

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

July 18, 2001

Lori Wrotenbery
Director
Oil Conservation Division

Sage Energy Company P.O. Drawer 3068 Midland, Texas 79702-3068

Attn: Mr. George M. Harris, Jr.

RE: Injection Pressure Increase

North Vacuum (Abo) North Unit Waterflood Project

Lea County, New Mexico

Dear Mr. Harris:

Reference is made to your request dated June 5, 2001 to increase the surface injection pressure on three wells within the North Vacuum (Abo) North Unit Waterflood Project. This request is based on step rate tests conducted on these wells on June 6, 2001. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure for these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well and Location	Maximum Surface Injection Pressure
North Vacuum (Abo) North Unit "5B" Well No. 1 API No. 30-025-24341 Unit Letter P, Section 1, Township 17 South, Range 34 East	4115 PSIG
North Vacuum (Abo) North Unit "10" Well No. 1 API No. 30-025-25059 Unit Letter D, Section 1, Township 17 South, Range 34 East	4410 PSIG
North Vacuum (Abo) North Unit "13" Well No. 1 API No. 30-025-25066 Unit Letter B, Section 2, Township 17 South, Range 34 East	4270 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Lori Wrotenbery

Lou Weakenberry by De

Director

LW/DRC

cc: Oil Conservation Division - Hobbs

Files: 4th Qtr 2001 IPI; Case File No.10103

June 25, 1997

Sage Energy Company P.O. Drawer 3068 Midland, Texas 79702-3068

Attn: Mr. Jay H. Hardy

RE: Injection Pressure Increase,

North Vacuum (Abo) North Unit Waterflood Project,

Lea County, New Mexico

Dear Mr. Hardy:

Reference is made to your request dated April 24, 1997 to increase the surface injection pressure on 16 wells in the above referenced project. This request is based on step rate tests conducted on these wells between April 3 and 16, 1997. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure all of the wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well and Location	Maximum Surface Injection Pressure
North Vacuum (Abo) North Unit Well No.2A-1 Unit Letter N, Section 1, Township 17 South, Range 34 East	4170 PSIG
North Vacuum (Abo) North Unit Well No.5B-1 Unit Letter P, Section 1, Township 17 South, Range 34 East	3945 PSIG
North Vacuum (Abo) North Unit Well No.14-1 Unit Letter D, Section 12, Township 17 South, Range 34 East	4420 PSIG
North Vacuum (Abo) North Unit Well No.14-2 Unit Letter F, Section 12, Township 17 South, Range 34 East	4180 PSIG
North Vacuum (Abo) North Unit Well No.3-1 Unit Letter J, Section 1, Township 17 South, Range 34 East	4520 PSIG
North Vacuum (Abo) North Unit Well No.4A-1 Unit Letter L, Section 1, Township 17 South, Range 34 East	4680 PSIG

Well and Location	Maximum Surface Injection Pressure
North Vacuum (Abo) North Unit Well No.1B-1 Unit Letter F, Section 1, Township 17 South, Range 34 East	3985 PSIG
North Vacuum (Abo) North Unit Well No.19-1 Unit Letter H, Section 2, Township 17 South, Range 34 East	4110 PSIG
North Vacuum (Abo) North Unit Well No.19-2 Unit Letter J, Section 2, Township 17 South, Range 34 East	3865 PSIG
North Vacuum (Abo) North Unit Well No.6C-1 Unit Letter B, Section 1, Township 17 South, Range 34 East	4145 PSIG
North Vacuum (Abo) North Unit Well No.7C-2 Unit Letter H, Section 1, Township 17 South, Range 34 East	3800 PSIG
North Vacuum (Abo) North Unit Well No.21A-1 Unit Letter F, Section 2, Township 17 South, Range 34 East	4130 PSIG
North Vacuum (Abo) North Unit Well No.15-1 Unit Letter N, Section 36, Township 16 South, Range 34 East	4255 PSIG
North Vacuum (Abo) North Unit Well No.10-1 Unit Letter D, Section 1, Township 17 South, Range 34 East	3670 PSIG
North Vacuum (Abo) North Unit Well No.13-1 Unit Letter B, Section 2, Township 17 South, Range 34 East	4100 PSIG
North Vacuum (Abo) North Unit Well No.17-1 Unit Letter P, Section 35, Township 16 South, Range 34 East	3480 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

William J. LeMa

Director

WJL/BES

Oil Conservation Division - Hobbs Files: 3rd Q97 PSI-X; Case File No.10103

ALT FED

SAGE ENERGY COMPANY

P. O. DRAWER 3068
MIDLAND, TEXAS 79702

915/683-5271

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October 8, 1990

New Mexico Oil & Gas Conservation Commission Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504

ATTN: Mr. Jim Morrow

Examiner

RE: North Vacuum (Abo) North Unit Case No. 10103

Lea County, New Mexico

Dear Mr. Morrow:

Sage Energy Company respectfully requests that it be allowed to use unlined injection tubing in the nineteen injection wells of the subject unit. The tubing will be run on Baker Lokset packers and monitored in accordance with Rule 704-A and B. Fresh water from the Ogalalla formation will be used and since the system will be closed, there will be very little corrosion.

