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 4-1-98

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

I.	PURPOSE:       Secondary Recovery       Pressure Maintenance       X       Disposal       Storage         Application qualifies for administrative approval?       X       Yes       No
II.	OPERATOR: Strata Production Company
	ADDRESS: P.O. Box 1030
	CONTACT PARTY: Bruce A. Stubbs PHONE: 505-624-2800
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 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.	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:
	<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: Bruce A. Stubbs TITLE: Consulting Engineer
	SIGNATURE: Baltula DATE: 6-28-02
*	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.

OPERATOR: Strata Production Company

1980' FSL & 1980' FEL  FOOTAGE LOCATION  UNIT LETTER  *******  Hole Size:  Cemented with:  Top of Cement:	1	WELL NAME & NUMBER: Forty Niner Kidge Unit #1				
######################################	######################################		J UNIT LETTER	16 SECTION	23S TOWNSHIP	30E RANGE
26"       Casing Size:       20"         2940       sx. or       or         Method Determined:         17 1/2"       Casing Size:       13 3/8"         3225       sx. or         Circ.       Method Determined:         Production Casing         Production Casing         2075       sx. or         Aethod Determined:         Circ.       Method Determined:         Injection Interval         Imjection Interval         A433	2940 sx. or Method Determined:    Circ.	WELLBORE SCHEMATIC		WELL CC	ONSTRUCTION DATA	<b>₹</b> 1
Circ.   Method Determined:   Intermediate Casing     17 1/2"   Casing Size:   13 3/8"     2325   sx.   or       Circ.   Method Determined:       12 1/4"   Casing Size:   9 5/8"     3075   sx.   or       Circ.   Method Determined:       14,507       15,507       16,507       17,507       18,507       19,507       10,507       1	Circ. Method Determined:    Intermediate Casing   13 3/8"     17 1/2"   Casing Size:   13 3/8"     2225   Sx.   or     Circ.   Method Determined:     Production Casing Size:   9 5/8"     3075   Sx.   or     Circ.   Method Determined:     14,507   Injection Interval     Injection Interval   A433   feet to   5952     Perforated 4433-72', 5422-44', 5769-87', 5935-52'		****** Hole Size:	26"	Casing Size:	20,,
Circ.       Method Determined:         Intermediate Casing       13 3/8"         3225       sx. or         Circ.       Method Determined:         Production Casing       9 5/8"         3075       sx. or         Circ.'       Method Determined:         L14,507       Method Determined:         Injection Interval       14,507         Injection Interval       10 5952	Circ.   Method Determined:   Intermediate Casing   17 1/2"   Casing Size:   13 3/8"     2225   Sx.   or		Cemented with:		or	ff
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17 1/2"   Casing Size:   13 3/8"     3225   sx.   or     Circ.   Method Determined:     Production Casing   9 5/8"     12 1/4"   Casing Size:   9 5/8"     Girc.   Method Determined:     Circ.   Method Determined:     14,507	17 1/2"			Intermediat	c Casing	
Size   Sx.   Or	Size   Sx.   Or		Hole Size:	17 1/2"	Casing Size:	13 3/8"
Circ.       Method Determined:         Production Casing       9 5/8"         12 1/4"       Casing Size: 9 5/8"         3075       sx. or         Circ.'       Method Determined:         14,507         Injection Interval         4433       feet to 5952	Circ.       Method Determined:         Production Casing       9 5/8"         12 1/4"       Casing Size: 9 5/8"         3075       sx. or         Circ.'       Method Determined:         14,507       Injection Interval         4433       feet to 5952         Perforated 4433-72', 5422-44', 5769-87', 5935-52'		Cemented with:		01	ft <sup>3</sup>
Production Casing   Production Casing Size:   9 5/8"	Production Casing   Production Casing Size:   9 5/8"		Top of Cement:	Circ.	Method Determined	
12 1/4"       Casing Size: 9 5/8"         vith: 3075       sx. or ar.         lent: Circ.'       Method Determined: ar.         l: 14,507       Injection Interval         4433       feet to 5952	12 1/4"       Casing Size: 9 5/8"         vith: 3075       sx. or Method Determined: Method Determined: Injection Interval         Example 14,507       Injection Interval         Perforated 4433-72", 5422-44", 5769-87", 5935-52"			Production	. Casing	
3075 sx. or  Circ.' Method Determined:  14,507  Injection Interval  4433 feet to 5952	3075 sx. or  Circ.' Method Determined:  14,507  Injection Interval  4433 feet to 5952  Perforated 4433-72', 5422-44', 5769-87', 5935-52'		Hole Size:	12 1/4"	Casing Size:	9 5/8"
Top of Cement: Circ.' Method Determined:  Total Depth: 14,507  Injection Interval  4433 feet to 5952	Top of Cement:         Circ.'         Method Determined:           Total Depth:         14,507           Injection Interval         4433         feet to 5952           Perforated 4433-72', 5422-44', 5769-87', 5935-52'		Cemented with:		or	ft.
į į			Top of Cement:	Circ.'	Method Determined	
Injection Interval  4433 feet to 5952	Injection Interval   4433   feet to   5952   Perforated 4433-72', 5422-44', 5769-87', 5935-52'		Total Depth:	14,507		
4433 feet to 5952	4433 feet to 5952 Perforated 4433-72', 5422-44', 5769-87', 5935-52'			Injection	<u>Interval</u>	
	Perforated 4433-72', 5422-44', 5769-87', 5935-52'			4433 feet	to 5952	

