### C108 APPLICATION FOR AUTHORIZATION TO INJECT

GRM UNIT NO. 002 API# 30-025-21717 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:



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

#### **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE:Secondary RecoveryPressure MaintenanceDisposalX_Storage Application qualifies for administrative approval?YesNo									
II.	OPERATOR:Enstor Grama Ridge Storage and Transportation, L.L.C.									
	ADDRESS: 20329 State Hwy 249, Houston, TX 77070									
	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?YesXNo If yes, give the Division order number authorizing the project: R-11611									
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	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. N/A									
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: <u>Daryl W. Gee</u> <u>TITLE: <u>Director, Regulatory Affairs and Land Management</u></u>									
	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:									

#### 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.

## GRM UNIT #002

Well Information

API# 30-025-21717 Location: L-34-215-34E 1980 FSL 660 FWL

# WELL CONSTRUCTION DATA

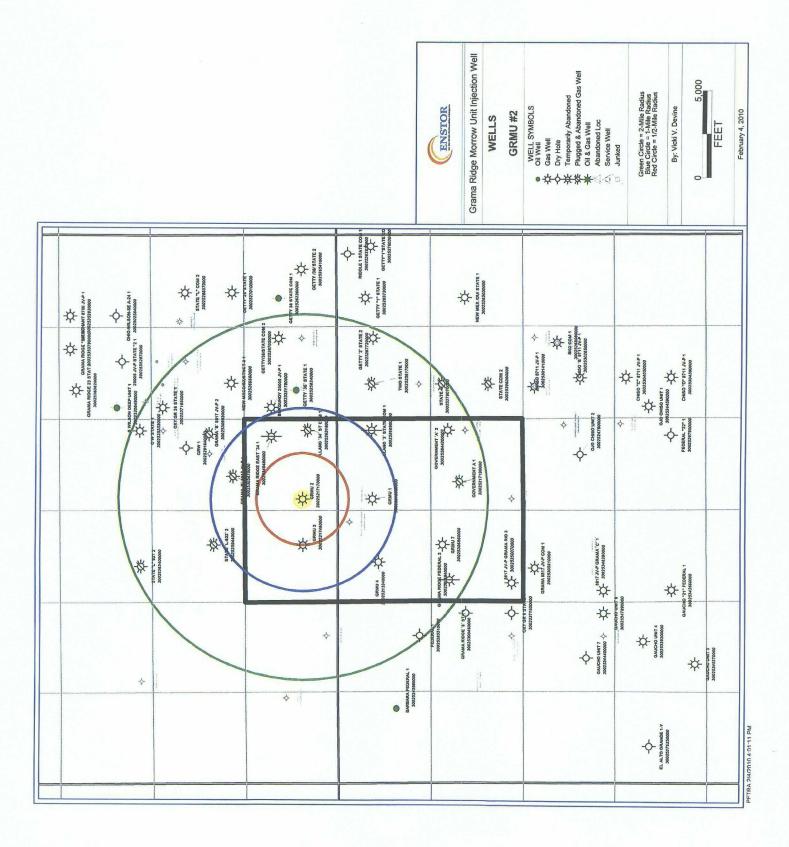
Method Determined	Visual Tempurature Survey Tempurature Survey Tempurature Survey						
Metho	Tempu Tempu Tempu						
Top of Cement	Surface 3,995' 7,270' 11,571'			ırrow	Morrow 'A' Morrow 'C'		,935' ,022' ,074'
Depth Set (ft)	362' 5,726' 11,897' 14,087'		Morrow Clastics	Grama Ridge, Morrow	12914-13003 13003-13084		12,921' feet to 12,935' 13,019' feet to 13,022' 13,050' feet to 13,074'
Cemented with (sx.)	500 900 1000 860	5 1/2" 20# & 3 1/2" 9.3# n/a Baker FB-1 12,826'				of Natural Gas	
<u>Casing Size</u>	20" 95# H-40 13 3/8" 72# & 68# 9 5/8" 29# & 32# 7' 29# & 32# N-80	: Depth:	rmation:	(2) Name of Field or Pool (if applicable):	(3) Post work over Perforations:	(4) Well originally drilled for production of Natural Gas	(5) Perforated intervals and plugging detail:
Hole Size (in)	20" 16" 12 1/2" 8 3/4"	Tubing Size: Lining Material: Type of Packer: Packer Setting Depth:	(1) Injection Formation:	2) Name of Fig	3) Post work o	4) Well origina	5) Perforated
·	Conductor Surface Casing Intermediate Casing Production Casing	INJECTION WELL DATA	Additional Data				

No higher or lower gas zones are known.