The estimated cost to internally plastic coat the injection tubing is \$325,000.00. This is an addition to the 6 plus million dollars to install the waterflood. The initial investment is excessive because we are flooding a deep tight pay at 8400'. Consequently, the economics are marginal; a 25% ROR BFIT and a 4.8 year payout. Thus, Sage and it's working interest owners are seeking relief

from the additional investment of \$325,000.00. Your granting of this request would be greatly appreciated.

Very truly yours,

H. Hardy -President Engineering

CC: Lee Patrick San Antonio

Jim Bruce Hinkle, Cox, Eaton Coffield and Hensley

SAGE ENERGY COMPANY

P. O. DRAWER 3068

MIDLAND, TEXAS 79702

915/683-5271

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October 12, 1990

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504

Attn: Mr. Jim Morrow

RE: North Vacuum (Abo) Unit

Lea County, New Mexico

Case No. 10103

Dear Mr. Morrow:

As you requested at the hearing on October 3, 1990, for Case No. 10103, enclosed is the water analysis of two fresh water wells. These wells are located northwest of the commercial fresh water well which is located in section 36. The water analysis for the commercial well is attached to Sage Energy's C-108 application dated August 10, 1990.

If further information is needed please contact Jay Hardy at the Midland office or Lee Patrick at the San Antonio office.

