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NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



APD NO. 11/726582

# **ADMINISTRATIVE APPLICATION COVERSHEET**

тни	S COVERSHEET IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AN WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	ID REGULATIONS
Applie	[DHC-Down [PC-Poo [		ngling] nt]
[1]	[A]	PLICATION - Check Those Which Apply for [A]         Location - Spacing Unit - Simultaneous Dedication         NSL       NSP         SD         One Only for [B] or [C]         Commingling - Storage - Measurement         DHC       CTB         PLC       PC         Injection - Disposal - Pressure Increase - Enhanced Oil Recovery         WFX       PMX	7 <b>J 92 LY 10</b>
[2]	NOTIFICAT [A] [B] [C] [D] [E] [F]	<ul> <li>ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply</li> <li>Working, Royalty or Overriding Royalty Interest Owners</li> <li>Offset Operators, Leaseholders or Surface Owner</li> <li>Application is One Which Requires Published Legal Notice</li> <li>Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office</li> <li>For all of the above, Proof of Notification or Publication is Attached, and</li> <li>Waivers are Attached</li> </ul>	/or,

# [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. *I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information* 

and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Juestofpecos. com 0422 Winnan F. ATTORNE **Fitle** Print or Type Name weare e-mail Addre

## HOLLAND & HART LLP AND CAMPBELL & CARR ATTORNEYS AT LAW

DENVER • ASPEN BOULDER • COLORADO SPRINGS DENVER TECH CENTER BILLINGS • BOISE CHEYENNE • JACKSON HOLE SALT LAKE CITY • SANTA FE WASHINGTON, D.C.

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177 25

April 26, 2001

## HAND DELIVERED

Ms. Lori Wrotenbery, Director Oil Conservation Division New Mexico Energy, Minerals and and Natural Resources Department 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

(30-015-22878)

## Re: Gruy Management Company's Application for Administrative Approval of Salt Water Disposal, Eddy County, New Mexico.

Dear Ms. Wrotenbery:

Enclosed is Gruy Management Company's Application for Authorization to Inject (Form C-108) for its Aid "24" State Com Well No. 1 located 660 feet from the South line and 1980 feet from the West line of Section 24, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. With this application, Gruy seeks essentially the same authority to inject as was previously approved for Marbob Energy Corporation in its New Mexico "CY" State Well No. 1 located in offsetting Section 23, Township 17 South, Range 28 East, NMPM (Order SWD-740, March 31, 1999).

This application is made pursuant to Division Rule 701C for administrative approval of Salt water disposal. The proposed injection will be into the Cisco formation of the Pennsylvanian system and will be through perforations from 8514 feet to 8804 feet. The waters to be disposed will be produced water from the Yeso formation wells in the S/2 of Section 24, Township 17 South, Range 28 East.

Publication of the application of Gruy Management Company's intent to utilize the subject well for injection has been made in the Artesia Daily Press on April 24, 2001. A copy of this application has been provided to the owner of the surface of the land upon which this well is located and to all lease hold operators within one-half mile of the well location. All return receipts and the Proof of Publication will be provided to the Division on receipt.

Ms. Lori Wrotenbery, Director April 26, 2001 Page 2

Your attention to this application is appreciated.

Very truly yours, William F. San William F. Carr

enc.

cc: Zeno Farris

## OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

## **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE:       Secondary Recovery       Pressure Maintenance       X       Disposal       Storage         Application qualifies for administrative approval?       X       Yes       No
П.	OPERATOR: Gruy Petroleum Management Co.
	ADDRESS:P.O. Box 140907, Irving TX 75014
	CONTACT PARTY: Zeno Farris PHONE: 972-401-3111
Ш.	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 X 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.	At ach 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.	At ach data on the proposed operation, including:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: Zeno Farris TITLE: Manager, Operations Administration
	NAME:       Zeno Farris       TITLE:       Manager, Operations Administration         SIGNATURE:
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

Side 2

## 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 the 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, 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.

