CAMPBELL, CARR, BERGE
& SHERIDAN, P.A.
LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
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MICHAEL H. FELDEWERT
DAVID B. LAWRENZ

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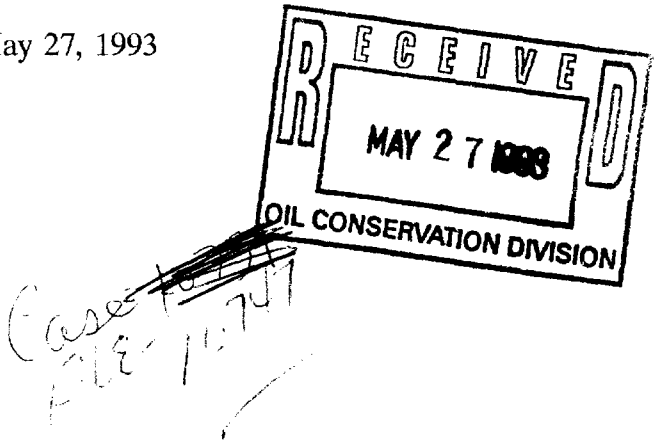
JEFFERSON PLACE
SUITE I - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

May 27, 1993



HAND-DELIVERED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

Re: In the Matter of the Application of Nearburg Producing Company for Salt Walter Disposal, Lea County, New Mexico

Dear Mr. LeMay:

Enclosed in triplicate is the completed Form C-108 filed by Nearburg Producing Company in the above-referenced case. This matter is currently scheduled for hearing before an Examiner of the Oil Conservation Division on June 17, 1993.

Very truly yours,

WILLIAM F. CARR

WFC:mlh
Enclosures
cc: Mr. J. T. Sexton (w/enclosure)
District Office
District I
Hobbs, New Mexico 88240

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

FORM C-108
Revised 7-1-81

Case 10731

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Nearburg Producing Company

Address: P.O. Box 31405, Dallas, Texas 75231-0405

Contact party: Tim MacDonald Phone: (214) 739-1778

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: Tim R. MacDonald Title Engineering Manager

Signature: T.R.M.D. Date: May 20, 1993

* 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. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

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.

ATTACHED TO FORM C-108
NEARBURG PRODUCING COMPANY
APPLICATION FOR AUTHORIZATION TO INJECT

ANSWERS TO QUESTIONS:

III. Well Data

A.

1. Lease Name: NM-53219
Well Name: Nearburg Producing Company M.H. Federal 1-1N
Well Number: 1
Section: 1
Township: 22 South
Range: 24 East
Footage: 660' FSL & 1650' FWL

2. See attached diagram. Diagram of well casing. Setting depth, sacks of cement, hole size, top of cement, how top determined.

3. See attached diagram.
We will run 2 7/8" integral joint IPC tubing, complete with a downhole valve set at 8,200'±.

4. See attached diagram.
Packer will be a Baker Loc-Set (or equivalent) set at 8,200'±. A teflon coated on/off tool assembly will be run in the packer.

B.

1. Injection formation is the Cisco-Canyon.

2. The injection interval will be a perforated interval of 8219' - 8231', 8333' - 8339', and 8370' - 8380', as identified on the attached log.

3. The well was not drilled for injection, its original purpose was to test the Cisco-Canyon formation.

4. The original wellbore was drilled to a depth of 7952' by Morris Antweil in 1979. The wellbore was re-entered by Nearburg Producing Company in 1988 and drilled to a depth of 10,504' testing the Morrow formation. See attached scout ticket for a complete well history of tests and perforations. The Morrow formation was plugged with a cast iron bridge plug at 10,210' and capped with 30' of cement.

5. The next higher oil and gas zone above the Cisco-Canyon is the Wolfcamp formation. The next lower oil and gas zone below the Cisco Canyon formation is the Strawn formation.

IV. This is not an expansion of an existing project.

V. See attached map. Plat of 2 mile & 1/2 mile area.

VI. No wells within the area of review have penetrated the proposed injection zone except the well subject to this application.

