STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



GARREY CARRUTHERS

March 15, 1990

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 97504 (505) 827-5800

Mr. William F. Carr Campbell & Black Attorneys at Law Post Office Box 2208 San**a**a Fe, New Mexico Re: CASE NO. _____9810 ORDER NO. _______9810

Applicant:

Yates Drilling Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

Florene Alavidson

FLORENE DAVIDSON OC Staff Specialist

Copy of order also sent to:

Hobbs OCD x Artesia OCD x Aztec OCD

Other_____

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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BRUCE KING

July 15, 1991

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

Yates Drilling Company 105 South Fourth Street Artesia, New Mexico 88210

> RE: Injection Pressure Increase Cactus Queen Unit Waterflood Project Chaves County, New Mexico

Dear Sir:

Reference is made to your request dated June 3, 1991, to increase the surface injection pressure on the two wells within the Cactus Queen Unit Waterflood Project. This request is based on step rate tests conducted on these wells on May 29, 1991. 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 well.

WELL AND LOCATION	MAXIMUM INJECTION SURFACE PRESSURE
Cactus Queen Unit Well No. 1 Unit K, Section 27, T-12 South, R-31 East, NMPM	980 PSIG
Cactus Queen Unit Well No. 5 Unit C, Section 34, T-12 South, R-31 East, NMPM	1100 PSIG

Both in Chaves County, New Mexico

Yates Drilling Company July 15, 1991 Page 2

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 - Artesia File: Case No. R-9810 -D. Catanach R. Brown

NO WAITING	PERIOD		
COMPANY:		Dritting Company	
ADDRESS:	105	South Faurth Street	
CITY, STATE		Antiero, New Mexice 28210	
ATTENTION:			

Injection Pressure Increase Lactus Queen Unit Wale flow Project Re:

Chause County, New Mexico

Dear Sir:

Reference is made to your request dated $\frac{6ne^3}{197}$, to increase the surface injection pressure on $\frac{6ne^3}{160}$, $\frac{197}{160}$, to $\frac{196}{160}$, $\frac{197}{160}$. 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 & Location

actors alecen Und Well No 1 mills, Section 27. T- Debuch, 2 31 E.L. Nomen

Cietos Gier and and Rol 5 Und C, Section 34, T-12 Bill, 2-312, umpm

Both in Chaus County, New Maxic

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.