# INJECTION WELL DATA SHEET

		e in this area:	ne and depths of a
			e in this area:
	7564-7589, & 9343-9419,		e in this area:
Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	Give the name and depths of any oil or gas zones underlying or overlying the proposed	
w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed	w/35' CMT., CIBP @ 9300' w/35' CMT., CIBP @ 7525' w/35' CMT., cibp @ 6510'
Intervals and give plugging detail, i.e. sacks of cement or plug(s) used. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510' Cive the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	Intervals and give plugging detail, i.e. sacks of cement or plug(s) used. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510' Cive the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring.	Intervals and give plugging detail, i.e. sacks of cement or plug(s) used. 13,914-14,18/', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510' Give the name and depths of any oil or gas zones underlying or overlying the proposed	Intervals and give plugging detail, i.e. sacks of cement or plug(s) used. 13,914-14,18/', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'
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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510' Give the name and depths of any oil or gas zones underlying or overlying the proposed intervals area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510' Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510' Give the name and depths of any oil or gas zones underlying or overlying the proposed	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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'
Name of Field or Pool (if applicable): Forty Niner Ridge  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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed intervals area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	Name of Field or Pool (if applicable): Forty Niner Ridge  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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  W/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	Name of Field or Pool (if applicable): Forty Niner Ridge  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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed	Name of Field or Pool (if applicable): Forty Niner Ridge  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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT, cibp @ 6510'
Name of the Injection Formation: Bell Canyon and Cherry Canyon At Telf & Blacky Canyon and Cherry Canyon At Telf & Blacky Canyon and of Field or Pool (if applicable): Forty Niner Ridge  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. 13,914-14,187', 10,690-10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed in this area: Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	le):	le):	le):in any ot i.e. sack
le):	le):	le):in any ot i.e. sack	le):in any ot i.e. sack
Il origini III origini III origini III origini III III III III III III III III III	If no, for what purpose was the well originally drilled?  Name of the Injection Formation:  Bell Canyon and Cherry Canyon  Name of Field or Pool (if applicable):  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.  13.914-14.187, 10.690-10,735, 9343-9419, 7564-74, 7578-89. Plugged CIBP @ 13,735 w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:  Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring.	If no, for what purpose was the well originally drilled?  Name of the Injection Formation:  Name of Field or Pool (if applicable):  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.  13.914-14.187, 10,690-10,735, 9343-9419, 7564-74, 7578-89. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650' w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'  Give the name and depths of any oil or gas zones underlying or overlying the proposed	If no, for what purpose was the well originally drilled?  Name of the Injection Formation:  Name of Field or Pool (if applicable):  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.  10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 10,650'.  w/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 7525' w/ 35' CMT., cibp @ 6510'.
