Petroleum Geologist Reservoir Engineering

John C. Byers W/-X-276

Fourth Floor
Great Plains Life Bldg.
Lubbock, Texas

November 7, 1967

POrter 2-1004

Oil & Gas Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico

> Re: Cone Jalmat Yates Pool Unit Water Flood Expansion

Gentlemen:

The Cone Jalmat Yates Pool Unit was authorized for water flood operations, through Commission Orders No. R-2495 dated June 11, 1963. An expansion of this water flood operation was authorized, through administrative orders No. WFX-180 and WFX-206.

Water flood operation in the developed portion of this Unit has been responsible for increasing unit production from an average of 4,000 barrels per month, prior to water injection, to more than 20,000 barrels per month at the present time. The degree of response to water injection is reflected more completely through production curves attached hereto and well test data presented through Commission Form C-116 enclosed herewith.

The Unit was expanded to include Tract No. 9 (SE/4 Section 25, T22S - R35E) on September 1, 1967. The area within the Unit south of the north 1/4 of Section 25, T22S - R35E, has not been developed for water injection to this date.

The Working Interest Owners of the subject Unit hereby request that administrative approval be granted for expansion of the water flood program for this Unit. The proposed expansion for which this request is made will involve the conversion of 5 wells to water injection service. This expansion will increase the Unit area under water flood operation from 1160 acres to 1560 acres out of the 1760-acre Unit area.

Water required for this expansion will be derived from existing Santa Rosa sand water supply source now in existence, and produced water available from developed portions of the Unit.

Water injection into the Yates sand section, upon expansion, will average 300 barrels of water per day per injection well. Injection pressure will be limited to a maximum 1300 psig wellhead pressure.

To accomplish this expansion, the Working Interest Owners request approval for conversion of Unit wells No. 7-1, 8-3, 9-2, 9-3, and 10-2 to water injection service.

Page -2-

N.M. Oil Conservation Commission CJYPU Water Flood Expansion Santa Fe, New Mexico

November 7, 1967

Transmitted herewith are Commission Forms C-103, relative to each of the wells set out in the foregoing through which water will be injected into the Yates sand reservoir. Also enclosed are well completion diagrams for each well reflecting the condition of that well and plans for completion for water injection service.

For your convenience, we enclose herewith maps of the Unit area reflecting present well status and setting out the area to be served by the expanded program.

A duplicate copy of this application, along with exhibits pertinent thereto, has been supplied to the State Engineer's office in Santa Fe.

The area into which expansion approval is requested is bounded on the south and west by non-productive acreage. To the east of this area, leases operated by Cities Service and Continental Oil Company offset the Unit. These leases are productive from the Yates sand reservoir, and the operators are participants in the Unit. of this application have been forwarded to each of these companies. with request that they supply you with waivers of objection to this expanded operation.

Your consideration of this request is appreciated.

Yours very truly.

John C. Byers

JCB:mc

Enclosures

cc: OCC - Hobbs, N.M.

