun HBP 0488100</p>	<p>10</p> <p>Alma Center 5-31 51000</p>	<p>11</p> <p>Marathon HBP 05607</p>	<p>12</p> <p>Marathon HBU 05608</p>	<p>13</p> <p>Marathon HBU 05608</p>	<p>14</p> <p>Phillips 4-1-65(3) 04827</p>
<p>15</p> <p>Sun HBP 0488100</p>	<p>16</p> <p>Santa Fe Ener 11-1-75 59579</p>	<p>17</p> <p>Marathon HBP 05607</p>	<p>18</p> <p>Marathon HBU 05608</p>	<p>19</p> <p>Marathon HBU 05608</p>	<p>20</p> <p>Phillips 4-1-65(3) 04827</p>
<p>21</p> <p>Sun HBP 0488100</p>	<p>22</p> <p>California Oil HBP 048037</p>	<p>23</p> <p>Marathon HBP 05608</p>	<p>24</p> <p>Marathon HBP 05608</p>	<p>25</p> <p>Marathon HBP 05608</p>	<p>26</p> <p>Phillips 4-1-65(3) 04827</p>
<p>27</p> <p>Sun HBP 0488100</p>	<p>28</p> <p>California Oil HBP 048037</p>	<p>29</p> <p>Marathon HBP 05608</p>	<p>30</p> <p>Marathon HBP 05608</p>	<p>31</p> <p>Marathon HBP 05608</p>	<p>32</p> <p>Phillips 4-1-65(3) 04827</p>
<p>33</p> <p>Sun HBP 0488100</p>	<p>34</p> <p>California Oil HBP 048037</p>	<p>35</p> <p>Marathon HBP 05608</p>	<p>36</p> <p>Marathon HBP 05608</p>	<p>37</p> <p>Marathon HBP 05608</p>	<p>38</p> <p>Phillips 4-1-65(3) 04827</p>
<p>39</p> <p>Sun HBP 0488100</p>	<p>40</p> <p>California Oil HBP 048037</p>	<p>41</p> <p>Marathon HBP 05608</p>	<p>42</p> <p>Marathon HBP 05608</p>	<p>43</p> <p>Marathon HBP 05608</p>	<p>44</p> <p>Phillips 4-1-65(3) 04827</p>
<p>45</p> <p>Sun HBP 0488100</p>	<p>46</p> <p>California Oil HBP 048037</p>	<p>47</p> <p>Marathon HBP 05608</p>	<p>48</p> <p>Marathon HBP 05608</p>	<p>49</p> <p>Marathon HBP 05608</p>	<p>50</p> <p>Phillips 4-1-65(3) 04827</p>
<p>51</p> <p>Sun HBP 0488100</p>	<p>52</p> <p>California Oil HBP 048037</p>	<p>53</p> <p>Marathon HBP 05608</p>	<p>54</p> <p>Marathon HBP 05608</p>	<p>55</p> <p>Marathon HBP 05608</p>	<p>56</p> <p>Phillips 4-1-65(3) 04827</p>
<p>57</p> <p>Sun HBP 0488100</p>	<p>58</p> <p>California Oil HBP 048037</p>	<p>59</p> <p>Marathon HBP 05608</p>	<p>60</p> <p>Marathon HBP 05608</p>	<p>61</p> <p>Marathon HBP 05608</p>	<p>62</p> <p>Phillips 4-1-65(3) 04827</p>
<p>63</p> <p>Sun HBP 0488100</p>	<p>64</p> <p>California Oil HBP 048037</p>	<p>65</p> <p>Marathon HBP 05608</p>	<p>66</p> <p>Marathon HBP 05608</p>	<p>67</p> <p>Marathon HBP 05608</p>	<p>68</p> <p>Phillips 4-1-65(3) 04827</p>
<p>69</p> <p>Sun HBP 0488100</p>	<p>70</p> <p>California Oil HBP 048037</p>	<p>71</p> <p>Marathon HBP 05608</p>	<p>72</p> <p>Marathon HBP 05608</p>	<p>73</p> <p>Marathon HBP 05608</p>	<p>74</p> <p>Phillips 4-1-65(3) 04827</p>
<p>75</p> <p>Sun HBP 0488100</p>	<p>76</p> <p>California Oil HBP 048037</p>	<p>77</p> <p>Marathon HBP 05608</p>	<p>78</p> <p>Marathon HBP 05608</p>	<p>79</p> <p>Marathon HBP 05608</p>	<p>80</p> <p>Phillips 4-1-65(3) 04827</p>
<p>81</p> <p>Sun HBP 0488100</p>	<p>82</p> <p>California Oil HBP 048037</p>	<p>83</p> <p>Marathon HBP 05608</p>	<p>84</p> <p>Marathon HBP 05608</p>	<p>85</p> <p>Marathon HBP 05608</p>	<p>86</p> <p>Phillips 4-1-65(3) 04827</p>
<p>87</p> <p>Sun HBP 0488100</p>	<p>88</p> <p>California Oil HBP 048037</p>	<p>89</p> <p>Marathon HBP 05608</p>	<p>90</p> <p>Marathon HBP 05608</p>	<p>91</p> <p>Marathon HBP 05608</p>	<p>92</p> <p>Phillips 4-1-65(3) 04827</p>
<p>93</p> <p>Sun HBP 0488100</p>	<p>94</p> <p>California Oil HBP 048037</p>	<p>95</p> <p>Marathon HBP 05608</p>	<p>96</p> <p>Marathon HBP 05608</p>	<p>97</p> <p>Marathon HBP 05608</p>	<p>98</p> <p>Phillips 4-1-65(3) 04827</p>
<p>99</p> <p>Sun HBP 0488100</p>	<p>100</p> <p>California Oil HBP 048037</p>	<p>101</p> <p>Marathon HBP 05608</p>	<p>102</p> <p>Marathon HBP 05608</p>	<p>103</p> <p>Marathon HBP 05608</p>	<p>104</p> <p>Phillips 4-1-65(3) 04827</p>



