



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

257 /

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

March 10, 1998

The Wiser Oil Company  
P.O. Drawer 2568  
Hobbs, New Mexico 88241-2568

Attn: G.M. Jones

**RE: Injection Pressure Increase,  
Skelly Unit Waterflood Project,  
Lea County, New Mexico**

Reference is made to your request dated December 17, 1997, to increase the surface injection pressure on a field-wide group of wells in the above referenced waterflood project. This request is based on 16 step rate tests conducted between September 3 and 24, 1997. These tests will similarly affect 29 additional adjacent wells. The results of the tests and previous data have been reviewed by my staff. At this time, we feel an increase in injection pressure on the wells contained in your request is justified.

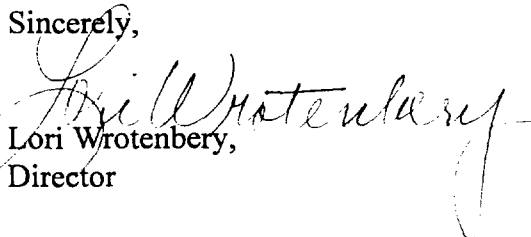
You are therefore authorized to increase the surface injection pressure on the following wells:

<b>Recently Tested Well Name and Number</b>	<b>Adjacent Well Name and Number</b>	<b>ULSTR</b>	<b>Authorized Pressure</b>
Skelly Unit Well No.43		C-22-17S-31E	2064 PSIG
	Skelly Unit Well No.1	N-15-17S-31E	2064 PSIG
	Skelly Unit Well No.127	O-15-17S-31E	2064 PSIG
Skelly Unit Well No.45		G-22-17S-31E	1784 PSIG
	None applicable		
Skelly Unit Well No.51		I-22-17S-31E	1728 PSIG
	Skelly Unit Well No.73	L-23-17S-31E	1728 PSIG
Skelly Unit Well No.53		K-22-17S-31E	2111 PSIG
	Skelly Unit Well No.52	J-22-17S-31E	2111 PSIG
	Skelly Unit Well No.44	F-22-17S-31E	2111 PSIG
Skelly Unit Well No.54		L-22-17S-31E	1923 PSIG
	Skelly Unit Well No.77	P-21-17S-31E	1923 PSIG
	Skelly Unit Well No.66	H-21-17S-31E	1923 PSIG
Skelly Unit Well No.58		P-22-17S-33E	2013 PSIG
	Skelly Unit Well No.121	M-23-17S-31E	2013 PSIG
	Skelly Unit Well No.84	A-27-17S-31E	2013 PSIG
Skelly Unit Well No.59		A-21-17S-31E	1876 PSIG
	Skelly Unit Well No.101	E-22-17S-31E	1876 PSIG
	Skelly Unit Well No.60	B-21-17S-31E	1876 PSIG

<b>Recently Tested Well Name and Number</b>	<b>Adjacent Well Name and Number</b>	<b>ULSTR</b>	<b>Authorized Pressure</b>
Skelly Unit Well No.64		F-21-17S-31E	1742 PSIG
	Skelly Unit Well No.63	D-21-17S-31E	1742 PSIG
	Skelly Unit Well No.62	E-21-17S-31E	1742 PSIG
Skelly Unit Well No.65		G-21-17S-31E	1928 PSIG
	Skelly Unit Well No.61	C-21-17S-31E	1928 PSIG
	Skelly Unit Well No.11	I-21-17S-31E	1928 PSIG
Skelly Unit Well No.68		K-21-17S-31E	1590 PSIG
	Skelly Unit Well No.75	N-21-17S-31E	1590 PSIG
	Skelly Unit Well No.67	J-21-17S-31E	1590 PSIG
Skelly Unit Well No.74		M-21-17S-31E	1348 PSIG
	Skelly Unit Well No.300	I-23-17S-31E	1348 PSIG
	Skelly Unit Well No.90	C-28-17S-31E	1348 PSIG
Skelly Unit Well No.79		N-23-17S-31E	1590 PSIG
	Skelly Unit Well No.82	C-26-17S-31E	1590 PSIG
	Skelly Unit Well No.83	D-26-17S-31E	1590 PSIG
Skelly Unit Well No.86		C-27-17S-31E	1927 PSIG
	Skelly Unit Well No.85	B-27-17S-31E	1927 PSIG
	Skelly Unit Well No.57	O-22-17S-31E	1927 PSIG
Skelly Unit Well No.87		D-27-17S-31E	1824 PSIG
	Skelly Unit Well No.55	M-22-17S-31E	1824 PSIG
	Skelly Unit Well No.56	N-22-17S-31E	1824 PSIG
Skelly Unit Well No.88		A-28-17S-31E	1966 PSIG
	Skelly Unit Well No.95	H-28-17S-31E	1966 PSIG
	Skelly Unit Well No.107	E-27-17S-31E	1966 PSIG
Skelly Unit Well No.93		F-28-17S-31E	1586 PSIG
	Skelly Unit Well No.94	G-28-17S-31E	1586 PSIG
	Skelly Unit Well No.100	L-28-17S-31E	1586 PSIG
Skelly Unit Well No.106		C-15-17S-31E	1898 PSIG
	None applicable		