(6) Name and depths of any oil and gas zones underlying or overlying the proposed injection zone:

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			Grama Ridge Morrow Unit Injection Well  LEASES  GRMU #2	WELL SYMBOLS  Oil Well  State Gas Well  Chy Hole  Prugade & Abandoned Gas Well  Cold & Gas Well  Abandoned Loc  Abandoned Loc  Service Well	Green Circle = 2-Mile Radius Blue Circle = 1-Mile Radius Red Circle = 1/2-Mile Radius By: Vicki V. Devine	FEET February 4, 2010
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oletion	Formation	12,934 Active Morrow 'B' 13,022 Active Morrow 'C' 13,056 Active Morrow 'C'	Active Bone Spring Inactive Morrow Limestone Active Morrow 'A' Active Morrow 'B' Active Morrow 'B' Active Morrow 'B' Active Morrow 'B' Active Morrow 'C'
of Com	Type	Active   Act	Active Bone S Inactive Strawn Inactive Morrow Active Morrow Active Morrow Active Morrow Active Morrow Active Morrow
Record of Completion	Base		10,712 11,914 12,857 13,056 13,143 13,143 13,198 13,198
	Top	13,020 13,020 13,051	10,663 11,760 12,851 13,029 13,051 13,143 13,246
Depth	10	7.44	13,403
Construction		See attached Wellbore Schematic	See attached Wellbore Schematic
Date	Drilled	NW SW 10/27/1965	3/5/1966
I _	Spot	WW SW	NW SE
Location	Sec	%	33
-	œ	21S 34E	21S 34E
Status		Active 21	Active 21
Well	_	- v	Misc. Natural Gas Storage Well
UWI/API		30-025-21717-0000	30-025-21746-0000
Name		GMR Unit #2 1980' FSL & 660' FWL SEC 34 T-21S R-34E LEA COUNTY, NM	GMR Unit #3 1980' FSL & 1980' FEL SEC 33 T-21 S R-34E LEA COUNTY, NM

#### Attachment VII

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

#### 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 #2 includes the Morrow 'A' through the 'D' zones from 12,756 - 13,235. Within the storage interval the Morrow 'B' and 'C' are presently perforated (12,291-12,934; 13,020-13,022; 13,051-13,056). The Morrow 'A' does contain sand but it is thin (7 feet) and the porous interval even thinner (4 feet). The Morrow 'D' is relatively sand-free.

A summary of the target injection intervals in the GRMU #2 follows:

#### Morrow 'B':

- Depth: 12914-13003
- Zone thickness: 89 feet
- Lithology: three sandstone units 0.5 to 16 feet thick separated by shales and silts
- Gross 'B' Sandstone: 14 feet (using a normalized GR cutoff of 50 API)
- Net 'B' Sandstone: 14 feet (Gross SS with >=6% Porosity)