NO. INDIAN BASIN UNIT
10
MARATHON (OPER.)
No Indian Basin Unit

WEST
INDIAN BASIN UT.

SUN (OPER.)

Indian Basin Fed
Indian Basin
Indian Basin

Indian Basin
Indian Basin
Indian Basin

ATTACHMENT C

(ITEM VI, FORM C 108)

1. Marathon Oil Company
Indian Basin "A" No. 2
1,600' FSL and 1,650' FWL, Section 22, T-21-S, R-23-E
Eddy County, New Mexico

Date Drilled: November 8, 1962

Total Depth: 7,800'

Producing from Upper Penn perforations from 7,319'-7,372'.

Surface Casing: 13-3/8" set to 250'. Cemented w/275 sx. Circulated
cement.

Intermediate Casing: 8-5/8" set to 2,003'. Cemented w/885 sx.
Circulated cement.

Production Casing: 5-1/2" set to 7,799'. Cemented w/1,295 sx.
Circulated cement. Tested Upper Penn from 7,610'-44'
and 7,536'-68'.
Completed in Upper Penn from 7,319'-7,372'.

Tubing: 2-7/8" @ 7,226'. Baker Lok-Set Packer @ 7,195'.

2. Marathon Oil Company
Indian Basin Gas Com No. 1
1,980' FNL and 660' FWL, Section 23, T-21-S, R-23-E
Eddy County, New Mexico

Date Drilled: October 27, 1962

Total Depth: 10,111'

Attempted to convert to SWD in Wolfcamp perforations 6,574'-6,768'.

Surface Casing: 9-5/8" set @ 2,250'. Cemented w/1,000 sx. Circulated
cement.