## INDEX

# C-108 ATTACHMENTS

Section III – Well Data, Wellbore Schematic	Page
Aid 24 State Com No. 1 SWD	1 – 3
Section V – Maps	
Aid 24 State Com No. 1 SWD - 1/2 Mile Radius	4
Section VI – Wells within the Area of Review which penetrate injection interval	5
Section VII – Data on Proposed Operation & Section VIII Geologic Data & IX Stimulation	6
Section X - Logs	11
Section XI - Chemical Analysis of fresh water wells within one mile	7
Section XII - Statement of hydrologic connection between disposal zone And underground sources of drinking water.	8
Section XIII & XIV – Proof of Notice	
Surface Owner Listing and Leasehold Operator Listing	9
Publication	10

# **INJECTION WELL DATA SHEET**

Tub	Tubing Size: 2 3/8" Lining Material: Polyetheleyne
Тур	Type of Packer: Baker Loc set
Pac	Packer Setting Depth: 8464
Oth	Other Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection? Yes X No
	If no, for what purpose was the well originally drilled? Gas well
2.	Name of the Injection Formation: Penn - Cisco
ψ	Name of Field or Pool (if applicable):
4:	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. <u>No - Well Was Dry Hole</u>
<u>ب</u>	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Abo - 5700' Oil Zone & Morrow - 10450' Gas Zone

OPERATOR: Gruy Petroleum Management Co.				
WELL NAME & NUMBER: Aid 24 State Com No. 1				
WELL LOCATION: 1980' FWL & 660' FSL	N	24	17-S	28-E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC		<u>WELL CONSTRU</u> Surface Casing	<u>WELL CONSTRUCTION DATA</u> Surface Casing	-
	Hole Size:	17 1/2"	<b>Casing Size:</b> 13 3/8" 48# @ 418'	:" 48# @ 418'
	Cemented with:	475 <b>sx</b> .	or	fu <sup>3</sup>
	Top of Cement:	Sùrface	Method Determined: Circulated	d: Circulated
		Intermediate Casing	te Casing	
	Hole Size:	12 1/4"	Casing Size: 8 5/8" 28# @ 2594'	28# @ 2594'
	Cemented with:	935 <b>sx</b> .	or	<sup>1</sup> <sup>3</sup>
	Top of Cement:	Surface	Method Determined: Circulated	d: Circulated
		Production Casing	n Casing	
	Hole Size:	7 3/4"	<b>Casing Size:</b> 5 1/2" 15# @ 9150	15# @ 9150
	Cemented with:	1310 sx.	or	H <sup>3</sup>
	Top of Cement:	2500	Method Determined: Calculated	d: Calculated
	Total Depth: 9150			
		Injection Interval	Interval	
		8514 feet	to 8804	
		(Perforated or Open Hole; indicate which) Perforated	<b>lole; indicate which)</b> Perforated	