xc: I. GALLEGOS D. CATANACH FILE-Case No 9210 OCD- Hobber R. Enwon

Maximum Injection Surface Pressure

980 PS16

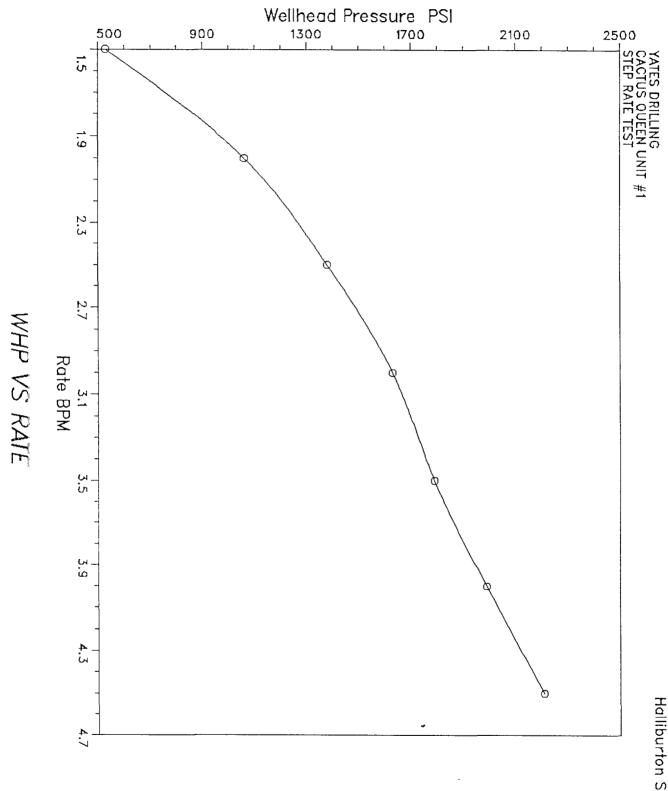
1100 AS16

 _	State of New Me	vico		
Submit 3 Copies to Appropriate District Office	Energy, Minerals and Natural Re		IVISION	Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATIO		WELL API NO.	
· · · ·	P.O. Box 208		20 ₃₀₋₀₀₅₋₂₁₀₃	7
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease	<u> </u>
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410				
			LH-1648	
(DO NOT USE THIS FORM FOR PRO DIFFERENT RESER (FORM C-	CES AND REPORTS ON WEL PPOSALS TO DRILL OR TO DEEPEN VOIR. USE "APPLICATION FOR PEF 101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Ag	greement Name
1. Type of Well:	Hator	Injection Well		
well. well. 2. Name of Operator	OTHER WALLEL		Cactus Queen	Unit
			8. Well No.	
Yates Drilling 3. Address of Operator	Company		9. Pool name or Wildcat	
105 S. 4th Stre	et, Artesia, NM 88210	······································	SE Chaves On Ga	as Area Assoc.
4. Well Location			<u>^</u>	
Unit Letter \underline{K} : $\underline{165}$	O Feet From The South	Line and231	0 Feet From The _	West Line
Section 27	Township 12S Rail 10. Elevation (Show whether 1 4438' GI	DF, RKB, RT, GR, etc.)	NMPM Chave	S County
11. Check A NOTICE OF INT	Appropriate Box to Indicate N ENTION TO:		eport, or Other Data SEQUENT REPC	
		REMEDIAL WORK		
	CHANGE PLANS	COMMENCE DRILLING	OPNS. DPLUG	
PULL OR ALTER CASING		CASING TEST AND CE		
OTHER: <u>Request</u> increase i		OTHER:		
12. Describe Proposed or Completed Operat work) SEE RULE 1103.	Pressure tions (Clearly state all pertinent details, an	d give pertinent dates, inclu	ding estimated date of starting	g any proposed
data fron this test a indicate the (wellhea Under the terms of or approval of an increa	Test was conducted on long with Rate vs. Pres d) pressure at which th der R-9075 and R-9075-H se in injection pressur questing approval of a	ssure plots are ne formation fin 3, we are permit ce, if supported	attached. Calc est parts is 108 tted to request 1 by a Step-Rate	ulations 2 psig. administrative Injection Test.
I hereby certify that the information above is frue	and complete to the best of my knowledge and	belief.		
SIGNATURE		EEngineer		пе6-3-91
TYPE OR PRINT NAME			Тея	LEPHONE NO.
(This space for State Use)				
		_		
APPROVED BY	mi	E	DA	TE
CONDITIONS OF APPROVAL, IF ANY:				