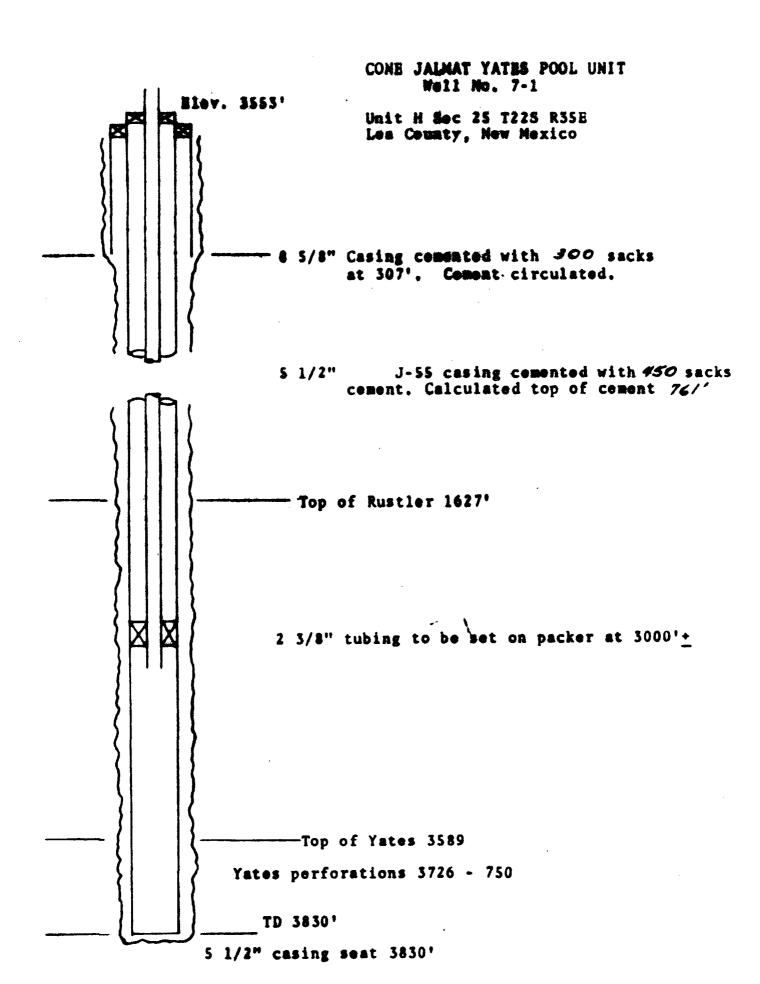
J. R. Cone

L. O. Storm

N. M. State Engineer

Cities Service Oil Company

Continental Oil Company



NO. OF COPIES RECEIVED			Form C-103	
DISTRIBUTION			Supersedes Old C-102 and C-103	
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			E-1357-3	
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J. R. CONE				
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CONDITIONS OF APPROVAL, IF ANY:

CONE JALMAT YATES POOL UNIT

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Yates perforations 3810 - 828

Top of Yates 3714'

- TD 3960'

5 1/2" casing seat 3942'

	 		Form C-103
DISTRIBUTION	_		Superse des Old C-1 02 and C-10 3
SANTA FE	NEW MEXICO OIL CONSER	ATION COMMISSION	Effective 1-1-65
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CONDITIONS OF AFPROVAL, IF ANY:

CONE JALMAT YATES POOL UNIT Well No. 9-2

Unit P Sec 25 T22S R35E Elev. 3554' Lea County, New Mexico - 8 5/8" Casing cemented with 250 sacks at 300'. Cement circulated. 5 1/2" J-55 casing cemented with 250 sacks Calculated top of cement 2412' Top of Rustler 1657' 2 3/8" tubing to be set on packer at 3000'+ — Top of Yates 3593' Yates perforations 3678 - 3762' -- TD 3855'

5 1/2" casing seat 3851'

NO. OF COPIES RECEIVED			Form C-103
DISTRIBUTION			Supersedes Old C-102 and C-103
SANTA FE	NEW MEXICO OIL CONSER	EVATION COMMISSION	Effective 1-1-65
FILE			
U.S.G.S.			5a. Indicate Type of Lease
LAND OFFICE			State X Fee
OPERATOR	1		5, State Oil & Gas Lease No.
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2. Name of Operator			8. Form or Lease Name
J. R. Cone (Tenne 3. Address of Operator	co; subject to applica	ition for Unit Exp.	9. Well No.
P. O. Box 871, Lu	bbock, Texas 79408		9-2
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Commence water inj	ection. Propose to co	mmence this work o	n September 1, 1967.
1 hereby certify that the information	above is true and complete to the best of n	ny knowledge and belief.	
1/1/11/19	110/	a tuun n	
SIGNED Jelli Coly	TITLE ENG	GINEER	DATE August 7, 1967
APPROVED BY	TITLE		DATE

CONDITIONS OF APPROVAL, IF ANY:

CONE JALMAT YATES POOL UNIT Well No. 9-3

Elev. 3567' Unit J Sec 25 T22S R35E Lea County, New Mexico - 9 5/8" Casing comented with 250 sacks at 304'. Coment circulated. 5 1/2" J-55 casing cemented with 250 sacks. Calculated top of cement 2432' Top of Rustler 1672' 2 3/8" tubing to be set on packer at 3000+ Top of Yates 3658' Yates perforations 3676' - 3838' - TD 3875'

5 1/2" casing seat 3875'

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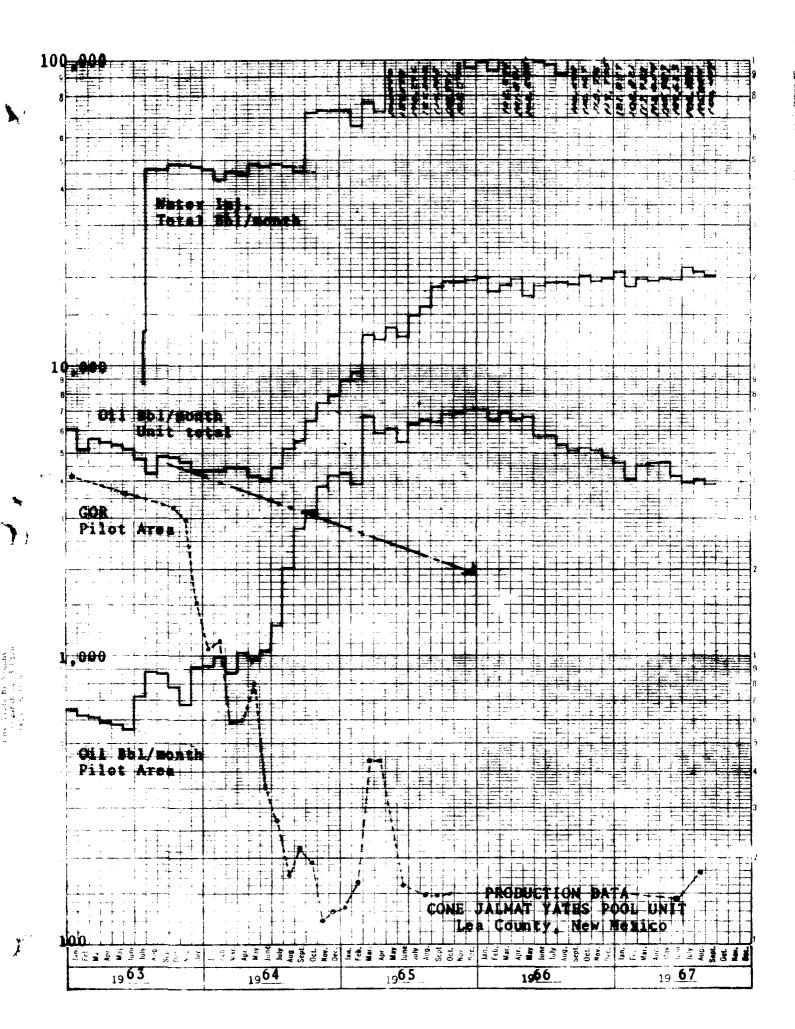
CONE JALMAT YATES POOL UNIT Well No. 10-2