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

*Injection Pressure Increase*  
*The Wiser Oil Company*  
*March 10, 1998*  
*Page 3*

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LW/BES/kv

cc: Oil Conservation Division - Artesia /  
File: Case File No.3547; WFXs-707, 714, 724; PSI-X 3<sup>rd</sup> QTR 98



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

7 3371

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

RECEIVED

MAR 20 1997

ADMINISTRATIVE ORDER NO. WFX-707

Oil Conservation Division

**APPLICATION OF THE WISER OIL COMPANY TO EXPAND ITS WATERFLOOD  
PROJECT IN THE GRAYBURG-JACKSON POOL IN EDDY COUNTY, NEW MEXICO.**

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order Nos. R-2900 and R-3214 as amended, The Wiser Oil Company has made application to the Division on December 7, 1996 for permission to expand its Skelly Unit Waterflood Project in the Grayburg-Jackson Pool in Eddy County, New Mexico.

**THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection wells are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

**IT IS THEREFORE ORDERED THAT:**

The applicant, The Wiser Oil Company, be and the same is hereby authorized to inject water into the Grayburg and San Andres formations at approximately 3000 feet to approximately 3900 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the wells described on Exhibit "A" attached hereto, for purposes of secondary recovery.

**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.

Prior to commencing injection operations into the wells, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

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.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection wells to no more than .2 psi per foot of depth to the uppermost injection perforation.

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

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

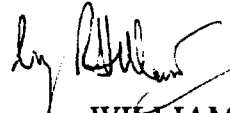
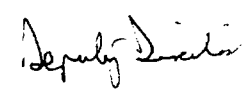
The subject wells shall be governed by all provisions of Division Order Nos. R-2900 and R -3214 as amended, and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

**PROVIDED FURTHER THAT,** jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 11th day of March, 1997.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

   
WILLIAM J. LEMAY  
Director

S E A L

cc: Oil Conservation Division - Artesia  
Ms. Bonnie Jones, J.O. Easley, Inc.  
Files: Case No.3547

EXHIBIT "A"  
DIVISION ORDER NO. WFX-707  
SKELLY UNIT  
APPROVED INJECTION WELLS

Well Name	Well No.	Location	Unit	S-T-R	Injection Perforations	Packer Depth	Tubing Size	Pressure
Skelly Unit	11	1980' FSL & 660' FWL	I	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	17	660' FNL & 1930' FEL	B	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	18	660' FNL & 660' FWL	D	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	20	1980' FNL & 1980' FEL	G	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	23	1980' FSL & 1980' FWL	K	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	25	1980' FSL & 660' FEL	I	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	27	1980' FSL & 1980' FWL	K	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	28	1980' FSL & 660' FWL	L	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	29	660' FSL & 660' FWL	M	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	31	660' FSL & 1980' FEL	O	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	33	660' FSL & 660' FWL	M	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	36	660' FSL & 660' FEL	P	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	37	660' FNL & 660' FEL	A	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	39	660' FNL & 1980' FWL	C	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	41	330' FNL & 330' FEL	A	22-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	43	765' FNL & 2058' FWL	C	22-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	45	1980' FNL & 1980' FEL	G	22-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	47	1980' FNL & 660' FWL	E	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	49	1980' FNL & 1980' FEL	G	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	50	1980' FNL & 660' FEL	H	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	51	1980' FSL & 660' FEL	I	22-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	55	660' FSL & 660' FWL	M	22-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft

Well Name	Well No.	Location	Unit	S-T-R	Injection Perforations	Packer Depth	Tubing Size	Pressure
Skelly Unit	57	660' FSL & 1980' FEL	O	22-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	59	660' FNL & 660' FEL	A	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	60	660' FNL & 1980' FEL	B	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	61	660' FNL & 1980' FWL	C	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	62	660' FNL & 660' FWL	D	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	63	1980' FNL & 660' FWL	E	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	65	2080' FNL & 1980' FEL	G	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	68	1650' FSL & 1980' FWL	K	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	70	1980' FSL & 660' FEL	I	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	71	1980' FSL & 1980' FEL	J	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	72	1980' FSL & 1980' FWL	K	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	74	530' FSL & 330' FWL	M	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	76	720' FSL & 1980' FEL	O	21-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	80	660' FSL & 1980' FEL	O	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	82	660' FNL & 1980' FWL	C	26-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	84	660' FNL & 660' FEL	A	27-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	86	660' FNL & 1900' FWL	C	27-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	88	660' FNL & 660' FEL	A	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	90	680' FNL & 1980' FWL	C	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	91	660' FNL & 660' FWL	D	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	92	1980' FNL & 660' FWL	E	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	93	1980' FNL & 1980' FWL	F	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	94	1980' FNL & 1980' FEL	G	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	95	1980' FNL & 660' FEL	H	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	97	1980' FNL & 1980' FEL	G	27-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	98	1980' FSL & 1980' FEL	J	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft



Well Name	Well No.	Location	Unit	S-T-R	Injection Perforations	Packer Depth	Tubing Size	Pressure
Skelly Unit	99	1980' FSL & 1980' FWL	K	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	100	1980' FSL & 660' FWL	L	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	101	1980' FNL & 660' FWL	E	22-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	103	560' FNL & 1980' FWL	C	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	104	1980' FNL & 660' FWL	E	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	106	660' FNL & 1980' FWL	C	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	107	1760' FNL & 660' FWL	E	27-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	108	660' FNL & 660' FEL	A	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	109	1980' FNL & 660' FWL	E	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	110	1980' FNL & 1980' FEL	G	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	111	1980' FSL & 660' FEL	I	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	112	660' FNL & 660' FEL	A	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	113	1980' FNL & 660' FEL	H	14-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	121	660' FSL & 660' FWL	M	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft

All wells located in Eddy County, New Mexico

Note: Some wells to be re-completed may have perforated intervals other than shown as long as packer setting and maximum pressure are determined as outlined in body of order.



ADMINISTRATIVE ORDER NO. WFX-714

***APPLICATION OF THE WISER OIL COMPANY TO EXPAND ITS WATERFLOOD  
PROJECT IN THE GRAYBURG-JACKSON POOL IN EDDY COUNTY, NEW MEXICO.***

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order Nos. R-2900 and R-3214 as amended, The Wiser Oil Company has made application to the Division on March 13, 1997 for permission to expand its Skelly Unit Waterflood Project in the Grayburg-Jackson Pool in Eddy County, New Mexico.

**THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection wells are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

**IT IS THEREFORE ORDERED THAT:**

The applicant, The Wiser Oil Company, be and the same is hereby authorized to inject water into the Grayburg and San Andres formations at approximately 3000 feet to approximately 3900 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the wells described on Exhibit "A" attached hereto, for purposes of secondary recovery.

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.

Prior to commencing injection operations into the wells, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

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.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection wells to no more than .2 psi per foot of depth to the uppermost injection perforation.