Is this a new well drilled for injection?  If no, for what purpose was the well originally drilled?  Name of the Injection Formation:  Name of Field or Pool (if applicable):  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.  10,735', 9343-9419', 7564-74, 7578-89'. Plugged CIBP @ 13,735' w/ 35' CMT', CIBP @ 10,650' w/ 35' CMT', CIBP @ 9300' w/ 35' CMT', CIBP @ 13,735' w/ 35' CMT', CIBP @ 9300' w/ 35' CMT', CIBP @ 15,550' w/ 35' CMT', CIBP @ 9300' w/ 35' CMT', CIBP @ 15,550' w/ 35' CMT', CIBP @ 9300' w/ 35' CMT', CIBP @ 10,650' w/ 35' C	well drilled for injection?  at purpose was the well origina  Injection Formation:  Id or Pool (if applicable):  ever been perforated in any ot give plugging detail, i.e. sack 3-9419', 7564-74, 7578-89'. F.  CIBP @ 9300' w/ 35' CMT  and depths of any oil or gas the in this area:  Morrow 13,	well drilled for injection?  at purpose was the well origina  Injection Formation:  Id or Pool (if applicable):  ever been perforated in any ot give plugging detail, i.e. sack 3-9419', 7564-74, 7578-89'. F.  CIBP @ 9300' w/ 35' CMT  and depths of any oil or gas	well drilled for injection?  at purpose was the well origin  Injection Formation:  Id or Pool (if applicable):  ever been perforated in any of give plugging detail, i.e. sack  3-9419', 7564-74, 7578-89'. F.  CIBP @ 9300' w/ 35' CMT
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If Type of Tubing/Casing Seal (if applicable):  Additional Data  Additional Data  If no, for what purpose was the well originally drilled?  Name of the Injection Formation:  Bell Canyon and Cherry Canyon  Name of Field or Pool (if applicable):  Forty Niner Ridge  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.  10,735°, 9343-9419°, 7564-74, 7578-89°. Plugged CIBP @ 13,735° w/ 35° CMT., CIBP @ 10,650° w/ 35° CMT., CIBP @ 13,735° w/ 35° CMT., cibp @ 6510°  Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area.  Morrow 13,914-14,392°, Wolfcamp 10,690-10,736°, Bone Spring	Additional Data  Additional Data  Additional Data  If no, for what purpose was the well originally drilled?  Name of the Injection Formation:  Name of the Injection Formation:  Name of Field or Pool (if applicable):  Name of Field or Pool (if applicable):  Name of Field or Pool (if applicable):  Forty Niner Ridge  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.  13.914-14.187, 10.690-10.735, 9343-9419, 7564-74, 7578-89. Plugged CIBP @ 13,735' w/ 35' CMT., CIBP @ 19300' w/ 35' CMT., CIBP @ 13,735' w/ 35' CMT, cibp @ 6510'  W/ 35' CMT., CIBP @ 9300' w/ 35' CMT., CIBP @ 113,914-14,187, 10,690-10,736', Bone Spring injection zone in this area:  Morrow 13,914-14,392', Wolfcamp 10,690-10,736', Bone Spring	If no, for what purpose was the well originally drilled?    Additional Data   Yes X No	Additional Data  Additional Data  Additional Data  States a new well drilled for injection?  If no, for what purpose was the well originally drilled?  Name of the Injection Formation:  Bell Canyon and Cherry Canyon  States and give plugging detail, i.e. sacks of cement or plug(s) used.  13.914-14.187', 10.690-  10.735', 9343-9419', 7564-74, 7578-89', Plugged CIBP @ 13.735' w/ 35' CMT', CIBP @ 10.650'  w/ 35' CMT, CIBP @ 9300' w/ 35' CMT', CIBP @ 6510'  Washington of Tubing a city of the companies of the compani
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### **NEW MEXICO OIL CONSERVATION DIVISION - Form C-108**

### III. SALT WATER DISPOSAL WELL DATA

### Forty Niner Ridge Unit #1: Bell Canyon and Cherry Canyon Intervals

Unit Letter J, 1980' FSL & 1980 FEL, Section 16, T-23-S, R-30-E Eddy County, New Mexico

All pertinent data for the above proposed salt water disposal well is included on the well schematic sheets in this application.