Sincerely,

Jay/Hardy

Vige President Engineering

CC: James Bruce
 Hinkle, Cox, Eaton, Coffield & Hensley

Lee Patrick Sage Energy San Antonio

File

Enclosures

JH/bb

HOBBS, NEW MEXICO 88240

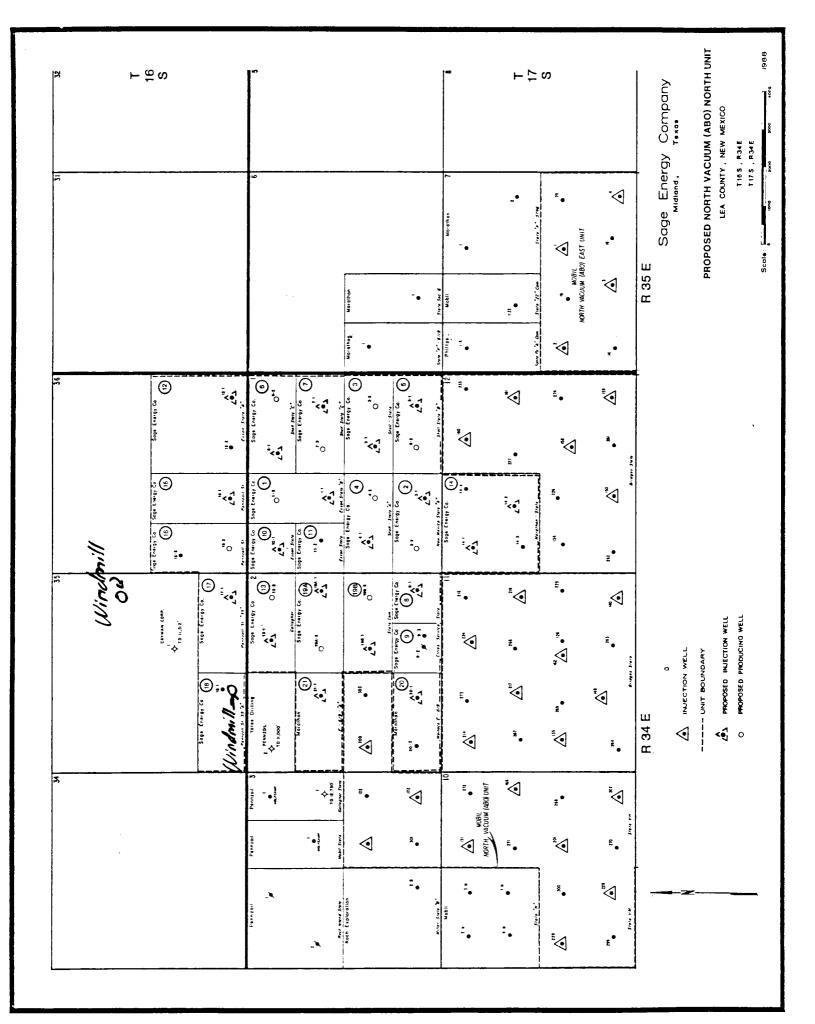
LABORATORY WATER ANALYSIS

No., 227

ToSage_Energy			Date 10-11-90				
			or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton				
Well No.	Depth.						
County	Field_		Source				
Window	Well south o	f Penzoil 35A	Windmill-well no	rth of Penzoil 35#/			
Resistivity	1,5W/4 Sec	35, T-16-5	SE/4 NE	14 Sec. 35 7-16-5 R-34-E			
Specific Gravity	1.000	K-34-E		.095			
рН	6-4			6.5			
Calcium (Ca)	75			70 *MPL			
Magnesium (Mg)	•			9			
Chlorides (CI)	100			100			
Sulfates (SO ₄)	NJI.			NIL			
Bicarbonates (HCO ₃)	61			152.5			
Soluble Iron (Fe)	NIL			NIL			
Remarks:	, W		-	*Milligrams per liter			
11	e , ,	Respectfully submi	tted,	· 			
Analyst Ahr 6	ubank		HALLIBURTON	I COMPANY			
cc: /		Ву	CHEN	HIST			

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.



Injection Pressure Increase Sage Energy Company August 21, 1995 Page 2

WJL/BES

cc: Oil Conservation Division - Hobbs

File: Case File No.10103; PSI-X 3rd QTR 95

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

February 23, 2000

Sage Energy Company P.O. Drawer 3068 Midland, Texas 79702-3068

Attn: Mr. George M. Harris, Jr.

RE: Injection Pressure Increase,

North Vacuum (Abo) North Unit Waterflood Project,

Lea County, New Mexico

Dear Mr. Harris:

Reference is made to your request dated February 22, 2000 to increase the surface injection pressure on seven wells in the above referenced project. This request is based on step rate tests conducted on these wells on February 3rd and 4th, 2000. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure all of the wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well and Location	Maximum Surface Injection Pressure
North Vacuum (Abo) North Unit Well No.1B-1 Unit Letter F, Section 1, Township 17 South, Range 34 East	4680 PSIG
North Vacuum (Abo) North Unit Well No.2A-1 Unit Letter N, Section 1, Township 17 South, Range 34 East	4605 PSIG
North Vacuum (Abo) North Unit Well No.6C-1 Unit Letter B, Section 1, Township 17 South, Range 34 East	4185 PSIG
North Vacuum (Abo) North Unit Well No.17-1 Unit Letter P, Section 35, Township 16 South, Range 34 East	4280 PSIG
North Vacuum (Abo) North Unit Well No.19-1 Unit Letter H, Section 2, Township 17 South, Range 34 East	4850 PSIG
North Vacuum (Abo) North Unit Well No.19-2 Unit Letter J, Section 2, Township 17 South, Range 34 East	4050 PSIG

OIL CONSERVATION DIVISION

F

August 21, 1995

Sage Energy Company P.O. Drawer 3068 Midland, Texas 79702-3068

Attn: Mr. Jay H. Hardy

RE: Injection Pressure Increase North Vacuum (Abo) North Unit Waterflood Project Lea County, New Mexico

Dear Mr. Hardy:

Reference is made to your request dated August 11, 1995 to increase the surface injection pressure on four wells in the above referenced waterflood project. This request is based on a step rate tests conducted between August 1 and 4, 1994. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well and Location	Maximum Injection Surface Pressure
NVANU 6C Well No.1, Unit B, Section 1 of Township 17 South	2740 PSIG
NVANU 7C Well No.2, Unit H, Section 1 of Township 17 South	2610 PSIG
NVANU 21A Well No.1, Unit F, Section 2 of Township 17 South	3480 PSIG
NVANU 15 Well No.1, Unit N, Section 36 of Township 16 South	3120 PSIG
All located in Range 34 East, Lea County, New Mexi	co.