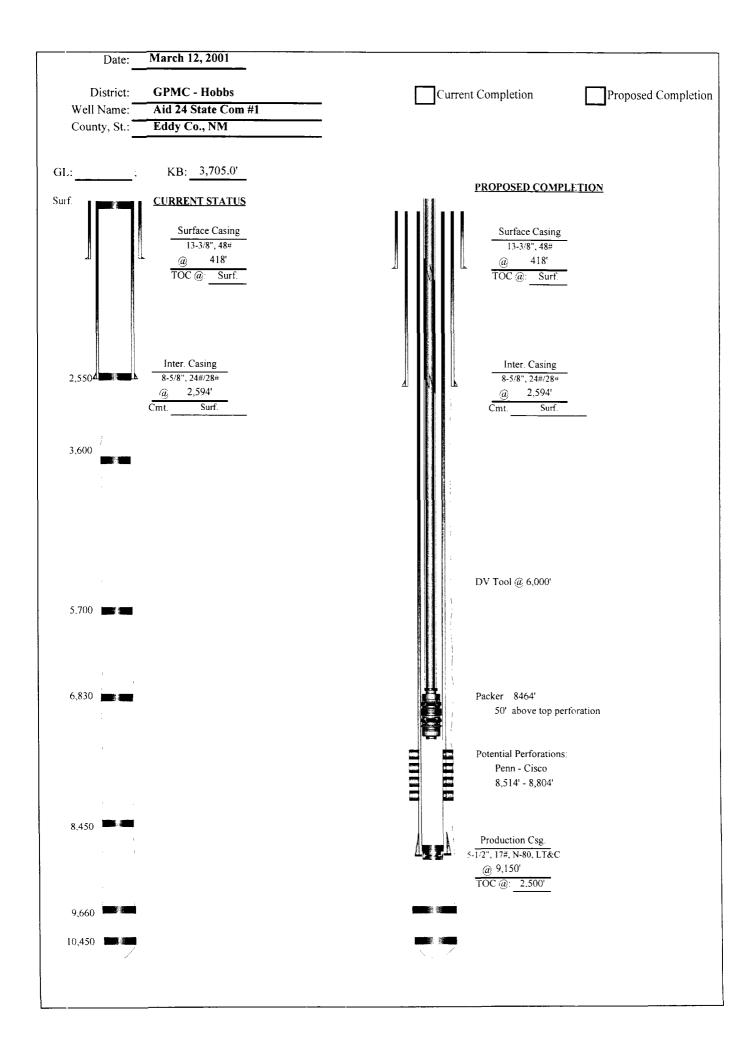
**INJECTION WELL DATA SHEET** 

OPERATOR:

Side 1

# **INJECTION WELL DATA SHEET**

<b>Tubing Size:</b>	Size: 2 3/8" Lining Material: Polyetheleyne
Type of I	Type of Packer: Baker Loc set
Packer S	Packer Setting Depth: 8464
Other T	Other Type of Tubing/Casing Seal (if applicable):
	Additional Data
1. Is t	Is this a new well drilled for injection? Yes X No
lfn	If no, for what purpose was the well originally drilled? Gas well
2. Na	Name of the Injection Formation: Penn - Cisco
3. Na	Name of Field or Pool (if applicable):
4. Ha inte	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. <u>No - Well Was Dry Hole</u>
5. Gi	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _Abo - 5700' Oil Zone & Morrow - 10450' Gas Zone
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- A. Section VI Wells within area of review, which penetrate the injection interval.
  - 1. Gruy Petroleum Management Co. South Empire State Com No. 1, Current status, producing.

Sec. 24M 17S 28E, Eddy County New Mexico. Completed as a Morrow gas producer On November 9, 1980 at a total depth of 10750' with a Morrow perfs at 10481' to 10507'.

2. Casing as per attached completion record

13 3/8" set at 504' with 500 sx cement circulated to surface.
8 5/8" set at 2502' with 1750 sx cement circulated to surface.
5 ½" set at 10750' with 2190 sx cement circulated to surface.

3. No other wells within the area of review penetrate the injection interval.

- A. Section VII -- Data on Proposed Operation
  - 1. Proposed Average & Maximum Daily Rate and Volume of Fluids to be injected:

Average Daily Rate:	1000 B.W./D.
Maximum Daily Rate:	1500 B.W./D.

2. Open or Closed System:

Injection System is a closed system

3. Proposed Average & Maximum Injection Pressures\*

Average Injection Pressure: 800 Maximum Injection Pressure: 1600

\*Until a fracture gradient is determined, maximum injection pressure will be based on .2 PSI/foot gradient.

4. Sources or Appropriate Analysis of Injection Fluid:

The source of the injection water will be from Yeso formation wells in the S/2 of Section 24, Township 17 South, Range 28 East, NMPM.

- B. Section VIII -- Geologic Data on Injection Zone
  - 1. The injection interval of 8514' -- 8804' is the Cisco formation of the Pennsylvanian System, Virginian series with Limestone Lithology. The top of the Cisco Formation occurs at 8504 ' and the bottem at 9154', for a gross thickness of 650'.
  - 2. The only information on underground water in this area is from the New Mexico State Engineer file on a water well located at approximately 660' from the South line and 330 feet from the East line of Section 22, Township 22 South, Range 28. This data shows water overlying the proposed injection zone at a depth of 77.88 feet and identifies the aquifer as "PRC". A copy of this report is attached hereto.
- C. Section IX -- Proposed Stimulation Program:
  - 1. Aid 24 State Com No. 1 SWD

Acidize w/2000 gal. 15%NEFE acid.