### V. SUBJECT AREA MAPS AND AREA OF REVIEW

A map of the subject area, Forty Niner Ridge Unit #1 lease, including all wells within a 2 mile radius is attached. Also attached is a map showing the subject well's area of-review (or 1/2 mile radius circle).

### VI. TABULATION OF DATA ON WELLS WITHIN AREA OF REVIEW

To date, the following wells are within a half mile radius of the proposed salt water disposal well:

### T-23-S, R-30-E

Section 16: 2 Wells: Forty Niner Ridge Unit #1 and #3

W/2 Section 15 : None NW/4 Section 22 : None N/2 Section 21 : None

Attached is a schematic and summary report for each well within the area of review.

### VII. PROPOSED OPERATION

Currently, Strata Production Company operates the Nash Draw Unit and the Forty-Niner Ridge Unit producing approximately 300 BOPD, 2,500 MCFPD and 1,000 BWPD. The proposed well will be converted as soon as possible to facilitate water disposal. Attached is a schematic of the subject disposal well and its proposed completion and tubing/packer arrangement.

The intent of this application is to seek approval, either through a NMOCD administrative approval, or through a New Mexico Oil Conservation Commission sponsored hearing to convert the subject well to salt water disposal. This application is pursuant to the continuation of development and production on Strata's Nash Draw Unit and the Forty-Niner Ridge Unit, which produce from the Bell Canyon, Cherry Canyon

and Brushy Canyon intervals. The approval of this application will enhance Strata's, efforts to operate the subject lease as optimally as possible and increase the reserve potential by lowering the economic limit on each producing well.

The proposed completion within the Forty Niner ridge Unit #1 wellbore will be in the Bell Canyon and Cherry Canyon interval with perforations between 4433' and 5952'. The packer will be placed within approximately 50' to 100' above the top perforation at +/-4300'. The tubing will be internally plastic coated. The proposed maximum salt water disposal rate is expected to be 1,000 BWPD. The initial disposal rate is expected to be 500 BWPD. Maximum injection pressure will not exceed 886 psig (0.2 psi/ft OCD allowable rate) until a step rate test establishes a higher limit. Injected fluids will be produced fluids from the Bell Canyon, Cherry Canyon and Brushy Canyon intervals. These zones and the proposed injection interval (Bell Canyon and Cherry Canyon) all contain saline waters with total dissolved solids (TDS) and salinity above 10,000 ppm (mg/1). A chemical analysis of the disposed water is included. The system will be closed.

### VIII. GEOLOGICAL DATA

The injection interval consists of an interbedded, fine to medium grain sorted sandstone reservoir. The saturation within the reservoir show a low oil saturation which is non-mobile making the formation non-commercial. The Bell Canyon and Cherry Canyon interval has a total thickness of approximately 2100' within the subject area. It overlays the Brushy Canyon and Bone Spring intervals which are the main productive interval within the subject area.

The known sources of fresh water within the subject area exist from approximately 120' to 400' deep in windmills that are approximately 250' deep. Based on a current geological and engineering data and a petrophysical rock-properties evaluation, there is no evidence of any natural or artificially created open faults within the unitized interval, or above, which would communicate salt water to the shallow fresh water strata. A representative shallow water analysis is included with this application.

### IX. PROPOSED STIMULATION PROGRAM

No additional stimulation is planned for the Bell Canyon and Cherry Canyon intervals. The Bell Canyon was initially stimulated with 3,000 gallons 15% NEFE acid followed by 39,000 gallons of 30# crosslinked gelled 2% KCL water carrying 7,400 pounds of 20-40 sand and 10,000 pounds of 12-20 curable resin coated sand. The Cherry Canyon was initially stimulated with 1,000 gallons of 15% acid followed by 21,000 gallons of gelled KCL water, 5,000 gallons of methanol, 33,000 gallons of CO2, carrying 30,000 pounds of 20-40 sand and 70,000 pounds of 10-20 sand.