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

William J. LeMa

Director

OFFICE OF THE SECRETARY - P. O. BOX 6429 SANTA FILL NM 87505-6429 5051-927-5950 ADMINISTRATIVE SERVICES DIVISION - P. O. BOX 6429 SANTA FILL NM 87505-6429 5051-827-5925 ENERGY CONSERVATION AND MANAGEMENT DIVISION - P. O. BOX 6429 SANTA FILL NM 87505-6429 5051-827-5920 FORESTRY AND RESOURCES CONSERVATION DIVISION - P. O. BOX 6429 SANTA FILL NM 87504-1948 - 15051-827-5930 MINING AND MINERALS DIVISION - P. O. BOX 6429 SANTA FILL NM 87505-6429 5051-827-5970 OIL CONSERVATION DIVISION - P. O. BOX 6429 SANTA FILL NM 87505-6429 5051-827-5970 OIL CONSERVATION DIVISION - P. O. BOX 6429 SANTA FILL NM 87505-6429 5051-827-7910 PARK AND RECREATION DIVISION - P. O. BOX 6429 SANTA FILL NM 87505-6429 5051-827-7910 OIL CONSERVATION DIVISION - P. O. BOX 6429 SANTA FILL NM 87504-6429 5051-827-7910 OIL CONSERVATION DIVISION - P. O. BOX 6429 SANTA FILL NM 87504-1147 5051-827-7465

Well and Location

North Vacuum (Abo) North Unit Well No.21A-1 Unit Letter F, Section 2, Township 17 South, Range 34 East Maximum Surface Injection Pressure

4500 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Lori Wrotenbery

Director

LW/MWA/kv

cc: Oil Conservation Division - Hobbs

Files: 1st Qtr 2000 IPI; Case File No.10103 (Division Order No. R-9359)

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

April 14, 1992

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Sage Energy Company P.O. Drawer 3068 Midland, Texas 79702

Attention: Jay H. Hardy

Care 10/03

RE: Injection Pressure Increase

North Vacuum (Abo) North Unit

6 Wells

Lea County, New Mexico

Dear Mr. Hardy:

Reference is made to your request dated May 5, 1992, to increase the surface injection pressure on six (6) wells in the North Vacuum (Abo) North Unit. This request is based on step rate tests conducted on these wells between April 29 & May 1, 1992. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

WELL AND LOCATION

MAXIMUM INJECTION SURFACE PRESSURE

NVANU 3 No. 1 1780' FSL & 1980' FEL Unit J, 1-17S-34E 3000 PSIG

NVANU 4A No. 1 1980' FSL & 860' FWL Unit L, 1-17S-34E 3200 PSIG

WELL AND LOCATION	MAXIMUM INJECTION SURFACE PRESSURE
NVANU 5B No. 1 660' FSL & 860' FEL Unit P, 1-17S-34E	3100 PSIG
NVANU 2A No. 1 460' FSL & 1980' FWL Unit N, 1-17S-34E	3200 PSIG
NVANU 14 No. 1 860' FNL & 660' FWL Unit D, 12-17S-34E	3000 PSIG
NVANU 14 No. 2 1980' FNL & 1780' FWL Unit F, 12-17S-34E	2700 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

William J. LeMay

Director

WJL/DC/jc

cc: Oil Conservation Division - Hobbs

File: R-9359 / D. Catanach R. Brown

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HINKLE, COX, EATON, COFFIELD & HENSLEY NJU 15 UNITED 1 A 1 AND SUN 1 1 SUN 1

500 MARQUETTE N.W., SUITE 800 ALBUQUERQUE, NEW MEXICO 87102-2121

(505) 768-1500

FAX (505) 768-1529

OF CCUMSEL O M CALHOUN* MACK EASLEY RICHARD S. MORRIS

CLARENCE E. HINKLE (90H985) WIEL BONDURANT, UR (1913H972) ROY C. SNODGRASS, UR. (9.4H987)

November 14, 1990

POST OFFICE BOX IO ROSWELL, NEW MEXICO 88202

(505) 622-6510 FAX (SO5) 623-9332

280C CLAYDESTA NATIONAL BANK BUILDING

POST OFFICE BOX 3580 MIDLAND, TEXAS 79702 (915) 683-4691 FAX (915) 683-6518

JOO TEAM BANK BUILDING POST OFFICE BOX 9238 AMARILLO, TEXAS 79105 (806) 372-5569 FAX (806) 372-976)

218 MONTEZUMA POST OFFICE BOX 2068 SANTA FE, NEW MEXICO 87504 (505) 982-4554 FAX (505) 982-8623

STEVEN D. ARNOLD
JAMES J. WECHSLEN
NANCY S. CUSACK
JEFFREY L. FOPMAGIARI
JEFFREY L. FOPMAGIARI
JEFFREY D. HEWETT
JAMES BRUCE
JEFFREY W. HELLBERG'
JEFFREY W. HELLBERG'
JEFFREY W. HELLBERG'
THOMAS M. HNASKO
JGHN C. CHAMBERS'
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M. GABEL A. GFOSS
THOMAS D. HAINES, JR. *NOT LICENSED IN NEW MEX CO