VII.

1. Proposed average and maximum daily rate of injection is 3,000 Bbls. and 10,000 Bbls. respectively.

2. The system will be open.

3. Proposed average and maximum injection pressure is 300 lbs. and 1200 lbs. respectively.

4. The injected water will be Cisco-Canyon produced water from area wells and for this reason will be compatible with the injection zone.

5. See attached analysis of fluid in the injection zone of the Shelby #4 well located in drilling unit "G" of Section 12, T-22-S, R-24-E, Eddy County, New Mexico, approximately 3000' from the proposed injection well.

VIII.

Lithologic Detail:	Dolomite
Geologic Name:	Cisco-Canyon
Thickness:	Top of Cisco-Canyon Dolomite to Base of Cisco-Canyon Dolomite, 628'
Depth:	Top of Cisco-Canyon formation is 7932'
Overlying underground sources of drinking water:	All drinking water sources are between surface and 500' subsurface
Underlying underground sources of drinking water:	None known

IX. Proposed stimulation program will be to acidize the perforations described in III B.2 above with 10,000 gallons of 20% HCL acid.

X. See attached scout ticket along with Drill Stem Test information from DST's in the following intervals: DST #1 7823'-7850'; DST #2 7928'-7952'; DST #3 4380'-4600'; DST #4 3460'-3590'. Morrow formation production tested at perforations from 10,155' to 10,244'. The Morrow formation was plugged at 10,210' with a cast iron bridge plug and capped with 30' of cement. Cisco-Canyon formation production tested at perforations from 8219' to 8231'. Logs are on file with the OCD.

XI. One (1) fresh water well exists within 1 mile of the proposed injection well, as shown on the attached topo map. A water sample was taken on 5/21/93 and the analysis is attached hereto.

XII. Nearburg Producing Company has examined available geologic and engineering data and has found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Proof of Notice

Surface owner of proposed disposal well.
Department of the Interior
Bureau of Land Management
P.O. Box 27115
Santa Fe, New Mexico 87502-7115

Leasehold owners or operators on adjacent property or within one-half mile of the disposal well location:

1) Enron Oil and Gas Company
P.O. Box 2267
Midland, Texas 79702

2) Meridian Oil, Inc.
P.O. Box 51810
Midland, Texas 79710

3) Shelby Jeanne Fields
5535 Yale Blvd.
#200
Dallas, Texas 75206

4) Consolidated Oil and Gas
1860 Lincoln Street
Denver, Colorado 80203

5) Southern Union Exploration Company
Suite 1400, Texas Federal Bldg.
1217 Main Street
Dallas, Texas 75202

6) Yates Petroleum Corporation
105 South 4th Street
Artesia, New Mexico 88210

7) Santa Fe Operating Partners, L.P.
550 W. Texas, Suite 1330
Midland, Texas 79701

8) Mitchell Energy Corporation
P.O. Box 4000
The Woodlands, Texas 77380

9) Ameriplor
American Exploration Company
1331 Lamar Street
Suite 900
Houston, Texas 77010-3088

