## C108 APPLICATION FOR AUTHORIZATION TO INJECT

GRM UNIT NO. 001 API# 30-025-21336 OGRID# 234255

**Prepared for:** 

State of New Mexico Energy, Minerals and Natural Resources Department

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

> > Prepared by:



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case No. 14518 Exhibit No. 5 Submitted by: <u>ENSTOR GRAMA RIDGE STORAGE AND</u> <u>TRANSPORTATION, L.L.C.</u> Hearing Date: July 22, 2010 STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL **RESOURCES DEPARTMENT** 

## **Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

## **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE:							
II.	OPERATOR:Enstor Grama Ridge Storage and Transportation, L.L.C.							
	ADDRESS: <u>20329 State Hwy 249, Houston, TX 77070</u>							
	CONTACT PARTY: _Daryl Gee PHONE: _(281) 374-3062							
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. See Attachment III							
IV.	Is this an expansion of an existing project?YesNo If yes, give the Division order number authorizing the project: <u>R-11611</u>							
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. See Attachment V							
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. See Attachment VI							
VII.	Attach data on the proposed operation, including:							
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected; N/A</li> <li>Whether the system is open or closed; N/A</li> <li>Proposed average and maximum injection pressure; See Attachment VII</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, N/A</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.). N/A</li> </ol>							
*VIII	I. 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. See Attachment VIII							
IX.	Describe the proposed stimulation program, if any. N/A							
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). Well Logs are on file with OCD.							
*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. Only one water well falls within the 1-mile radius from the proposal injection well. The chemical analysis of this well is attached (See Attachment XI)							
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. <i>N/A</i>							
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: _Daryl W. Gee TITLE: _Director, Regulatory Affairs and Land Management							
	SIGNATURE:DATE:							

E-MAIL ADDRESS: <u>daryl.gee@enstorinc.com</u> 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, 1220 South St. Francis Dr., 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.

Attachment III

# GRM UNIT #001

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## Well Information

API# Location:

30-025-21336 E-03-225-34E 660 FWL 1980 FWL

# WELL CONSTRUCTION DATA

ı	Hole Size (in)	Casing Size	Cemented with (sx.)	Depth Set (ft)	Top of Cement	<b>Method Determined</b>
Conductor Surface Casing Intermediate Casing Production Casing	r 20" 3 15" 3 95/8" 3 65/8"	16" 65# J-55 10 3/4" 51# & 55.5# 7 5/8" 29.7# & 33.9# 5 1/2 23#	400 1000 500 250	370' 5,643' 11,820' 13,396'	Surface 3,615' 7,270' 11,474'	Visual Tempurature Survey Tempurature Survey Tempurature Survey
INJECTION WELL DATA	Tubing Size: Lining Material: Type of Packer: Packer Setting Depth:		5 1/2" 20# & 3 1/2" 9.3# n/a Model Hornet Retrievable Packer with Carbide Slips 12,760'	# ble Packer with Car	bíde Slips	
<u>Additional Data</u>	(1) Injection Formation:	nation:		Morrow Clastics		
	(2) Name of Field	(2) Name of Field or Pool (if applicable):		Grama Ridge, Morrow	rrow	
	(3) Post work ov	over Perforations:		12815-12902 12978-13026	Morrow 'A' Morrow 'C'	
	(4) Well originall	(4) Well originally drilled for production of Natural Gas	of Natural Gas			
	(5) Perforated in	(5) Perforated intervals and plugging detail.	ii:	12,826' feet to 12,859' 12,981' feet to 12,994' 13,009' feet to 13,025'	,859' ,994' ,025'	
	(6) Name and de overlying the pro	l depths of any oil and gas zones underlying or proposed injection zone:	ones underlying or	No higher or lowe	No higher or lower gas zones are known.	Wn.

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## Enstor Grama Ridge Storage and Transportation LP