### STATEMENT OF SURFACE OWNER AND OFFSET OPERATOR

40 ACRE SURFACE OWNER State of New Mexico

### **OFFSET OPERATORS OR MINERAL INTEREST LEASEE:**

### Forty Niner Ridge Unit - Section 15, 16, 21 & 22: T20S-R30E

Strata Production Company (Shallow)
P.O. Box 1030
Roswell, New Mexico 88202-1030

Texaco Exploration & Production Inc. (Deep) Permian Basin Unit Attn: Mike Mullins 15 Smith Road Midland, Texas 79705 Forty Niner Ridge Unit #1 1980' FSL & 1980' FEL, J-16-23S-30E Eddy County, New Mexico

### Bell Canyon and Cherry Canyon Injection Intervals

### Well Data

Tubing: 2-7/8" Casing: 9 5/8" @ 11,340'

TD: 14,519' PBTD: 6510' Elevation: 3170' GR

### Injection Perforations:

Bell Canyon 4433-72'

Cherry Canyon 5422, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 5769, 71, 73, 75,

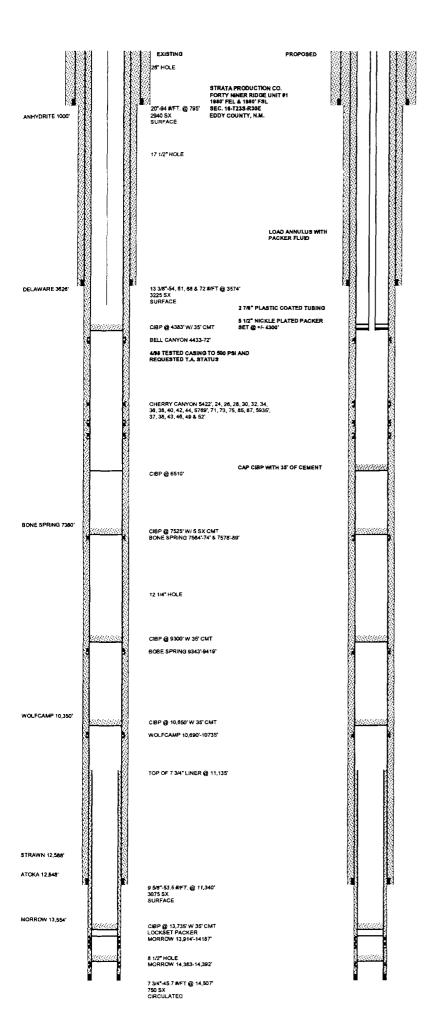
85, 87, 5935, 37, 38, 43, 46, 49 & 52'

CIBP at 6510' (will place 35' of cement on top of CIBP)

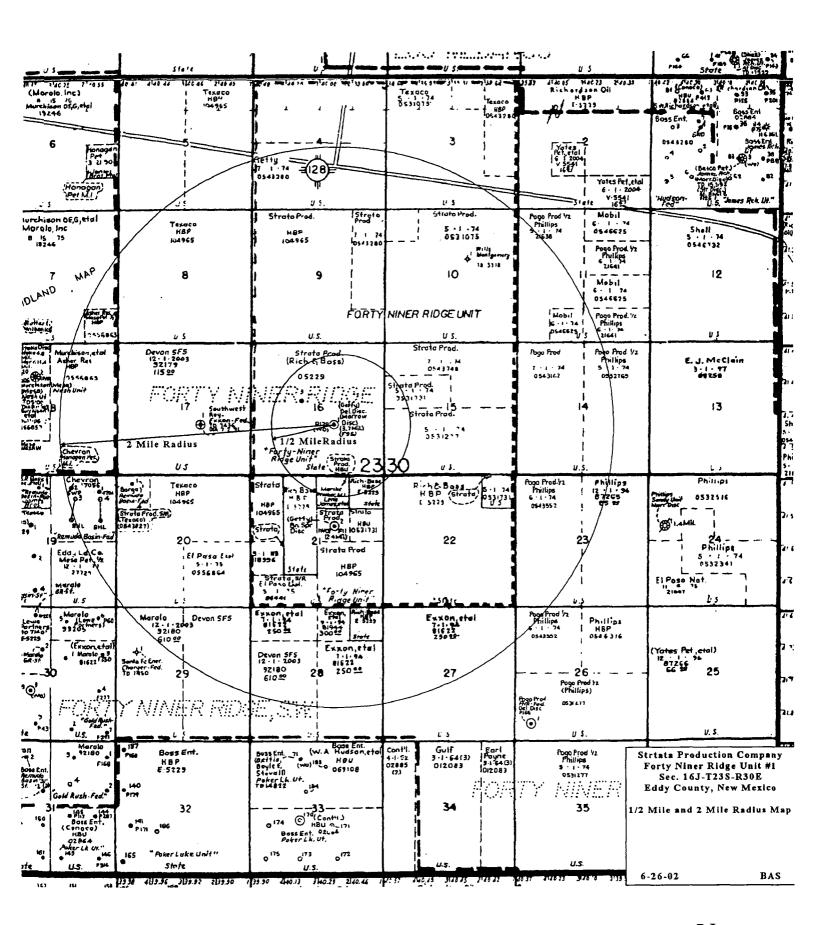
### Plugged Back Perforations:

### **Procedure**

- I. Rig up pulling unit. ND wellhead. NU BOP. P.O.H. with tubing and production equipment.
- 2. TIH with bit and scrapper on 2-7/8" workstring. T.I.H. to 6510'.T.I.H. with bailer and cap CIBP with 35' of cement.
- 3. Test casing at 1000 psi for 30 minutes.
- 4. TIH with 9 5/8" X 2 7/8", 53.5# full bore nickle plated packer on 2-7/8" plastic coated tubing.
- 5. Circulate hole with packer fluid and set packer at +/- 4300'.
- 6. Test annulus to 1000 psi. Establish injection rate into formation.
- 7. Install pumping equipment and related equipment and put well on injection.
- 8. Put well on injection. Maximum injection rate is 1000 BWPD at a maximum pressure of 886 psig at the surface. RD pulling unit. Monitor surface injection pressure and rate.



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17 1/2" HOLE 13 3/8" 54.5 #/FT, @ 420' 650 SX **CIRCULATED** STRATA PRODUCTION COMPANY **FORTY NINER RIDGE UNIT #3** 2310' FNL & 1980' FWL SEC. 16-T23S-R30E **EDDY COUNTY, N.M.** 12 1/4" HOLE LAMAR 3492' **BELL CANYON 3544'** 8 5/8"-32 #/FT @ 3500' -/ 1500 SX **SURFACE CHERRY CANYON 4420' BRUSHY CANON 5784'** 5908-5913' 5952'-5980' PBTD @ 6178' 5 1/2"-15.5 #/FT @ 6400' 700 SX +515 SX

**SURFACE** 

### IALLIBURTON DIVISION LABORATO

## HALLIBURTON SERVICES ARTESIA DISTRICT

### LABORATORY REPORT

No. W121, W122, & W123-93

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inalyst: Eric Jacobson - Operations Engineer

HALLIBURTON SERVICES

VII

NOTICE:

This report is for information only and the content is limited to the sample described. Halliburtor express or implied, as to the accuracy of the contents or results. Any user of this report agrees Hallifor any loss or damage, regardless of cause, including any act or omission of Halliburdon, results.

XI

# Offset Operators Forty Niner Ridge Unit #1 SWD NW/SE Section 16, T23S-R30E, Eddy Coun!y, NM

### Forty Niner Ridge Unit - Section 15, 16, 21 & 22 : T20S-R30E

Strata Production Company (Shallow)
P.O. Box 1030
Roswell, New Mexico 88202-1030

Texaco Exploration & Production Inc. (Deep)
Permian Basin Unit
Attn: Mike Mullins
15 Smith Road
Midland, Texas 79705