10) Neste Oil, Inc.
5 Post Oak Park
Suite 1500
Houston, Texas 77027

11) Lindemuth and Associates
510 Hearn Street
Suite 200
Austin, Texas 78703

12) Diverse G.P. III
16414 San Pedro
Suite 340
San Antonio, Texas 78232

13) HEF-LIN Energy Corporation
510 Hearn Street
Suite 250
Austin, Texas 78703

14) Paul Buller
510 Hearn Street
Suite 350
Austin, Texas 78703

15) Justin B. Lynch
510 Hearn Street
Suite 370
Austin, Texas 78703

16) Snyder Petroleum Corporation
510 Hearn Street
Suite 360
Austin, Texas 78703

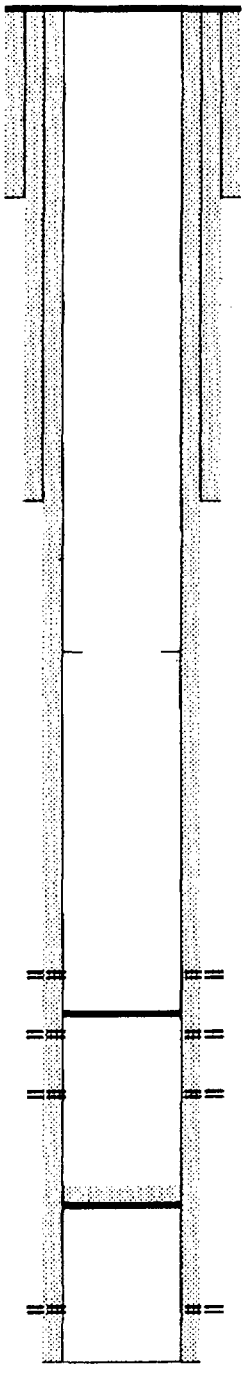
XIV. Proof of Publication

See attached.

Nearburg Producing Company

Exploration & Production

Well Name: M – H Federal #1 1 – N	County: Eddy
Field Name: McKitrick Hills	State: New Mexico
Date: 5/23/93	Formation: Canyon



13 3/8" Casing Set at 200'

Hole Size 17 1/2"

250 Sacks of Cement – Circulated to Surface

8 5/8" Casing Set at 1,621'

Hole Size 12 1/4"

1,035 Sacks of Cement – Circulated to Surface

DV Tool Set at 6067'

2nd Stage – 1,150 Sacks of Cement – Circulated to Surface

4 1/2" Casing Set at 10,504'

Hole Size 7 7/8"

1st Stage – 925 Sacks of Cement. Theoretical TOC 5,712.5'

<u>Injection Perforations</u>

8219' – 8231', 24 Shots at 2 SPF

CIBP Set at 8305'

8333' – 8339', 13 Shots at 2 SPF

8370' – 8380', 21 Shots at 2 SPF

CIBP at 10,210' capped with 30 feet of cement

Original Morrow Completion from 10,244' to 10,255'

22 Shots at 2 SPF

API Nbr: 30015227820000 State: NMEX County: EDDY
Meridian: NEW MEXICO Meridn Code: 21
Province: NORTH BASIN Prov Code: 666
Oper: ANTWEIL MORRIS R Oper Code: 001550
Lease: M-H FEDERAL COM Well: 1 Lease Code:
Field: MCKITTRICK HILLS Field Code: 059322
SURVEY: District: 02

T022S R024E SEC1 Spot:
FOOTAGES: 660FS 1650FW CNGRS T-R-SEC /FULL SEC
LOC NARR: 14 MI SW/LAKEWOOD

Oper Elev: 3854GR RIG HT: Log Td:
Form@TD: 406CSCO

Other Depths: DRLR 7952 WSTD PBTD OLDTD
Permit: Proj Depth: 8200 Proj Form: 409PSLV

Status: D&A Spud Date: 01 31 1979
Hole Dir: VERTICAL Comp Date: 03 09 1979
Numeric Class: INL-6 FNL-0
Alpha Class: INL-D FNL-D

Latitude: Source: Longitude:

CASING:
13 3/8 @ 200 W/ 250SX
8 5/8 @ 1621 W/ 1035SX

Contr: MORANCO 9 Tools: ROTARY RIG Nbr:

INITIAL POTENTIAL TESTS:

FORMATION TOPS: (Source,Names,Depths,Shows)

LOG
453DLWR 1592 452BSPG 3552 451WFMP 7503
406CSCO 7932

CORE DESCRIPTIONS:

FORMATION TESTS:

DST 01 7823-7850 451WFMP
REC 5FT M
FINAL OP: 2H IFP: 22 FFP: 22 BHT: F
ISIP: 44 1H FSIP: 22 3H IHP: FHP:

DST 02 7928-7952 406CSCO
REC 3800FT PW
FINAL OP: 2H30M IFP: 87 FFP: 1439 BHT: F
ISIP: 2390 1H FSIP: 2390 4H IHP: FHP:

DST 03 STRD 4380-4600 452BSPG PKRFLR
REC 3648FT XW
FINAL OP: 1H50M IFP: 473 FFP: 1786 BHT: F
ISIP: 1786 1H FSIP: IHP: FHP:

DST 04 3460-3590 453DLWR
REC 1806FT XW

API Nbr: 30015227820001 State: NMEX County: EDDY
Meridian: NEW MEXICO Meridn Code: 21
Province: DELAWARE BASIN Prov Code: 652
Oper: NEARBURG PROD Oper Code: 116980
Prev. Oper: ANTWEIL MORRIS R
Prev. Oper: NEARBURG PROD
Lease: M-H FEDERAL COM Well: 1 Lease Code:
Field: MCKITTRICK HILLS Field Code: 059322

T022S R024E SEC1 Spot: SE SW
FOOTAGES: 660FS 1650FW CNGRS T-R-SEC /FULL SEC
LOC NARR: 16 MI SW LAKEWOOD, NM

Oper Elev: 3854GR RIG HT: Log Td:
Form@TD: 354BRNT

Other Depths: DRLR 10502 WSTD PBTD OLDTD 7952
Permit: Proj Depth: 10600 Proj Form: 402MRRW

Status: TAW DEEPEN Spud Date: 07 05 1988
Hole Dir: VERTICAL Comp Date: 02 15 1989
Numeric Class: INL-6 FNL-0
Alpha Class: INL-D D FNL-D

Latitude: Source: Longitude:

INITIAL POTENTIAL TESTS:

FORMATION TOPS: (Source,Names,Depths,Shows)

LOG
405CNYN 8555 404STRN 8820 403AKSL 9198
402MRRW 9729 354BRNT 10437

CORE DESCRIPTIONS:

FORMATION TESTS:

PRODUCTION TESTS:

PTS		1UW	CUT %	/64CK	HRS
402MRRW	PERF		/	10155-10244	
PERF	10155-10244 C	-	-	-	
BRPG 10155-10244 - -					

NARRATIVE: SWBD WTR
BRPG DEPTH-NO DETAILS

PTS		1UW	CUT %	/64CK	HRS
406CSCO	PERF		/	8219-8231	
PERF	8219-8231 C	-	-	-	
SQZD 8219-8231 - -					

NARRATIVE: SWBD WTR W/NS
FIELD: MCKITTRICK HILLS PROD ZN CODE: OPER KEY: 1

OTHER WELL INFO:

*** Proposed Bottom Hole Location ***

*** Actual Bottom Hole Location ***

FINAL OP: 2H30M IFP: 79 FFP: 843 BHT: F
ISIP: 1343 1H FSIP: 1422 4H IHP: FHP:

PRODUCTION TESTS:
FIELD: MCKITTRICK HILLS PROD ZN CODE: OPER KEY: 1

LOG SURVEYS:

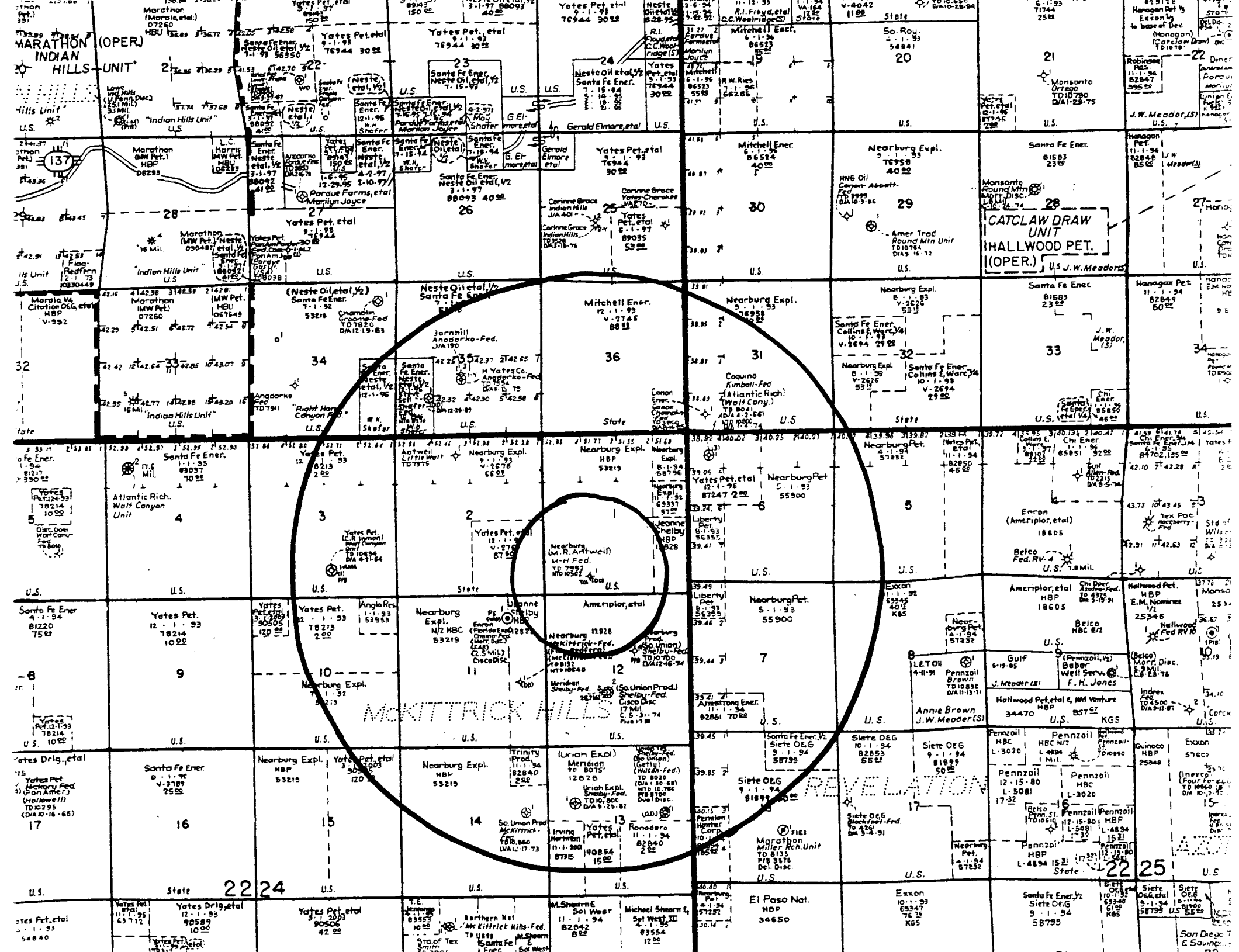
GR NEC
DNC EL
ML

OTHER WELL INFO:

*** Proposed Bottom Hole Location ***

*** Actual Bottom Hole Location ***

*** Horizontal Drilling Data ***


MARATHON (OPER.)
INDIAN HILLS UNIT
"Indian Hills Unit"
Marathon (Morrola, etal.) 07260 HBU
Yates Pet. etal 9-1-93 76944 30
Santa Fe Ener. Neste Oil etal, 1/2 3-1-97 88092 41
Neste etal, 1/2
Santa Fe Ener. Neste Oil etal, 1/2 3-1-97 88093 40
Neste Oil etal, 1/2 Santa Fe Ener. 7-1-92 53218
Neste Oil etal, 1/2 Santa Fe Ener. 7-1-92 53218
Mitchell Ener. 12-1-93 V-2746 88
Nearburg Expl. 5-1-93 76958 40
Nearburg Expl. 8-1-93 V-2626 53
Santa Fe Ener. Collins E. Ware, 1/4 10-1-93 V-2694 29
Santa Fe Ener. 81583 23
CATCLAW DRAW UNIT
HALLWOOD PET.
(OPER.)
Hanagan Pet. 11-1-94 82849 85
Hanagan Pet. 11-1-94 82849 60
Marathon (MW Pet.) HBP 06293
Marathon (MW Pet.) 07260
Marathon (MW Pet.) 0304487 etal, 1/2
Marathon (MW Pet.) HBU 0676749
Marathon (MW Pet.) HBU 0304487
Marathon (MW Pet.) HBU 0676749
Marola, 1/4 Citation O&G, etal HBP V-992
Flag-Redfern 12-1-73 10830449
Harris (MW Pet.) HBU 0676749
L.C. Harris (MW Pet.) HBU 0676749
Angadarko Fed. TD 7941
Angadarko-Fed. TD 7820 D/A 12-19-83
Chamolin Grayson-Fed TD 7820 D/A 12-19-83
Pardue Farms, etal Marilyn Joyce
Yates Pet. etal 9-1-93 76944 30
Yates Pet. etal 9-1-93 76944 30
Yates Pet. etal 6-1-97 89035 53
Gerald Elmore, etal
Corinne Grace Indian Hills J/A 401
Corinne Grace Yates-Cherokee J/A 470
Corinne Grace Indian Hills J/A 401
Corinne Grace Indian Hills TD 7958 D/A 2-15-75
Jornhill Anadarko-Fed. J/A 190
H Yates Co. Anadarko-Fed TD 54 D/A 11-75
Mitchell Ener. 12-1-93 V-2746 88
Nearburg Expl. 5-1-93 76958 40
HNG Oil Carson Abbott-Fed 8999 D/A 10-3-86
Amer Trad Round Mtn Unit TD 10764 D/A 9-16-72
Monsanto Round Mtn Morr. Disc. L&H 10-24-74
Monsanto Orrego TD 10780 D/A 1-29-75
J.W. Meador, (S)
Coquina Kimball-Fed (Atlantic Rich. (Wolf Cony.) TD 8041 D/A 4-2-66
Canon Ener. Canon Chamolin Grayson-Fed TD 7820 D/A 12-19-83
Nearburg Expl. HBP 53215
Nearburg Expl. 8-1-94 69331 57
Jeanne Shelby HBP 82828
Nearburg (W.R. Antwell) M-H Fed. TD 7952 PTD 10562
Amerada Hess Corp. 11-1-94 82861 70
Amerada Hess Corp. 11-1-94 82861 70
Yates Pet. etal 12-1-96 87247 2
Nearburg Pet. 5-1-93 55900
Liberty Pet. 8-1-93 56355
Nearburg Pet. 4-1-94 57232
Nearburg Pet. 4-1-94 57232
Nearburg Pet. 11-1-94 82950 4
Chi Ener. 11-1-96 85851 92
Enron (Ameriplor, etal) 18605
Belco Fed. RV-4
Ameriplor, etal HBP 18605
Belco HBC E/2
Gulf 5-19-85 J. Meador (S)
(Pennzoil, 1/2) Baber Well Serv. F.H. Jones
Hallwood Pet. etal & NM Venture HBP 34470
Hallwood Pet. HBP E.M. Nominee 1/2 25346
(Belco) Morr. Disc. 5.9 Mil. 2-6-78
Index Fed 12-4500 D/A 9-12-81
Exxon 1-1-92 69345 402 K65
L&T Oil 4-11-91
Pennzoil Brown TD 10836 D/A 11-13-71
Annie Brown J.W. Meador (S)
Santa Fe Ener. 4-1-94 81220 75
Yates Pet. 12-1-93 78214 10
Yates Pet. etal 3-1-2003 90505 120
Yates Pet. 12-1-93 78213 2
Angle Res. 1-1-93 53953
Nearburg Expl. N/2 HBC 53219
Jeanne Shelby HBP 82828
Ameriplor, etal 12828
Nearburg (Union Prod.) Shelby-Fed TD 10700 D/A 12-16-74
Nearburg (Union Prod.) McKittrick-Fed. TD 8132 PTD 10560
Meridian Shelby-Fed. 5-1-2003 28780
(So. Union Prod.) Shelby-Fed. Cisco Disc. 17 Mil. C. 5-31-74 Plug 7-88
McKITTRICK HILLS
Yates Drlg., etal Yates Pet. McKenzie Fed. (Pan Amer.) (Hollowell) TD 10295 (D/A 10-16-65)
Santa Fe Ener. 8-1-96 V-3789 25
Nearburg Expl. HBP 53219
Yates Pet. etal 3-1-2003 90505 120
Nearburg Expl. HBP 53219
Trinity Prod. 11-1-94 82840 2
(Union Expl.) Meridian TD 8075 12826
Urioh Expl. Shelby-Fed. TD 10,800 D/A 9-29-82
Irving Harrison 11-1-2001 87315
Yates Pet. etal 90864 15
Ronadero 11-1-94 82840 2
So. Union Prod. McKittrick-Fed. TD 8,860 D/A 12-17-73
Siete O&G 9-1-94 81899 50
Siete O&G 10-1-94 82853 55
Siete O&G 9-1-94 58799
Siete O&G Black Foot-Fed. TD 4261 Dis. 3-4-91
Marathon Miller Rch. Unit TD 8135 PTD 3578 Del. Disc.
REVELATION
Pennzoil HBC L-3020
Pennzoil 12-15-80 L-5081
Pennzoil HBC L-3020
Pennzoil HBP L-4894
Pennzoil HBC N/2 L-4894
Pennzoil HBC L-3020
Pennzoil HBP L-4894
Quinoco HBP 25348
Exxon 57602
(Inexco) (Four Forest) TD 10960 D/A 10-17-85
Yates Pet. etal 3-1-2003 90505 42
Northern Nat. McKittrick Hills-Fed. TD 8811
Santa Fe E. Sol West
M. Shearn & Sol West 11-1-94 82842 8
Michael Shearn & Sol West III 4-1-95 83554 12
El Paso Nat. HBP 34650
Exxon 1-1-93 69347 76 K65
Santa Fe Ener. 1/2 Siete O&G 9-1-94 58799
Siete O&G etal 10-1-92 69348 67 K65
Siete O&G etal 9-1-94 58799
San Diego C. Savings
U.S.
State

