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SEE ATTACHED FOR CONDITIONS OF APPROVAL The Environmental Technician Date 4/13/99 (This space for Federal or State office use) Approved by	* Conv.of L	Inderground Injection Control I				
CONDITIONS OF APPROVAL The Environmental Technician Date 4/13/99 (This space for Federal or State office use) Approved by		intergreene injection control	ernint and water analys	is is attached.		
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I hereby certify that the foregoing is true and correct         Signed       Signed         (This space for Federal or State office use)         Approved by       Title         Title	UL	L MI IAUNEU FU	n l			
I hereby certify that the foregoing is true and correct         Signed       Signed         (This space for Federal or State office use)         Approved by       Title         Title	COND	TIANS OF ADDE	ANAL .			
Signed     Black     Bullion     Title     Environmental Technician     Date     4/13/99       (This space for Federal or State office use)     Approved by     Title     Date     NAY 27 1999			le shi			
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Approved by Date MAY 2 7 1999		the foregoing is true and correct				
Approved by T tie Date	I hereby certify that Signed	d Bullion	Title Environmer	ntal TechnicianD	ate 4/13/99	
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18 U.S.C. Section 1001, makes it a crime for any person knowingly and willtally to make to any department or agency of the United States any false, fictitious or fraudulent statements	I hereby certify that Signed	eral or State office use)	T tie	a aare	P MAY 27 1999	

\*See Instruction on Reverse Side



Committed to Improvement

Saturation Index Calculations

Champion Technologies, Inc. (Based on the Tomson-Oddo Model)

#### Site Information

Company	Samson Resources	
Field	Federal "D"	
Point	wellbead	
Date	12/12/97	

## Water Analysis (mg/L)

Calcium	1,604
Magnesium	534
Barium	0
Strontium	0
Sodium*	16774
Bicarbonate Alkalinity	414
Sulfate	26
Chloride	30,000
	A

# Appended Data

Dissolved CO2	131 mg/L
H2S	0.0 mg/L
Iron	3.0 mg/L
Resistivity	N/A value
Specific Gravity	1.035 value
TDS	49384 mg/L
Total Hardness	6200 mg/L
Well head pH	6.43 value

Charles In The Charles In Call



\* - Calculated Value

#### **Physical Properties**

Ionic Strength*	0.92	
pH*	6.23	
Temperature	100°F	
Pressure	100 psia	

Calculated Value

## Calcite Calculation Information

Calculation Method	Value
CO2 in Brine	131 mg/L
Bicarbonate Alkalinity Correction(s)	Value
None Used	***

### SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.65	N/A
Gypsum (Calcium Sulfate)	-2.30	N/A
Hemihydrate (Calcium Sulfate)	-2.28	N/A
Anhydrite (Calcium Sulfate)	-2.43	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A

FROM : CHAPARRAL SERVICE INC

PHONE NO. : 525 394 2426

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

ORDER SWD-292

TONEY ANAYA

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THE APPLICATION OF CHAPARRAL SERVICE, INC.

POST OFFICE BOX 2000 STATE LAND OFFICE BUILDING BANTA FE NEW MIDDIG 67501 (565) 827-500

1935 - 1964

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Chaparral Service, Inc. made application to the New Mexico Oil Conservation Division on October 22, 1985, for permission to complete for salt water disposal its Lea No. 1 well located in Unit B of Section 17, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico.

The Division Director finds:

(1) That application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;

(2) That satisfactory information has been provided that all offset operators and surface owners have been duly notified; and

(3) That the applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met.

(4) That no objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED:

That the applicant herein, Chaparral Service, Inc. is hereby authorized to complete its Lea No. 1 well, located in Unit B of Section 17, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the injection of salt water for disposal purposes into the San Andres formation at approximately 4,000 feet to approximately 5,000 feet through 2 7/8 inch plastic lined tubing set in a packer located at approximately 4025 feet.

IT IS FURTHER ORDERED:

That the operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface. That the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

That the injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 800 psi.

That the Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the San Andres formation. That such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this

That the operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be

That the operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER, That jurisdiction of this cause is hereby retained by the Division for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after notice and hearing, the Division may terminate the authority hereby granted in the interest of conservation. That applicant shall submit monthly reports of the disposal operations in accordance with Rule 706 and 1120 of the Division Rules and Regulations.

Approved at Santa Fe, New Mexico, on this 13th day of November, 1985.

STATE OF NEW MEXICO OIL CONFERNATION DIVISION

R. L. STAMETS, Director

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