Production Casing: 7" set @ 10,100'. Cemented w/1,350 sx. TOC @ 6,070'
by temperature survey.

ATTACHMENT D

(ITEM VII, FORM C 108)

1. Proposed average and maximum injection rates; 1,500 BWPD and 2,000 BWPD, respectively.
2. Type of system: This will be a closed system.
3. Proposed average and maximum injection pressures: 1,200 psig and 2,080 psig, respectively (estimated).
4. See attached (Attachment D-1). The source water is from the Upper Penn formation from wells in the Indian Basin Field.
5. No water analysis is presently available for the Devonian. A sample will be obtained at the time of conversion.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W2-90

TO Marathon Oil Company
P. O. Box 552
Midland, TX 79702

Date January 2, 1990

This report is the property of Halliburton Services and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management. It may not even be used in the course of regular business operations by any personnel, customer or employee thereof receiving such report from Halliburton Services.

Submitted by Darrell Fear Date Rec. January 2, 1990

Well No. Marathon Federal SWD #1 Depth _____ Formation _____

Field _____ County Eddy Source _____

Resistivity	<u>0.26 @ 70°</u>	_____	_____
Specific Gravity ..	<u>1.012</u>	_____	_____
pH	<u>8.7</u>	_____	_____
Calcium	<u>652</u>	_____	_____
Magnesium	<u>264</u>	_____	_____
Chlorides	<u>10,000</u>	_____	_____
Sulfates	<u>200</u>	_____	_____
Bicarbonates	<u>397</u>	_____	_____
Soluble Iron	<u>0</u>	_____	_____
-----	_____	_____	_____
-----	_____	_____	_____
-----	_____	_____	_____

Remarks:

Rocky Chambers
Respectfully submitted

Analyst: Rocky Chambers - Field Engineer

HALLIBURTON SERVICES

HALLIBURTON DIVISION LABORATORY
HALLIBURTON SERVICES
 MIDLAND DIVISION
 HOBBS, NEW MEXICO 88240
 LABORATORY WATER ANALYSIS

No. W83-908

Union Oil Company

Date 7-28-83

Box 2409

Hobbs, New Mexico

ATTN: Mr. Calvin Saathoff

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 7-28-83

Well No. Indian Basin #5 Depth _____ Formation Cisco

County _____ Field _____ Source _____

Resistivity	<u>0.272 @ 74°F.</u>		
Specific Gravity	<u>1.022</u>		
pH	<u>7.1</u>		
Calcium (Ca)	<u>1,400</u>		<u>*MPL</u>
Magnesium (Mg)	<u>60</u>		
Chlorides (Cl)	<u>14,000</u>		
Sulfates (SO ₄)	<u>3,650</u>		
Bicarbonates (HCO ₃)	<u>875</u>		
Soluble Iron (Fe)	<u>Nil</u>		

Remarks: _____ *Milligrams per liter

RECEIVED

AUG 1 - 1983

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

CC: _____

By W. L. Brewer
 CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED AND DOES NOT...

ATTACHMENT E

(ITEM VIII, FORM C 108)

1. Injection Zone: Devonian
Lithology: Limestone
Top: 10,100'
Bottom: 11,090'
Thickness: 990'
Perforations: 10,100' to 10,400' (Selectively)

2. Fresh Water Zone: Grayburg

Depth to Bottom: $\pm 181'$ to 217' (Section 22, 23, 9-17 ppm, Cond. 728-822 M-Mhos).

Fresh water data obtained from Ken Fresquez, Water Specialist, with the State Engineers Office, Roswell, New Mexico.

Aquifer w/dissolved solids concentration less than 10,000 Mg/L: Paddock
Depth to bottom $\pm 2,800'$ (Section 23, 3,600 ppm, 1.009 specific gravity).

ATTACHMENT F
(ITEM IX, FORM C 108)

STIMULATION PROGRAM

The proposed stimulation will consist of one treatment.