FILE

119904

SwL **SOUTHWESTERN LABORATORIES**

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915-683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. ____

Report No: 37770

Report Date 5-7-86

Date Received 5-5-86

Delivered By B. Arrant

Report of tests on: Water

Client: Nearburg Producing Company

Identification: Sample MH-M Shelby #4
2ND Cisco zone from bottom.

	mg/L
Calcium	1132
Magnesium	335
Sodium & Potassium (Calc. as Na)	1490
Iron	64
Carbonate	None
Bicarbonate	144
Sulfate	1468
Chloride	4113
Total Dissolved Solids @ 180° C	10612
Total Hardness (as Ca CO_3)	4210

Resistivity ------- 0.075 @ 73° F

pH --------- 6.01

Standard Methods, 16th Edition

Technician: LYN, LLC, JDN, GMB

Copies 3 cc Nearburg Producing Company

SOUTHWESTERN LABORATORIES

Gary M. Burch

1343-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS No. W238-86

To Mr. Tom Campbell

Nearburg Producing

P. O. Box 31405

Dallas, TX 75231

Date April 22, 1986

Submitted by _____ Date Rec. April 21, 1986

Well No. Shelby #4 Depth 8116' Formation Cisco

County Eddy Field _____ Source Swab

Resistivity	0.60 @ 68°			
Specific Gravity	1.007			
pH	6.0			
Calcium (Ca)	777			*MPL
Magnesium (Mg)	674			
Chlorides (Cl)	6,000			
Sulfates (SO_4)	Small			
Bicarbonates (HCO_3)	305			
Soluble Iron (Fe)	Moderate			

Remarks:

*Milligrams per liter

Rocky Chambers
Respectfully submitted,

Analyst: Rocky Chambers - Field Engineer

HALLIBURTON COMPANY

cc:

RECEIVED APR 24 1986

NOTICE

This report is limited to the described sample tested. Any use of this report

1343-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS No. W229-86

To Mr. Tom Campbell
Nearburg Producing
P. O. Box 31405
Dallas, TX 75231

Date April 20, 1986

Submitted by _____ Date Rec. April 19, 1986

Well No. Shelby #4 Depth 8116' to 8182' Formation Cisco

County Eddy Field _____ Source Swab

Resistivity	0.54 @ 68°			
Specific Gravity	1.008			
pH	6.8			
Calcium (Ca)	1,665			*MPL
Magnesium (Mg)	471			
Chlorides (Cl)	7,000			
Sulfates (SO_4)	Heavy			
Bicarbonates (HCO_3)	396			
Soluble Iron (Fe)	Heavy			

Remarks:

*Milligrams per liter

Rocky Chambers
Respectfully submitted,

Analyst: Rocky Chambers - Field Engineer

HALLIBURTON COMPANY

cc:

RECEIVED APR 24 1986

NOTICE

This report is limited to the described sample tested. Any use of this report agrees that Halliburton [illegible]

1343-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS No. W227 & W228-86

To Mr. Tom Campbell
Nearburg Producing
P. O. Box 31405
Dallas, TX 75231

Date April 18, 1986

Submitted by _____ Date Rec. April 18, 1986

Well No. Shelby Fed. #4 Depth 8266' to 8298' Formation _____

County Eddy Field _____ Source _____

	MIDDAY	LAST RUN	
Resistivity	.6 @ 68°	.6 @ 68°	
Specific Gravity	1.007	1.007	
pH	6.8	6.8	
Calcium (Ca)	1,388	1,110	*MPL
Magnesium (Mg)	506	438	
Chlorides (Cl)	6,000	6,000	
Sulfates (SO_4)	Heavy	Heavy	
Bicarbonates (HCO_3)	793	732	
Soluble Iron (Fe)	Heavy	Heavy	

Remarks:

*Milligrams per liter

Rocky Chambers
Respectfully submitted,

Analyst: Rocky Chambers - Field Engineer

HALLIBURTON COMPANY

cc:

RECEIVED APR 24 1986

NOTICE

This report is limited to the described sample tested. Any use of this report agrees that Halliburton shall not be liable

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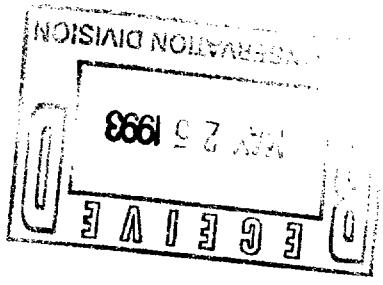
May 25, 1993



HAND-DELIVERED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

10747

Re: Application of Nearburg Producing Company for Salt Water Disposal, Lea County, New Mexico

Dear Mr. LeMay:

Enclosed is a legal application in the above-referenced case which Nearburg Producing Company requests be included on the June 17, 1993 Examiner hearing docket. In accordance with the provisions of Division Rule 701, copies of Nearburg's application on completed Form C-108 will be filed with the Division and provided to all leasehold operators within a mile of the injection well and the owner of the surface of the land on which the well is located at least fifteen days prior to the June 17, 1993 Examiner hearing.

If you need anything further from Nearburg to include this matter on the June 17, 1993 docket, please advise.

Very truly yours,

William F. Carr

WILLIAM F. CARR

WFC:mlh
Enclosure
cc: Mr. Bob Shelton
Mr. Joe Fitzgerald

CASE 10749: Application of Nearburg Producing Company for salt water disposal, Lea County, New Mexico. Applicant seeks authority to convert its M.H. Federal Well No. 1-1N located 660 feet from the South line and 1980 feet from the West line (Unit N) of Section 1, Township 22 South, Range 24 East, and utilize said well to dispose of produced salt water into the Cisco Canyon formation through the perforated interval from approximately 8219 feet to 8380 feet. Said well is located 1 miles east of Little salt springs, ~~New Mexico~~.