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Received by (Please Print Clearly) B. Pate of Delivery C. Signature  X  Agent  Addressee
1. Article Addressed to: Texaco Exploration & Prod, Inc. Permian Basin Unit Attn: Mike Mullins 15 Smith Road	D. Is depivery address different from frem 1.7 ☐ res If YES, effrer delivery address below: ☐ No
Midland, TX 79705	3. Service Type  XX Certified Mail
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(Domestic Mail Only: No Insurance Coverage, Provided) 0 5000 0088 WY **(**] 28, \*\*\*\*\*\*\*\*\*\* 230 PS Form 3800, January 2001 Postage Certified Fee L. LL. <del>ያ</del>ርያካ **569E** 

### **Affidavit of Publication**

State of New Mexico,	
County of Eddy, ss.	
Dawn Higgins being first duly sworn, on oath says:	,
That she is Business of the Carlsbad Current-Argus, a new daily at the City of Carlsbad, in said state of New Mexico and of general said county; that the same is newspaper under the laws of the St notices and advertisements may be printed notice attached hereto was regular and entire edition of said new supplement thereof on the date as follows:	vspaper published d county of Eddy, paid circulation in a duly qualified tate wherein legal bublished; that the published in the vspaper and not in
July 4	, <u>2002</u>
	, 2002
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	, 2002
That the cost of publication is \$ _6 and that payment thereof has been m assessed as court costs.	,
Subscribed and sworn	to before me this
5 day of Subjection	2002 Dbsan
	2/13/05 Public

196

July 4, 2002

**LEGAL NOTICE** 

### APPLICATION FOR WATER DISPOSAL

Strata Production Company, P.O. Box 1030, Roswell, New Mexico 882092-1030, (Contact: Bruce Stubbs, 505-624-2800), has filed Application with the Oil Conservation Division, Energy, Minerals and Natural Resources Department, State of New Mexico, for Administrative Approval and authority to inject salt water into the Forty Niner Ridge Unit #1 well located 1980' FSL and 1980' FEL of Section 16, Township 23 South, Range 30 East, NMPM, Eddy County, New Mexi-

The purpose of the water injection well is to dispose of salt water pro-

duced from the Nash Draw Delaware field as currently designated by the Oil Conservation Division and as may be extended by additional drilling.

Water to be disposed will be injected into the Bell Canyon and Cherry Canyon formation of the Delaware Mountain group at an interval between 4433 feet to 5952 feet beneath the surface.

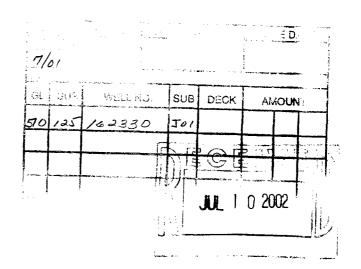
The minimum injection rate is expected to be approximately 500 barrels of water per day. The maximum injection rate is expected to be approximately 1000 barrels of water per day.

Minimum injection pressure is expected to be approximately 300 PSI. The maximum injection pressure is expected to be approximately 886 PSI.

Any interested party may file an objection to the Application or may request a public hearing. Any objection or request for hearing must be filed with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days from the date of publication.

Strata Production Company

By: Bruce Stubbs/ Kelly Britt P.O. Box 1030 Roswell, New Mexico 88202-1030 Telephone 505-624-2800



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	/ <b>)</b>	ate of Delivery
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U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only: No Insurance Coverage, Provided)

Certified Fee

### **Affidavit of Publication**

State of New Mexico, County of Eddy, ss.
Dawn Higgins , being first duly sworn, on oath says:
That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:
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That the cost of publication is \$ 69.87 and that payment thereof has been made and will be assessed as court costs.
Subscribed and sworn to before me this  day of July, 2002  Jephanic Disson
My commission expires 12/13/05 Notary Public

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July 4, 2002

### **LEGAL NOTICE**

### APPLICATION FOR WATER DISPOSAL

Strata Production Company, P.O. Box 1030, Roswell, New Mexico 882092-1030, (Contact: Bruce Stubbs, 505-624-2800), has filed Application with the Oil Conservation Division, Energy, Minerals and Natural Resources Department, State of New Mexico, for Administrative Approval and authority to inject salt water into the Forty Niner Ridge Unit #1 well located 1980' FSL and 1980' FEL of Section 16, Township 23 South, Range 30 East, NMPM, Eddy County, New Mexico.