Elev. 3553' Unit H Sec 36 T22S R35E Lea County, New Mexico 8 5/8" Casing cemented with 150 sacks at 320'. 5 1/2" J-55 casing cemented with 225 sacks. Calculated top of cement 2560' Top of Rustler 1668' 2 3/8" tubing to be set on packer at 3000+ Top of Yates 3643' Yates perforations 3696' - 3810' - TD 3856'

5 1/2" casing seat 3856'

DISTRIBUTION SANTA FE	NEW MEXICO OIL CONSERVA	Form C-103 Supersedex Old C-102 and C-103 Effective 1-1-65	
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OIL A GAS WELL 2. Name of Operator	OTHER-		7. Unit Agreement Name Cone Jalmat Yates Pool 8. Farm or Lease Name
J. R. Con	е		9. Well No.
P. O. Box	871, Lubbock, Texas 794	08	10-2
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18.1 hereby certify that the information	above is true and complete to the best of my kn	<u> </u>	DATE August 7, 1967
			

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LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

Revised 1-1-65

Cone Jalmat Yates Pool 7- Unit 8- 9- 10-	es Pool	These tests their convewater flood Tests before water	LEASE NAME N	Operator J. R. Cone Address P. O. Box 871, Lubbock
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned. increased allowables when authorized by the Commission.

will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

ledge and belief. is true and complete to the best of my know-I hereby certify that the above information

November 7, 1967 (Date)

							Unit	Cone Jalmat Yates Pool	Well tests after st						Unit	Well tests before s	authoriz	These te		1	Address P. O. Box 871, Lub	J. R. Cone	Operator
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Engineer
(Title)
November 7, 1967



CITIES SERVICE OIL COMPANY

Vaughn Building Box 4906, Midland, Texas 79701 Telephone: 915 MU2—3711

November 9, 1967

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico

Attention Mr. A. L. Porter, Jr.

Gentlemen:

Cone Jalmat Yates Pool Unit Lea County, New Mexico -Water Flood Expansion

Cities Service has received a copy of Cone's application to the New Mexico Oil Conservation Commission to convert certain wells to water injection on his Jalmat Yates Pool Unit. Two of these requested wells - Tract 7-1 (SE, NE) and 9-2 (SE, SE) both in Section 25, Township 22 South, Range 35 East offset the Cities Service Clossen-B wells - #12 (SW, SW) and #13 (SW, NW) both in Section 30, Township 22 South, Range 36 East, Lea County, New Mexico.

This is to advise that Cities Service has no objection to this request providing operations are conducted under the existing rules and regulations of the New Mexico Oil Conservation Commission and further that volumes of fluid injected and pressures are within those indicated in the application.

Very truly yours

l. C. McClure

Manager, Western Region

JCM/EFM/dpd

November 9, 1967

Mr. John C. Byers Fourth Floor Great Plains Bldg. Lubbock, Texas 79401

Dear Mr. Byers:

Receipt of a copy of your application to the Oil Conservation Commission which seeks administrative approval for the expansion of your waterflood in the Cone Jalmat Yates Pool is gratefully acknowledged.

FEI/ma

Yours truly,

S. E. Reynolds State Engineer

By:

Frank E. Irby Chief Water Rights Div. A. . . .



CONTINENTAL OIL COMPANY

P. O. Box 460

Hobbs, New Mexico 88240

PRODUCTION DEPARTMENT
HOBES DIVISION
L. P. THOMPSON
Division Manager
G. C. JAMIESON
Assistant Division Manager

November 10, 1967

1001 North Turner Telephone 393-4141

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary-Director

Re: Cone Jalmat Yates Pool Unit Waterflood Expansion

Gentlemen:

Continental Oil Company, an offset operator, has received a copy of the application dated October 27, 1967, of J. R. Cone for expansion of the waterflood project in the Cone Jalmat Yates Pool Unit, Lea County, New Mexico. Continental Oil Company hereby waives notice and hearing on the application described above.

Yours very truly,

LPT-JS

-87 May 13