Treatment: Acidize Devonian perforation from 10,100' to 10,400' w/10,000 gallons 15% HCl acid using 2 1.3 SP GR ball sealers per perforation for diversion.

ATTACHMENT G

(ITEM XI, FORM C 108)

Fresh Water Zone: Grayburg

Chlorides: Ranges from 9-17 ppm

Conductivity: Ranges from 728 - 822 M-Mhos

Fresh water data obtained from Ken Fresquez, Water Specialist, with the State Engineers Office, Roswell, New Mexico.

ATTACHMENT H

(ITEM XII, FORM C 108)

Marathon Oil Company has examined available geologic and engineering data. Marathon finds no evidence of open faults or any other hydrologic connection between the proposed disposal zone (Devonian) and the underground source of drinking water (Grayburg).

ATTACHMENT I

(ITEM XII, FORM C 108)

Marathon Oil Company has published Legal Notices in the Artesia Daily Press and Carlsbad Current-Argus. (See attached.)

Affidavit of Publication

No. 13630

STATE OF NEW MEXICO,

County of Eddy:

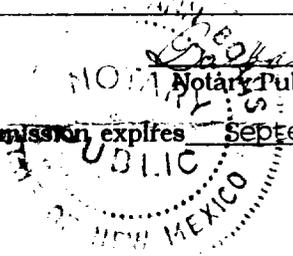
Gary D. Scott being duly sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 days consecutive weeks on the same day as follows:

First Publication July 24, 1991
Second Publication _____
Third Publication _____
Fourth Publication _____

Gary D. Scott
Subscribed and sworn to before me this 24th day of July 19 91

George L. Brown
Notary Public, Eddy County, New Mexico
My Commission expires September 23, 1991



Copy of Publication

LEGAL NOTICE

Marathon Oil Company, P.O. Box 552, Midland, Texas 79702-0552, hereby informs the public that it plans to establish a salt water disposal well at the following location: 1650' FSL, 1650' PFL, Section 22, T-21-S, R-23-E, N.M.P.M., Eddy County, New Mexico. Produced water will be disposed into the Devonian formation at a depth of 10,000' - 10,400' with maximum injection rate of 2000 BWPD and maximum injection pressure of 2000 psi. All interested parties may file objections or requests for hearing within 15 days of this Notice with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501-2088. Published in the Artesia Daily Press, Artesia, N.M. July 24, 1991.

Legal 13630

RECEIVED

JUL 31 1991

MARATHON OIL COMPANY
LAND DEPARTMENT
MIDLAND, TEXAS

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

E. C. Cantwell, being first duly sworn,
on oath says:

That he is publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

JULY 25 _____, 19 91
_____, 19 ____
_____, 19 ____
_____, 19 ____

that the cost of publication is \$ 7.42,
and that payment thereof has been made
and will be assessed as court costs.

E C Cantwell

Subscribed and sworn to before me this

25 day of JULY, 19 91

Dorella Taylor

My commission expires 6/01/92

Notary Public



July 25, 1991

LEGAL NOTICE

Marathon Oil Company, P.O.
Box 552, Midland, Texas
79702-0552, Attention: Mr. R.
W. Tracy, hereby informs the

public that it intends to estab-
lish a salt water disposal well
at the following location: 1650'
FSL, 1650' FEL, Section 22,
T-21-S, R-23-E, N.M.P.M.,
Eddy County, New Mexico.
Produced water will be dis-
posed into the Devonian for-
mation at a depth of 10,000' -
10,400' with maximum injec-
tion pressure of 2080 psi. All
interested parties must file ob-
jections or requests for hear-
ing within 15 days of this No-
tice with the New Mexico Oil
Conservation Division, P.O.
Box 2088, Santa Fe, New
Mexico 87501-2088.

RECEIVED

JUL 29 1991

MARATHON OIL COMPANY
LAND DEPARTMENT
MIDLAND, TEXAS