The purpose of the water injection well is to dispose of salt water pro-

duced from the Nash Draw Delaware field as currently designated by the Oil Conservation Division and as may be extended by additional drilling.

Water to be disposed will be injected into the Bell Canyon and Cherry Canyon formation of the Delaware Mountain group at an interval between 4433 feet to 5952 feet beneath the surface.

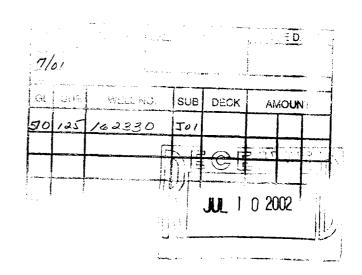
The minimum injection rate is expected to be approximately 500 barrels of water per day. The maximum injection rate is expected to be approximately 1000 barrels of water per day.

Minimum injection pressure is expected to be approximately 300 PSI. The maximum injection pressure is expected to be approximately 886 PSI.

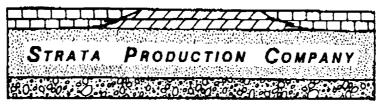
Any interested party may file an objection to the Application or may request a public hearing. Any objection or request for hearing must be filed with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days from the date of publication.

Strata Production Company

By: Bruce Stubbs/ Kelly Britt P.O. Box 1030 Roswell, New Mexico 88202-1030 Telephone 505-624-2800



**POST OFFICE DRAWER 1030** ROSWELL, NM 88202-1030



TELEPHONE (505) 622-1127 FACSIMILE (505) 623-3533

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700 ROSWELL, NEW MEXICO 88201

To:

Will Jones

5056233533

Of:

Oil Conservation Division

Fax:

505-476-3462

Phone:

505-476-3448

Pages:

3, including this cover sheet.

Re:

Saltwater Disposal Application-Forty Niner Ridge Unit #1

Date:

August 26, 2002

Mr. Jones,

Please find attached a copy of the Affidavit of Publication from the Carlsbad Current-Argus and a copy of the return receipt from the New Mexico State Land Office regarding the SWD application on the Forty Niner Ridge Unit #1. If you need anything further for the application please advise.

From the desk of...

### Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Dawn Higgins being first duly sworn, on oath says:	ب
being hist duty sworn, on oant says.	
That she is Business Mana of the Carlsbad Current-Argus, a newspaper daily at the City of Carlsbad, in said count state of New Mexico and of general paid cit said county; that the same is a duly newspaper under the laws of the State wh notices and advertisements may be published printed notice attached hereto was published negular and entire edition of said newspaper supplement thereof on the date as follows, to	published y of Eddy, culation in qualified erein legal ed; that the hed in the and not in
August 21	, 2002
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My commission maires 12/13/0	E CANAGE

**Notary Public** 

August 21, 2002

AMENDED LEGAL NOTICE

APPLICATION FOR WATER DISPOSAL

Strata Production Company, P.O. Box 1030, Roswell, New Mexico i882092-1030, . (Contact: Bruce Stubbs, 505-624-2800); has filed Application with the Oil Conservation Division. Energy, Minerals, and Natural Resources De-partment, State of New Mexico, for Administrative approval and authority to inject salt water into the Forty Niner Ridge Unit #1 well located 1980' FSL and 1980' FEL of Section 16 Township 23 South Range 30 East, NMPM, Eddy County, NewsMexi-CO.

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The minimum injection rate is expected to be approximately 500 barrels of water per day. The maximum injection rate is expected to be approximately 1000 barrels of water per day.

Minimum injection pressure is expected to be approximately 300 PSI. The maximum injection pressure is expected to be approximately 886 PSI.

Any Interested party may file an objection to the Application or may request a public hearing. Any objection or request for hearing must be filed with the Oil Consversion Division, 1220 South St. Francis Drive, Santa Fe. \*Now Mexico 87505 within 15 days from the date of publication.

Strata Production Company

By: Bruce Stubba P.O. Box 1030 Roswell, New Mexico 88202-1030 Telophone 505-624-2800 5056233533

