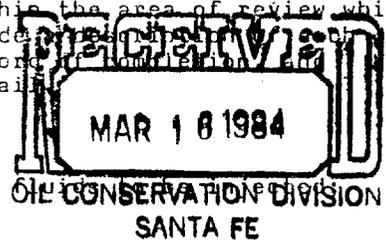


APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: P+O Seating Plant
Address: Drewes S. Gal. New Mexico
Contact party: Carmen C. Orozco Phone: 395-3034
- 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 well's type, construction, date drilled, location, depth, record, and a schematic of any plugged well illustrating all plugging details.
- VII. Attach data on the proposed operation, including:
 1. Proposed average and maximum daily rate and volume of
 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: _____ Title _____

Signature: Carmen C. Orozco Date: 12-28-83

* 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.

P & O OILFIELD SERVICES, INC.

FULLY INSURED — 2-WAY RADIO EQUIPPED
P. O. Drawer S — Phone (505) 395-3034 or 395-2888
JAL, NEW MEXICO 88252

P & O TREATING PLANT Meador A #1

Procedure for re-entry of disposal well.

- I. Roustabouts and welder to dig out cellar and dress 13 3/8 casing.
- II. Set anchor for W.O.R.
- III. Deliver reverse unit, tools, D/C and tubing.
- IV. Move in W.O.R. rig up, pickup one D/C and bit, drill out surface plug.
 - A. Trip in hole with D/C and 2 7/8 work string to 1,474', drill out 1,633' (9 5/8 cut off at 1,633)
 - B. Test 13 3/8 to 500 lbs.
 1. T.O.H. pickup 13 3/8 RTTS. T.I.H. set at 1,620 pressure up on back side to 300 lbs.
 2. Halliburton to squeeze 13 3/8 - 9 5/8.
 3. T.O.H. with RTTS.
 4. Pick up D/C trip in hole, drill out and test.
- V. T.O.H. pickup 8 3/4 bit T.I.H. drill out 3,582 drill out cement and C.I.B.P. at 3,730. Clean out to 4,060.
 1. Tag cement at 4,060 T.O.H. pickup 9 5/8 RTTS.
 2. T.I.H. rig up Halliburton to squeeze perforations from 3,912 - 4,042.
 3. T.I.H. drill out to 4,943 test at 500 lbs. T.O.H.
 4. RTTS to 4,920 squeeze 5 1/2 - 9 5/8 T.O.H.
- VI. T.I.H. with 4 3/4 bit drill out and clean out to 6,000' T.O.H.
- VII. Intend to set C.I.B.P. at 6,000 and perforate from 5,406 - 5,426 eleven shots.
- VIII. Pickup 5½ Model R. packer T.I.H. set at 5,375 plus or minus
- IX. Halliburton to acidize with 1,000 gallon 15% acid and ball sealers.

P & O TREATING PLANT
DRAWER S
JAL, NEW MEXICO 88252
505-395-3034

OWNER: CARMEN C OROZCO

Intended purpose to dispose of produced water at Section 10, Township 25-S, Ranger 36-E.

Disposing in Delaware Sands, approximately 5200 maximum rate, two bbls. per minute @ 750 lbs.

I. Well Data for Meador A #1

- (a) Csg. sizes - 13 3/8 61-68 lbs. set at 1650, 9 5/8 36 lbs., 1633 to 5200' 5 1/2 line 13 lb. from 4943-9550.
- (b) 17 1/2" 1650 925 sxx C1 H with 10% DD 2% CACL 1/2 lb.
12 1/4 5200 700 sxx C1 H 828 sxx TWL+10%, 7 7/8 5200 9550 sxx C1C.
- (c) 2 3/8 J-55 plastic coated tbg. set at approximately 5375.
- (d) Halliburton 5 1/2 MODEL R tension type Packer set at approximately 5375.

- II.
- (a) Inspection zone Delaware Sand, Wildcat
 - (b) Injection Interval 20' perforated.
 - (c) Well drilled for oil & gas production.
 - (d) Perforated depths 9026, 9180, 9394, 9489, 4036, 4042, 3912, 3920, set CIBP spotted 50 sxs C1 H cut-off 9 5/8 1633 spotted 160 sxs C1 H 2% CACL 2 at 1737.
 - (e) No existing wells in 1/2 radius, and no producing wells in the Delaware Sands within a two mile radius.

P+O treating

Plant

Drawer S Gal,

New Mexico.

Monitor A #1

Disposal well

S-10, T-255

R-36E

13 9/8 · 61 to 68 lbs.

R-55 set at 1644

9 5/8 36 lbs R-55

set at 5200

CUT OFF at 1633

5 1/2 Liner R-55

13 lbs From 4943

to 9550

new Plastic Coated

R-55 2 3/4 PPD tubing.