#### Morrow 'C':

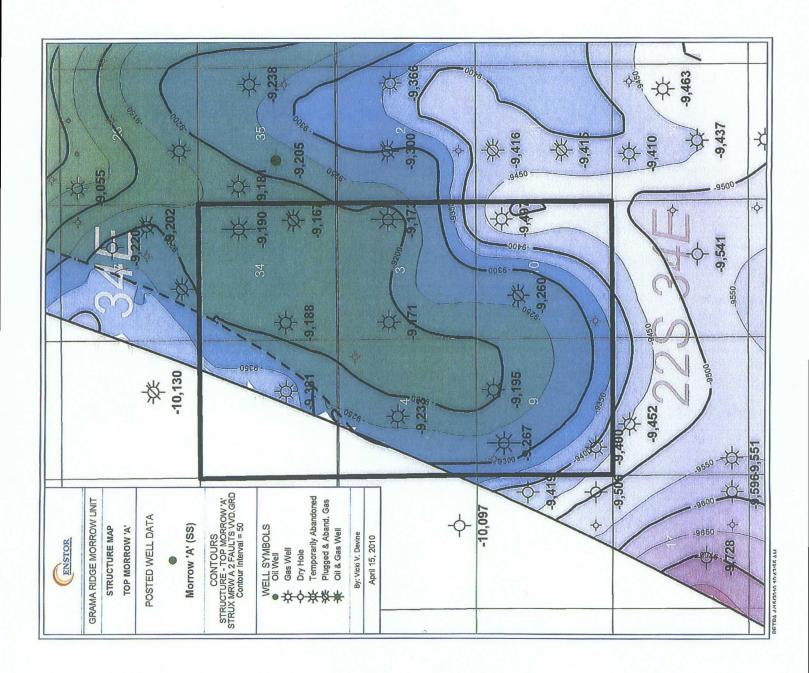
- Depth: 13003-13084
- Zone thickness: 80.7 feet
- Lithology: 4 stacked sandstones with interbedded silts and shales; main sandstone is approximately 30 feet thick.
- Gross 'C' Sandstone: 46.5 feet (using a normalized GR cutoff of 50 API)
- Net 'C' Sandstone: 36.5 feet (Gross SS with >=6% Porosity

The two (2) major groundwater aquifers found in the region of the GRMU #2 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 #2 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.





P.O. BOX 98 MIDLAND, TX. 79702 PHONE (432) 683-4521

#### Martin Water Laboratories, Inc.

709 W. INDIANA MIDLAND, TEXAS 79701 FAX (432) 682-8819

#### RESULT OF WATER ANALYSES

	MEGGET OF WATE	LABORATORYN		607-21	
TO: Mr. Larry Khromer	SAMPLE RECEIV	5-31-07			
20333 State Hwy 249, Suite 400, Housto	RESULTS REPO	6-4-07			
Finstor			Grama Plant		
COMPANY Enstor		LEASE	- Cranta i tant		
FIELD OR POOL		Lea		NM	
SECTION BLOCK SURVEY	COUNTY	Lica	STATE	14147	
SOURCE OF SAMPLE AND DATE TAKEN:					
NO. 1 Drinking water - taken 5-31-07		111 11 70		1.1	
NO. 2 Maximum contents for drinking	g water as recomn	nended by the Te	exas Dept. of Hea	ith.	
NO. 3					
NO. 4			•		
REMARKS:					
	MICAL AND PHYSI	CAL PROPERTIES			
	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60° F.	1.0020				
pH When Sampled					
pH When Received	7.45				
Bicarbonate as HCO,	195				
Supersaturation as CaCO,					
Undersaturation as CaCO,					
Total Hardness es CaCO,	168				
Calcium as Ca	48				
Magnesium as Mg	12				
Sodium and/or Potassium	34				
Sullate as SO.	30	30	0		
Chloride as CI	36	30	0		
Iron as Fe	0.15	0.3	0		
Barium es Ba					
Turbidity, Electric					
Color as Pt					
Total Solide, Calculated	355	1,00	0		
Temperature *F.					
Carbon Dioxide, Calculated					
Distolved Oxygen,					
Hydrogen Sullide	0.0				
Resistivity, ohms/m at 77° F.	24.20				
Suspended Oll					
Filtrable Solids as mg/l					
Volume Filtered, mi					
		',			
Nitrate, as N	4.0	10.	0		
	Results Reported As Mil				
Additional Determinations And Remarks			formed above, the		
shows salt levels that comply with State I	Iealth Departmen	t standards for d	rinking water. He	owever,	
coliform bacteria was present in the subm	itted sample and	therefore this wa	ter should not be	consumed	
	2	· · · · · · · · · · · · · · · · · · ·			
	•	- Co., B. M.			
		11111			
		—— <i>/</i> )		<del></del>	

Form No. 3

Greg Ogden, B.S.



#### Martin Water Laboratories, Inc.

Analysts & Consultants since 1953
Bacterial & Chemical Analysis

To: Mr. Larry Khromer

20333 State Hwy 249, Suite 400

Houston, TX 77070

Laboratory No.

B607-31

Sample received Sample reported

5-31-07 6-4-07

Company:

Enstor

County:

Lea, NM

Field:

Lease:

Grama Plant

Subject:

To determine the presence or absence of coliform bacteria.

Method:

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.