FE-1 State of New Mexico
State Engineer
WELL SCHEDULE
Source of data: Obser X Owner Other
Date <u>April 13 19 83</u> Record by <u>Cochran &amp; Groseclose</u>
LOCATION: CountyEddy Map106.2.3
OWNER Turkey Track Ranch
DRILLER Completed 19
TOPO SITUATION Flat Spot Elev 3579
DEPTHft  Rept  Meas Usestock
CASING in to ft Log
PUMP: Type Piston Make
Ser.no./model Size of dischg in.
PRIME MOVER: MakeAermotor HP
Ser.no Factory steel tower Power/Fuel wind
PUMP DRIVE: Gear Head Belt Head Pump Jack
Make Ser.no VHS
WATER LEVEL: 77.88 ft meas April 13 983 aboxwer below
Top of ½" hanger plate
which is <u>1.40</u> ft above LS
PERMANENT RP is
which isft above described MP andft above LS
REMARKS
AQUIFER(S): PRC
Well No on Photo DPN DPN
File No Loc. No 17.28.22.44244
Temp. SE corner & S. Line

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Remarks cont. \_\_\_\_\_at well.

SKETCH:

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Summer of

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INITIAL WATER-		DEPTH	TO WAT	TER			
LEVEL MEASUREMENT	1	Below					
	lst	2nd	3rd	LS			
Date <u>April 13</u> ,19 <u>83</u> Hour <u>3:05<sup>XXI</sup> Obs</u> JC,JCG	79,00	80.00		77.88			
Hour Obs	1.12	2.12		1.40			
Not POA ( ) POA (X)	77.88	77.88		76.48			
W L meas after pump shut Remarks <u>5 minutes bet</u> v	t off <u>2</u> veen mea	0min. surements		ug₩L(			

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## ANDICATE FORMATION TOPS IN CONFORMANCE, WEHE GEOGRAPHICAL SECTION OF STATE

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## IMPORTANT WATER SANDS

## Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from	nt 1990		2060	feet.	Flowed to surface 20
	m				
No. 3, free	m		······	leet.	
No. 1, from	m	ta		.feet.	

FORMATION RECORD (Attach additional sheets if necessary)

From	ſo	Thickness in Feet	Formation	From	Τ.	Thicknes . in Fart	l'erroiten
675	925	250	Yates				
925	1165	240	Seven Rivers		}		
2190	3595	1405	San Andres				
3595	5157	1562	Glorieta		1		
5157	5220	63	Тибб				
5797	6796	999	Abo				
6796	8450	1654	Wolfcamp				
8450	9113	663	Cisco				
9111	9445	332	Canyon				
9445	10025	580	Strawn				
10025	10325	300	Atoka			1	
10325	10750	425	Morrow				

- A. Section XI Chemical analysis of fresh water wells with-in one mile.
  - 1. There are no known fresh water wells with-in one mile of proposed disposal well.

- A. Section XII Statement of Hydrologic connection between disposal zone and underground sources of drinking water.
  - 1. Based upon available geologic and engineering data I find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

NAME: H.C. Lee TITLE: Exploitation Manager SIGNATURE ۲ 4 DATE: March 13, 2001

- A. Section VIII & XIV Proof of Notice.
  - 1. Surface Owners Application mailed by Certified Mail to following:

Bogle Farms P.O. Box 460 Dexter NM 88230-0460

2. Leasehold Operators within ½ mile of proposed injection wells – application mailed by Certified Mail to following:

Mack Energy Corporation P.O. Box 960 Artesia, NM 88210

MARBOB Energy Corporation 324 W. Main Street # 103 Artesia, NM 88210

SDX Resources Corporation 511 W. Ohio Ave. # 601 Midland, TX 79701

Doyle Hartman Oil Operator 500 North Main Midland, TX 79702

3. Publication – (Attached)

## ARTESIA DAILY PRESS LEGAL NOTICE

Gruy Petroleum Management Co., Post Office Box 140907, Irving, Texas 75014, has filed an Application for Authorization to Inject (Oil Conservation Division Form C-108) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Aid 24 State Com Well No. 1 is located 1980 feet from the West line and 660 feet from the South line of Section 24, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. The source of the disposal water will be from wells in the area which produce from the Seven Rivers, Grayburg, San Andres and Yeso formations. The disposal water will be injected into the Cisco formation of the Pennsylvanian system at a depth of 8514feet to 8804 feet. A maximum surface pressure of 1600 pounds (subject to subsequent increase after Division approved testing) and a maximum rate of 1500 BWPD. Any interested party with questions or comments may contact Zeno Farris at Gruy Management Co., Post Office Box 140907, Irving, Texas 75014 or call (972) 401-3111. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis, Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice.

Published in the Atresia Daily Press, Artesia, New Mexico, Wednesday, April 25, 2001.