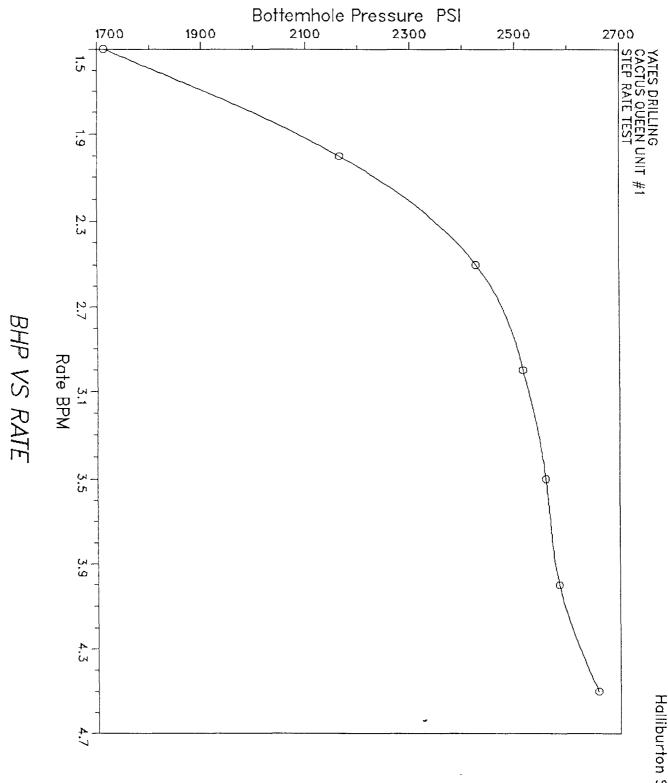


STEP RATE INJECTION TEST

5-29-91



Halliburton Services



Halliburton Services

0 27 12 31 80 Contractor and SPEEDISET @ MOORE BUSINESS FORMS, INC. - N LEASE CICTUS Queen Unit TICKET NO. 129714 HALLIBURTON SERVICES WELL NO. JOB LOG YATES Drilling 460 injection test CUSTOMER -29-91 FORM 2013 R-2 VOLUME CHART NO. PUMPS PRESSURE (PSI) RATE (BPM) TIME GAL DESCRIPTION OF OPERATION AND MATERIALS т c TUBING loid thising with prossurizor: stirt test CASING 1331 S 1340 1.5 60 2 13:45 2 1.5 Smin 28 ł 200 34.5 12:50 105 1 390 10 MIN stypep to 2BB/MEN 13:55 1.5 1 42 530 IS MIN 14:00 2 50 İ 790 SMIN 59 14:05 Э 960 10 MIN step up to 2. 5 OBL/MEN 68 1060 14:20 ン l 15MIN 79 2.5 14216 9 1240 SMIN 89 1280 2.5 10 MIN 14:20 ISMIN 2.6 1380 14:25 101 Stepupto 3BBL/MEN 1500 \$ 1430 3 113 1560 12 SMIN 1435 1600 10 MIN 13 127 3 163Ū 15 MIN 14 1440 3 142 step Upto 3.5 BBL/MIN 1740 3.5 156 1760 SMEN 1445 15 173 1450 2,5 IOMIN 16 790 185 1455 3,5 1790 ISMEN 17 Stepup to 4 BB4/min 1920 15:00 4 1950 202 18 (MEN 222 1980 15:05 19 ù 10 MIN 15:10 239 1990 20 4 IS MEN Step up to 4.5 BBL/MEN 2160 15115 259 2190 4,5 SMIN 21 279 4.5 22/15:20 10 MIN 2210 23 15:25 4. { 300 2210 IC MIN 1600 1SIP -

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR April 15, 1992

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

Yates Drilling Company 105 South Fourth Street Artesia, New Mexico 88210

> RE: Injection Pressure Increase Doyle Fee Lease Waterflood Project Chaves County, New Mexico

Dear Sir:

Reference is made to your request dated April 1, 1992, to increase the surface injection pressure on three wells within the Doyle Fee Lease Waterflood Project. This request is based on step rate tests conducted on these wells March 17-19, 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
Doyle No. 1 Unit A, Section 34, Township 12 South, Range 31 East, NMPM;	1480 PSIG
Doyle No. 3 Unit I, Section 27, Township 12 South, Range 31 East, NMPM;	1630 PSIG
Doyle No. 4 Unit M, Section 26, Township 12 South, Range 31 East, NMPM;	1750 PSIG
All in Change County New Maria	

All in Chaves County, New Mexico

Yates Drilling Company April 15, 1992 Page 2

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,

00 William J. LeMay Director WJL/DC/jc

cc: Oil Conservation Division - Hobbs
File: Case No. 9810 i
D. Catanach
R. Brown

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR April 16, 1992

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

Yates Drilling Company 105 South Fourth Street Artesia, New Mexico 88210

> RE: Injection Pressure Increase Cactus Queen Unit Waterflood Project Chaves County, New Mexico

Dear Sir:

Reference is made to your request dated April 1, 1992, to increase the surface injection pressure on three wells within the Cactus Queen Unit Waterflood Project. This request is based on step rate tests conducted on these wells March 18-20, 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
Cactus Queen Unit No. 1 Unit K, Section 27, Township 12 South, 31 East, NMPM;	1610 PSIG
Cactus Queen Unit No. 4 Unit O, Section 27, Township 12 South, Range 31 East, NMPM;	1660 PSIG
Cactus Queen Unit No. 5 Unit C, Sectin 34, Township 12 South, Range 31 East, NMPM;	1700 PSIG

All in Chaves County, New Mexico

Yates Drilling Company April 16, 1992 Page 2

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/DC/jc Oil Conservation Division - Hobbs cc: File: Case No. 9810 ν D. Catanach

R. Brown

INSE 9810 (Readvertised)

Replication of Yates Drilling Company for Water flood Projects, Chaves loundy, Now Mexice.

By tread in the phone-styled cause, seeks authority to institute a water flood project in the proposed Cactos Queen Were (Statutory) Unit Area (Division Cose No 9509) tout underlying the Sully sully of Section 26, the NELY Sully, El2 Sully, and SEly of Section 27, the Niz Miz and SEly NEly of Section 34, and the Naty Naty of Section 35, all in Township 12 South, Range 31 East, by the injection of water into the Southeast Chaves Quin Gas Area Associated fool through the wells to mand Within the Unit Brev. IN THE BUTERNATIVE the opplicant Seeks to institute for water flood projects adjacent to ane another in this same in ground area , the first to be in the proposed Carton Quer (Voluntary) Unit Area (Division Case de 4823) underlying the NELL SULLY, Elz Sully, and Wiz SELY of Section 27 and the NW/4 NE/4 and N/2 Norly of Section 34 both in Township 12 South, Range 31 East, by the injection of water in to the Southeast Chaves Queen Cas Drea Associated Pool through 3 certain wells with so al llout Area; and, the second to be on the Will Wester Proyle" For hease comprising the Swig swig of Section 26, the E/2 sty of Section 27, and the NE/4 villy of Section 34, all in Towaship 12 South, Range 31 East, by the

injection of water into soid feel through 3 contain wells within the said hease. The abarenticand area is Contered approximately 12 miles southwest by south of Caprack, New Mexico

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