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

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject wells shall be governed by all provisions of Division Order Nos. R-2900 and R -3214 as amended, and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

*Administrative Order WFX-714*

*The Wiser Oil Company*

*May 20, 1997*

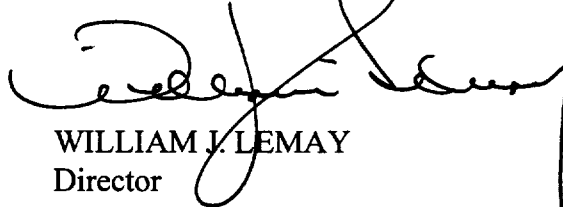
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The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 20th day of May, 1997.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY  
Director

S E A L

cc: Oil Conservation Division - Artesia  
Ms. Bonnie Jones, J.O. Easley, Inc.  
Files: Case No.3547 /

EXHIBIT "A"  
DIVISION ORDER NO. WFX-714  
**SKELLY UNIT**  
APPROVED INJECTION WELLS

<i>Well Name</i>	<i>Well No.</i>	<i>Location</i>	<i>Unit</i>	<i>S-T-R</i>	<i>Injection Interval</i>	<i>Packer Depth</i>	<i>Tubing Size</i>	<i>Maximum Pressure</i>
Skelly Unit	1	660' FSL & 1980' FWL	N	15-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	35	660' FSL & 1930' FEL	O	14-T17S-R31E	3342' to 3553'	3242'	2 3/8"	668 psi
Skelly Unit	148	560' FNL & 560' FEL	P	14-T17S-R31E	3342' to 3628'	3242'	2 3/8"	668 psi
Skelly Unit	300*	1880' FSL & 1980' FEL	I	23-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft
Skelly Unit	301*	1980' FNL & 560' FWL	E	28-T17S-R31E	To Be Determined	TBD	2 3/8"	.2 psi/ft

All wells located in Eddy County, New Mexico

Note: Some wells to be re-completed may have perforated intervals other than shown as long as packer setting and maximum pressure are determined as outlined in body of order.

\* Replacement Wells for Skelly Unit Well Nos. 71 and 92 respectively.



*ADMINISTRATIVE ORDER NO. WFX-724*

***APPLICATION OF THE WISER OIL COMPANY TO EXPAND ITS  
WATERFLOOD PROJECT IN THE MALJAMAR GRAYBURG-JACKSON  
POOL IN LEA COUNTY, NEW MEXICO.***

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order Nos. R-2900 and R-3214, The Wiser Oil Company has made application to the Division on August 18, 1997 for permission to expand its Skelly Unit Waterflood Project in the Grayburg-Jackson Pool in Lea County, New Mexico.

**THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection wells are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

**IT IS THEREFORE ORDERED THAT:**

The applicant, The Wiser Oil Company, be and the same is hereby authorized to inject water into the Seven Rivers, Grayburg and San Andres formations at approximately 2600 feet to approximately 4000 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the following described wells for purposes of secondary recovery, to wit:

**Skelly Unit Well No.127**  
560' FSL & 1880' FEL, Unit Letter 'O'  
Section 15, Township 17 South, Range 31 East, NMPM  
Injection Interval: *To be Determined*  
Maximum Injection Pressure: .2 psi per foot to uppermost perforation

**Skelly Unit Well No.302**  
600' FNL & 583' FWL, Unit Letter 'D'  
Section 28, Township 17 South, Range 31 East, NMPM  
Injection Interval: *Dual Completion - To be Determined*  
Maximum Injection Pressure: .2 psi/ft to uppermost perforation

**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.

Prior to commencing injection operations into the wells, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

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.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection wells to no more than .2 psi per foot of depth to the uppermost injection perforation.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluid from the Seven Rivers, Grayburg or San Andres formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing or packer in said wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

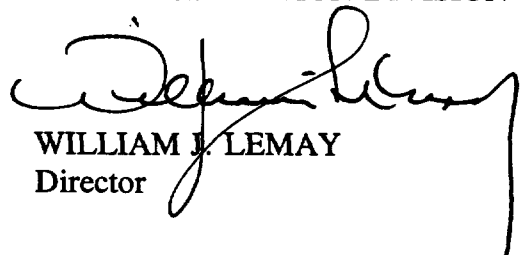
The subject wells shall be governed by all provisions of Division Order Nos. R-2900 and R-3214, and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 24th day of November, 1997.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director

S E A L

cc: Oil Conservation Division - Hobbs  
Ms. Bonnie Jones, J.O. Easley, Inc.  
Files: Case No.3547 /