Halico R 4 5 1/2 Packer

set app. 5375

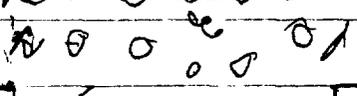
Cast IRON Bridge Plug

app. 4000'

P.O. Disposal Meador A #1 12" 900-600

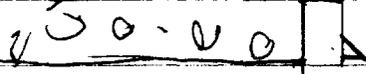
1474'

Top of Cement,



Test 250*

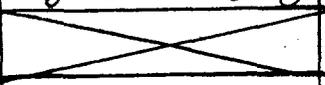
1650' ←
13 3/4 6468*



3582 ←

Cement: ||

3930 ←
9 5/8 36*



CAST Iron Bridge Plug.

Test 250*

4900

5 1/2 #

6000'

Clean Out

Pumped 605 sq cement.
in 7 5/8 Hole

9200'

P & O OILFIELD SERVICES, INC.

FULLY INSURED — 2-WAY RADIO EQUIPPED
P. O. Drawer S — Phone (505) 395-3034 or 395-2888
JAL, NEW MEXICO 88252

February 27, 1984

Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Dear Sir:

The water analysis submitted with the C-108 for Meador A #1 was taken from Johnny Chapman's ranch house which is approximately one quarter mile East of well. The water sample was taken from the Santa Rosa which was found at 320' with pump set at 360'. There are no other fresh water wells within one mile radius of Meador A # 1.

Sincerely,

Carmen C. Orozco

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 284236
TO: Mr. Johnny W. Chapman SAMPLE RECEIVED 2-10-84
P.O. Box 875, Jal, NM RESULTS REPORTED 2-21-84

COMPANY Individual LEASE _____
FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea, STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Drinking water - taken from water well located in section 10. 2-10-84
NO. 2 Maximum contents for drinking water as recommended by the Texas Dept. of Health.
NO. 3 _____
NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.				
pH When Sampled				
pH When Received	8.36			
Bicarbonate as HCO ₃	200			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	70			
Calcium as Ca	14			
Magnesium as Mg	8	125		
Sodium and/or Potassium	155			
Sulfate as SO ₄	165	300		
Chloride as Cl	34	300		
Iron as Fe	1.1	0.30		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	590	1,000		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.				
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Carbonate, as CO ₃	14			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By Waylan C. Martin
Waylan C. Martin, M. A.

P & O OILFIELD SERVICES, INC.

FULLY INSURED — 2-WAY RADIO EQUIPPED
P. O. Drawer S — Phone (505) 395-3034 or 395-2888
JAL, NEW MEXICO 88252

December 22, 1983

Johnny W. Chapman
P.O. Box 875
Jal, NM 88252

Re: P & O Treating Plant

Dear Mr. Chapman,

This is to notify you that P & O Treating Plant will re-enter Meador A #1 at Township 25-S, Range 36-E, Section 10, letter G formation Delaware. The purpose of disposing produced fluids.

Any objections or request for hearing can be made with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501 within fifteen days.

Sincerely,

Carmen C Orozco
P & O Treating Plant

CO/mc

Charlotta Smith

Notary Public in and for the County of Lea
State of New Mexico

11-12-86
Commission Expires:

LEGAL NOTICE

JANUARY 4, 5, 6, 8, 9, 10,
11, 12, 13, 15, 16, 17, 18, 19,
20, 1984

TO WHOM IT MAY CONCERN:

P & O Treating Plant, Drawer S, Jal, New Mexico, 385-3034, owner Carmen C. Orozco will re-enter the Meador A #1 at Township 25-S, Range 36-E, Section 10, Letter G formation Delaware at approximately 5200' for disposal of water. The disposal rate will be approximately 2 barrels per minute, for approximately 2000 barrels per day at 500 pounds.

If interested parties have objections, they need to notify the Oil Conservation Division, P.O. Box 2008, Santa Fe, NM, 87501 within fifteen days.

Carmen C. Orozco

Lea

County, New Mexico

Township 25 S Range 36 E

Township _____ Range _____

Township _____ Range _____

Township _____ Range _____

Form 104—(Four on Township)

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36
6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36



25-36

25-36

Phillips
E-6-82
Phillips
Meador
TD 8550
D/A 8-14-80

Texaco
HBP 053646
U.S. MI
B.W. Dinwiddie, et al

Texaco
HBP 053646
U.S. MI
B.W. Dinwiddie, et al

Getty
HBP
U.S. MI
B.W. Dinwiddie, et al

Getty
HBP
U.S. MI
B.W. Dinwiddie, et al

West Jal
U.S. MI
Frank Anthony(S)

West Jal
U.S. MI
Frank Anthony(S)

Highlands Prod
(Tapat OK)
U.S. MI
B.W. Dinwiddie, S.

MARALCO
JALMALT
YATES UNIT
U.S. MI
B.W. Dinwiddie, S.

West Jal
U.S. MI
Frank Anthony(S)

West Jal
U.S. MI
Frank Anthony(S)