_EWIS C COX PAUL W EATON

CONRAD E COFFIELD
HAROLD L HENSLEY UR
STUART D SHANOR

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EPIC D LANPHERE
C. D MARTIN
PAUE U KELLY UP
MARSHALL G, MARTIN
OWEN M LOPEZ
DOUGLAS L LUNSFORD
OGHN L KELLY

JOHN J. KELLY

* CALDER EZZELL, JR.
WILLIAM B. BURFORD*
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THOMAS J MCBRICE STEVEN D. ARNOLD

Mr. Jim Morrow New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504

STANLEY K. KOTOVSKY, JR.
BETTY H. LITTLE*
JEFFREY S. BA RD*
RUTH S. MUSCRAVE
HOWARD R. THOMAS
RATRICIA A WATTS
MACDONNELL GORDON
PEBECCA N. CHOLS JOHNSON
WILLIAM R. JOHNSON

ELLEN S. CASEY
S. BARRY PA SNER
MARGARET CARTER LUDEWIS

WILLIAM PUCHNSON

AMES M. HIDSON

Re: Sage Energy Company (Case No. 10,102 and 10,103)

Dear Mr. Morrow:

Regarding the COPAS attached to the Operating Agreement, I have notified my client of the juxtaposition of figures regarding overhead rates, and they will be sending you a corrected page. Also enclosed is a list of fresh water wells within the area of review.

Very truly yours,

HINKLE, COX, EATON, COFFIELD &

HENSLEY

James Bruce By:

JB:le

SAGE ENERGY COMPANY P. O. DRAWER 3068

MIDLAND, TEXAS 79702

915/683-5271

MEDIE CONTRACTOR

OCT 15'90

October 12, 1990

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504

Attn: Mr. Jim Morrow

RE: North Vacuum (Abo) Unit

Lea County, New Mexico

Case No. 10103

Dear Mr. Morrow:

As you requested at the hearing on October 3, 1990, for Case No. 10103, enclosed is the water analysis of two fresh water wells. These wells are located northwest of the commercial fresh water well which is located in section 36. The water analysis for the commercial well is attached to Sage Energy's C-108 application dated August 10, 1990.

If further information is needed please contact Jay Hardy at the Midland office or Lee Patrick at the San Antonio office.

Sincerely

y/Hardy

President Engineering

CC: James Bruce
 Hinkle, Cox, Eaton, Coffield & Hensley

Lee Patrick Sage Energy San Antonio

File

Enclosures

JH/bb

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYS'

No...<u>227</u>____

To Sage Energy			Date10-11-90					
			This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approved.					
Midland Texas Att: Jay Hardy			of laboratory management; it may however, be used in the course of regular business operations by any person or concern					
			and employees thereof receiving such report from Halliburto Company.					
Submitted by			Date Rec10-11-90					
	•		Formation					
County	Field		Source					
Window	Www.well south of F	Penzoil 35A 7/	SourceSource					
Resistivity	1,5W/4 Sec 3	5, T-11-5	SE14 NE/4 Sec. 35 7-16-5 R-34-E					
Specific Gravity		K-34-E	.095					
рН	6.4		6.5					
Calcium (Ca)	75		70 *MP					
Magnesium (Mg)	•		9					
Chlorides (CI)	100		100					
Sulfates (SO ₄)	NIL		NIL					
Bicarbonates (HCO ₃)	61		152.5					
Soluble Iron (Fe)	NIL		NIL					
Remarks:			*Milligrams per liter					
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Anolyst And Coc.	<u>avaric</u>		HALLIBURTON COMPANY					
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NOTICE

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STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

November 14, 1990

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 ISO5) 827-5800

Mr. James Bruce Hinkle, Cox, Eaton, Coffield & Hensley Attorneys at Law 500 Marquette, N.W., Suite 800 Albuquerque, New Mexico 87102-2121	Re:	CASE NO. 10103 ORDER NO. R-9359 Applicant: Sage Energy Company				
Dear Sir:						
Enclosed herewith are two copies of Division order recently entered in						
Florene Clavidson						
FLORENE DAVIDSON OC Staff Specialist						
Copy of order also sent to:						
Hobbs OCD x Artesia OCD x Aztec OCD						
Other						