

R C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO
BOX 1659
MIDLAND, TEXAS

Oil Conservation Commission Box 871 Santa Fe, New Mexico

> Re: Application for Administrative Approval for Conversion of 3 Unit Wells to Water Injection Wells, Rock Queen Unit

Gentlemen:

As provided in Order No. R-1541, Great Western Drilling Company as operator of the Rock Queen Unit, request administrative approval for conversion of the following Unit wells to water injection wells:

Unit Well No.	<u>Location</u>	
36-6	SE/4 of NW/4 of Sec. 36, T-13-S	R-31-E
36-10	NW/4 of SE/4 of Sec. 36, T-13-S	R-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-S	R-31-E
	SE14 SE14	

Well 36-7, an offset to wells 36-6 and 36-10, has received response to water injection. A test January 24, 1964 measured 90 barrels of oil, no water while the average for this well in December was 4 barrels per day.

Well 36-9, an offset to wells 36-10 and 36-16, has also received response to water injection. As of January 25, 1964 a test measured 14 barrels of oil, no water and late in December tests on this well were 6 barrels per day.

We respectfully submit that the ultimate recoverable oil from the Rock Queen Unit will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system if the Unit wells 36-6, 36-10 and 36-16 are not converted to injection at this time.



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NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

ADDRESS	.Boxlf	59, Mi	dland, T	exas	MON	TH OF		·····	January	, 1964
SCHEDULED TEST	r		COMPL	ETION TEST	Γ	•••••••	SPECIAL	TEST	X	(Check One
				(See Instruct						
	1		1	1		-	Produ	ction D	ring Test	
Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Water Bbls.	Oil Bbls.	Gas MCF	GOR Gu. Ft. Per Bbl.
Rock Queen Unit	36-7	1-24	P		24	2	0	90	TSTM	
	36-9	1-25	P		24	6	0	14	TSTM	
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	Tests	after	stimulat	ion by w	eterflo	od				
e ti to b	roduced D xceedin nan 25 p olerance y the Ce 5,025 p Mexico (on the uring g the to ercent. In ord ommissias volusia and fail ori	official te as-oil rat p unit allo Operato er that we ion. mes must a tempera ginal and servation	tio test, early wable for is encounted to the can be to th	the pool raged to assigned the din M degree of this roon. In a	shall be placed take adverse control of the control of the control of the coordance control of the coordance coordan	produced well is antage of allowed at a cific granted at a cific granted with Rule	d at a place of this ables we presservity back office 301 ar	rate not d by more 25 percent when authoriz sure base of ase will be 0 ce of the Nev ad Appropriate	.60. v

By Cacco

Administrative Coordinator

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

	OPERATOR										, 19
5	SCHEDULED TES	Т	•••••		ETION TES			SPECIAL	TEST	X	(Check ()
=	· · · · · · · · · · · · · · · · · · ·	Well	Date of	Producing	Choke	Total	Daily	Prod	uction Du	ring Test	GOR
	Lease	No.	Test	Method	Size	Test Hours	Allowable Bbls.	Water Bbls.	Oil Bbls.	Gas MCF	Cu. Ft. Per Bbl.
Rock	Queen Unit	36-7	12-15	P		24	2	0	4	TSTM	
		36-9	12-16	P		24	6	0	6	TSTM	
				Tests	before	stimula	tion by	waterf]	ood		

No well will be assigned an allowable greater than the amount of oil produced on the official test.

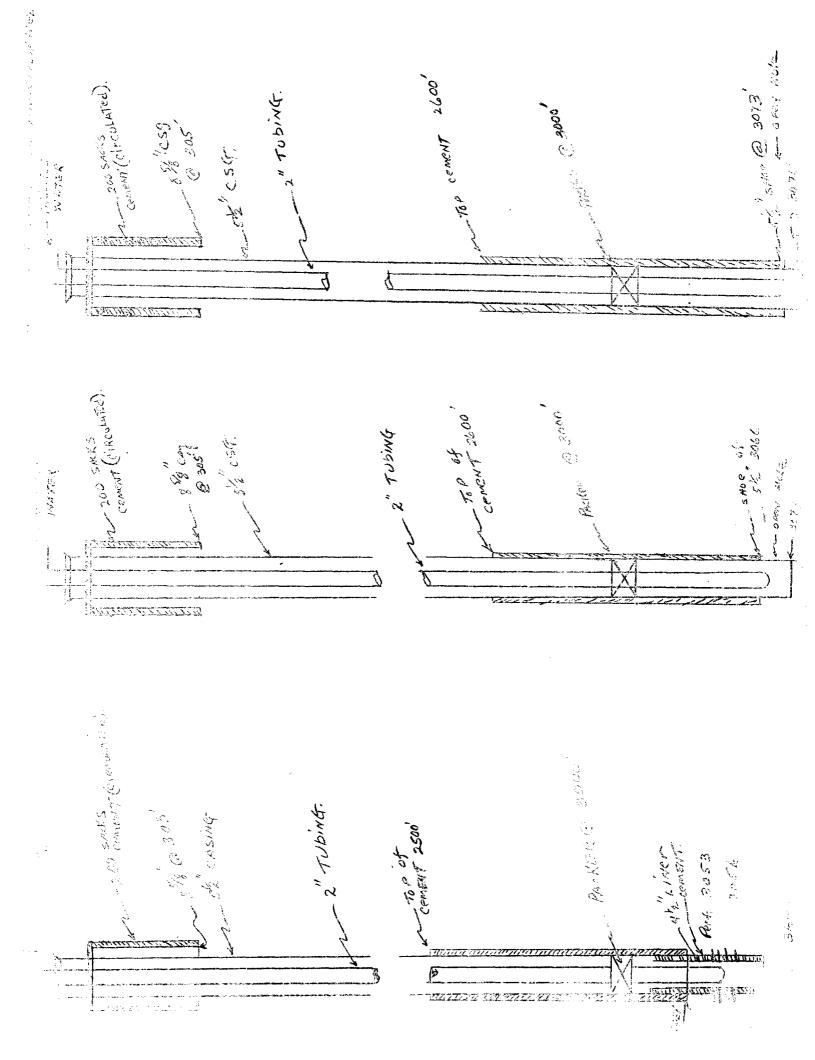
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized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