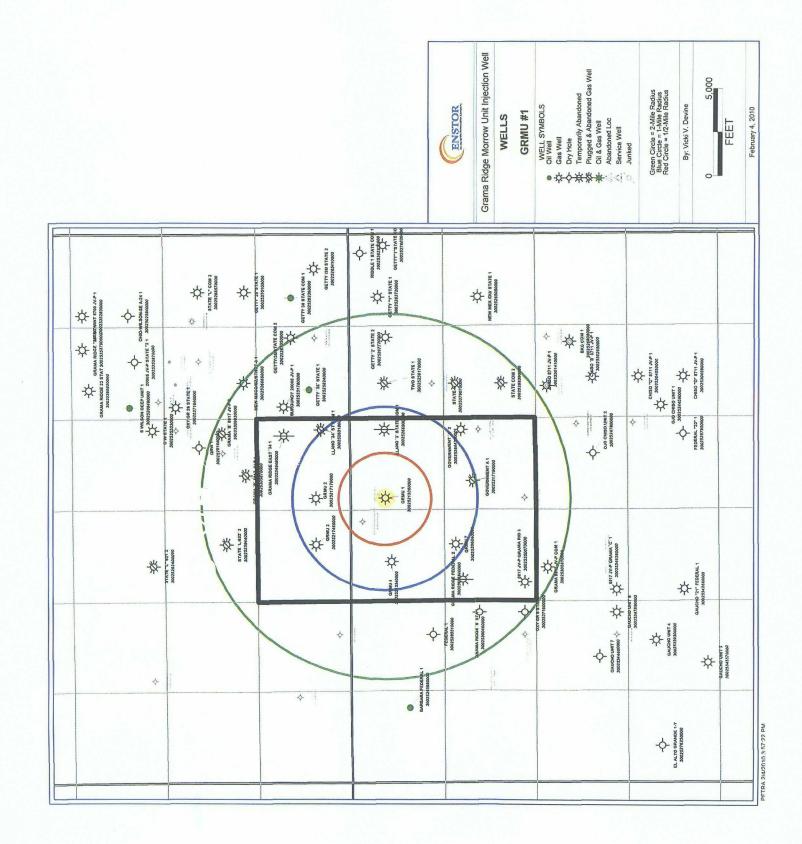
Attachment III (cont.)

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## Attachment VI

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There are no wells within the **<u>Area of Review</u>** which penetrate the injection zone.

## Attachment VII

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3. Proposed Average Injection Surface Pressure = 3850 psi Proposed Maximum Injection Surface Pressure = 5000 psi W

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Attachment VIII

## **Geological Summary**

The Morrow Clastics in the Grama Ridge Storage Unit comprise four stratigraphic sequences, commonly referred to as 'A' through 'D'. Within the Unit sandstones can be developed in all zones, however porosity and permeability, and even the presence or absence of sand, vary widely between wells.

The sandstones in the Morrow at Grama Ridge were deposited during base-level rise into incised valleys cut into the marine Morrow shale during the previous sea level low-stand. Flooding of the valleys resulted in dip-oriented channel-fill sandstones, along with more strike-oriented deltaic and estuarine-marine sandstones. The sandstones are 10 to 30 feet thick, discontinuous, and less than one mile wide.

The gas storage interval in the GRMU #1 includes the Morrow 'A' through the 'D' zones from 12,722 - 13,208. Within the storage interval the Morrow 'A' and 'C' are presently perforated (12,827-12,847; 12,984-12,985; 13,010-13,021). The Morrow 'B' and 'D' contain no sand.

A summary of the target injection intervals in the GRMU #1 follows:

Morrow 'A':

- Depth: 12815-12902
- Zone thickness: 86.6 feet
- Lithology: four sandstone units 4 to 8 feet thick separated by shales and silts
- Gross 'A' Sandstone: 22.5 feet (using a normalized GR cutoff of 50 API)
- Net 'A' Sandstone: 19 feet (Gross SS with >=6% Porosity)

Morrow 'C':

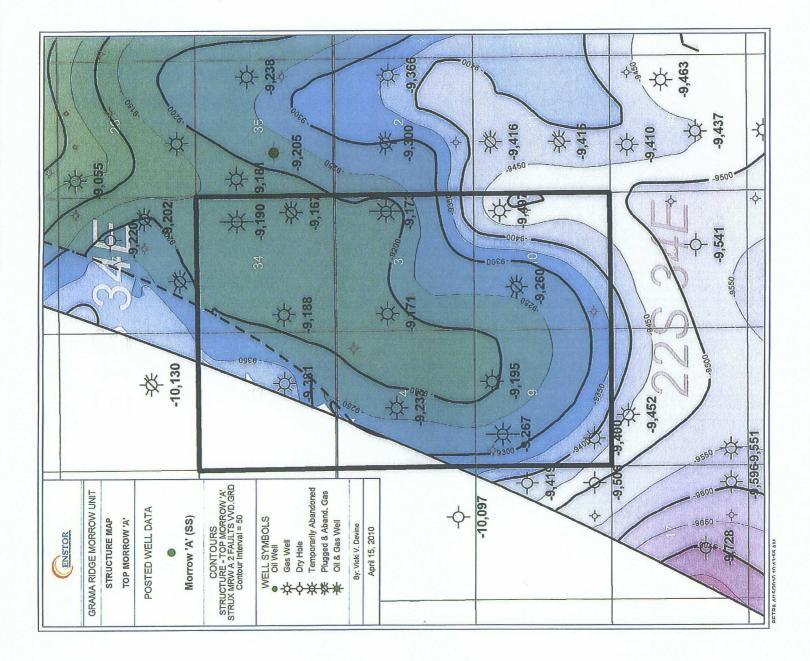
- Depth: 12978-13026
- Zone thickness: 49.2 feet
- Lithology: one thin sandstone
- Gross 'C' Sandstone: 7.5 feet (using a normalized GR cutoff of 50 API)
- Net 'C' Sandstone: 7 feet (Gross SS with >=6% Porosity)