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

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 certify that the information given is true and complete to the best of my knowledge.)

Date January 31, 1964	GREAT WESTERN DRILLING COMPANY
Dait	Company
	By Crews
	Administrative Coordinator
	Title





STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

February 10, 1964

ADDRESS CORRESPONDENCE TO: STATE CAPITOL SANTA FE, N. M.

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company, dated January 31, 1964, which seeks to convert three wells in their Rock Queen Unit Water Flood Project to water injection wells. The subject wells are:

Unit Well No.

Location

36-6	SE¼NW¼ S€	ec. 36,	T.	13	S.,	R.	31	Ε.
36-10	NW¼SE¼ S€	ec. 36,	T.	13	S.,	R.	31	Ε.
36-16	SW½SW½ S€	ec. 36,	T.	13	s.,	R.	31	Ε.

This office offers no objection to the granting of this application provided injection is down 2" tubing under a packer set well below the top of the cement surrounding the production string, at about 3,000, as set forth in Mr. O. H. Crews' letter to me.

Yours truly,

S. E. Reynolds State Engineer

FEI/ma
cc-Great Western Drilling Co.
F. H. Hennighausen

Chief

Water Rights Division



February 10, 1964

R. C. TUCKER, PRES.

PHONE MU 2-5241 ADDRESS REPLY TO: BOX 1659 MIDLAND, TEXAS

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

Attn: Mr. J. E. Kapteina

Gentlemen:

Enclosed please find all required wavers properly executed for the expansion of the Rock Queen Unit as requested January 31, 1964.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

OHC/bl Encl.





R C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO
BOX 1659
MIDLAND, TEXAS

Cities Service Oil Co. Box 97 Hobbs, New Mexico

Gentlemen:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

OHC/bl

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

Unit Well No.	Location	
36-6	SE/4 of NW/4 of Sec. 36, T-13-S, 1	R-31-E
36-10	NW/4 of SE/4 of Sec. 36, T-13-S,	R-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-S, 1	R-31-E

as requested in your application of January 31, 1964.

CITIES SERVICE OIL COMPANY

Date 2/6/64





January 31, 1964

R. C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

Great Western Drilling Company Box 1659 Midland, Texas

Gentlemen:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

Ву

OHC/bl

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

Unit Well No.	Location
36-6 36-10	SE/4 of NW/4 of Sec. 36, T-13-S, R-31-E NW/4 of SE/4 of Sec. 36, T-13-S, R-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-S, R-31-E

as requested in your application of January 31, 1964.

GREAT WESTERN DRILLING COMPANY



January 31, 1964

Ar. John Trigg Box 5629 Aoswell, New Mexico

Gentlemen:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By CHCCE CO

OHC/L:

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

Unit well No.	<u>Location</u>	
36-6	SE/4 of NW/4 of Sec. 36, T-13-S, R	-31-E
36-10	NW/4 of SE/4 of Sec. 36, T-13-S, R	-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-5, R	-31-E

as required in your application of January 31, 1964.

By Shu Krigg
Date 2-4-64



R. C. TUCKER, PRES

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

New Mexico Oil Conservation Commission Box 871 Santa Fe, New Mexico

Attn: Mr. J. E. Kapteina

Gentlemen:

Please find enclosed (3) three diagrammatic sketches of Rock Queen Unit Wells 36-6, 36-10 and 36-16 giving the information requested in your letter of February 4, 1964.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By O. H. Crews

OHC/b1