The two (2) major groundwater aquifers found in the region of the GRMU #1 are the Ogallala Formation/Aquifer and the Capitan Aquifer. The Ogallala is the primary aquifer in the southern portions of Lea County. The Ogallala consists of sand, silt, clay and gravel. It is approximately 250 feet thick, and thins toward the southern portion of the County where the GRMU #1 is located. The Ogallala Aquifer is used for municipal, domestic, livestock, irrigation, oil and gas production, and other commercial and industrial purposes. Groundwater in the Ogallala Aquifer generally is of good quality, usually suitable for potable purposes. It can occur under confined conditions at depths of 50 feet or less, but typical depths of water wells in the Ogallala are 100 to 500 feet below ground surface (bgs). Water supply well GR-1/WW-1 installed at the Grama Ridge compressor station in 2007 is assumed to be completed in the Ogallala. The boring was advanced to a total depth of 109 ft., and the groundwater was encountered at a depth of 62 ft. Attached is a summary report of an analysis of groundwater sampled from the well after it was completed.

The Capitan Aquifer also is an important source of groundwater in the southern portion of Lea, County. The Capitan consists of dolomite and limestone strata that are part of the Capitan Reef Complex. Water quality from the Capitan generally is very poor. However, it is used extensively for mining, oil and gas production, livestock watering, and some industrial and domestic purposes. The total depth of wells in the Capitan generally is 500 to 1,000 ft.

There are no known water sources underlying the Morrow Clastics at this location.

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TERCERCO STREET	2
Attack	nment XI

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P.O. BOX 98	Martin Water Labo	ratories, Inc.		709 W. INDIANA	
MIDLAND, TX. 79702 PHONE (432) 683-4521		ANALYSES		MIDLANO, TEXAS 79701 FAX (432) 682-8819	
RESULT OF WATER ANALYSES 607-21					
Mr. Larry Khromer		LABORATORY NO.		5-31-07	
TO:         IMI. Larry Killohiei         SAMPLE RECEIVED         3-51-67           20333 State Hwy 249, Suite 400, Houston, TX 77070         RESULTS REPORTED         6-4-07					
200000 State 1149 240, Buile 100, 1	10481011, 121 77070	RESULTS REPORTED.			
COMPANY Enstor	I	EASE Gr	ama Plant		
SECTION BLOCK SURVEY	COUNTYI	_ea STAT	E	NM	
COUDOS OF CAMPLE AND DATE TAKEN.					
NO. 1 Drinking water - taken 5-	31-07.				
NO. 2 Maximum contents for di	rinking water as recomme	ended by the Texas I	Dept. of Health.		
NO. 3					
NO. 4				<u></u>	
REMARKS:					
	CHEMICAL AND PHYSIC				
	<u>NO. 1</u> 1,0020	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60 * F.	1,0020				
pH When Sampled	7.45		·····	+	
pH When Received	195				
Bicarbonate as HCO,					
Supersaturation as CaCO,	·····			<u> </u>	
Undersaturation as CaCO,	168				
Total Hardness as CaCO,	48				
Calcium as Ca	12				
Magnesium as Mg	34			·	
Sodium and/or Potassium	30	300			
Sulfale as SO,	36	300			
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Additional Determinations And Ramarka		rminations perform			
shows salt levels that comply with S	State Health Department	standards for drinki	ng water. Howe	ver,	
coliform bacteria was present in the	e submitted sample and the	parefore this water s	hould not be con	sumed.	
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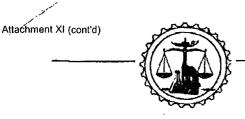
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t Greg Ogden, B.S.

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Attachment XI (cont.)



## Martin Water Laboratories, Inc.

Analysts & Consultants since 1953 Bacterial & Chemical Analysis

To:	Mr. Larry Khromer	Laboratory No.	B607-31
	20333 State Hwy 249, Suite 400	Sample received	5-31-07
	Houston, TX 77070	Sample reported	6-4-07

Company: County: Field: Lease:	Enstor Lea, NM Grama Plant
Subject:	To determine the presence or absence of coliform bacteria.
<u>Method</u> :	USEPA Equivalent Presence/Absence Method 8364 100 ml of sample is combined with premeasured and packaged media broth, incubated 48 hours at 35°C, and examined for yellow color, which indicates the presence of coliforms, or a red color, indicating a negative test.

Source of sample and date taken: Drinking water - taken 5-31-07.

Found (Present)

Not Found (Absent)

<u>Remarks</u>: These results show coliform bacteria to be present in the submitted water sample and therefore this water would not be acceptable for human consumption.

Greg Ogden, B.S.