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Assign WFX # 4

November 3, 1958

due Nov. 20, 1958

Oil Conservation Commission
State of New Mexico
State Capitol Building
Santa Fe, New Mexico

RE: Application For Administrative
Approval to Convert Three (3)
Unit Wells to Water Injection
Wells In North Caprock Queen
Unit No. 1 - Located in Lea and
Chaves Counties, New Mexico

Gentlemen:

In accordance with Commission Order No. 972-B issued on August 6, 1958,
Graridge Corporation as Unit Operator respectfully requests administrative
approval to convert the following wells to water injection wells:

<u>UNIT NO.</u>	<u>LOCATION</u>
32-4	NW/4 NW/4 Sec. 32, T-12-S, R-32-E
32-6	SE/4 NW/4 Sec. 32, T-12-S, R-32-E
32-10	NW/4 SE/4 Sec. 32, T-12-S, R-32-E

The following data pertinent to the proposed expansion are presented as
support for the above request:

(1) Each proposed injection well is directly offset by a
producing well which has shown response to the water flood project.
(See attached Form C-116 and Exhibit No. 1).

(2) Exhibit No. 2 indicates present injection well data.
It is evident that some of the injection wells are not as re-
ceptive to water injection as others therefore, it is desirable
to place wells on injection soon after waterflood response is
noted in order to maintain flood balance.

(3) Exhibit No. 3 gives performance curves for the overall
waterflood project.

(4) One (1) of the subject wells, No. 32-10 has been conditioned
for water injection. Preparations are being made to commence workover
operations on the remaining two (2) proposed injection wells. These
operations should be complete or near completion at the time that
administrative approval proceedings have been completed.

Oil Conservation Commission
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Attached Exhibit No. 1 indicates all offset operators and all injection wells in both North Caprock Queen Units Nos. 1 and 2 as is required by Order No. R-972-B.

Copies of this application are being sent to Ambassador Oil Corporation and Great Western Drilling Company as they are offset operators to the proposed expansion. We are submitting waiver letters to the offset operators and will forward these to the Commission as soon as possible.

The cooperation of the Commission in this matter will be greatly appreciated.

Yours very truly,

GRABIDGE CORPORATION

By B. G. Harrison
B. G. Harrison
Manager of Secondary Recovery

BGH/ect
cc:

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

EXHIBIT NO. 2

GRANIDGE CORPORATION

Monthly Water Flood Report

Injection Well Data

Project: Caprock Queen Unit No. 1

Month: September, 1958

Field: Caprock Queen

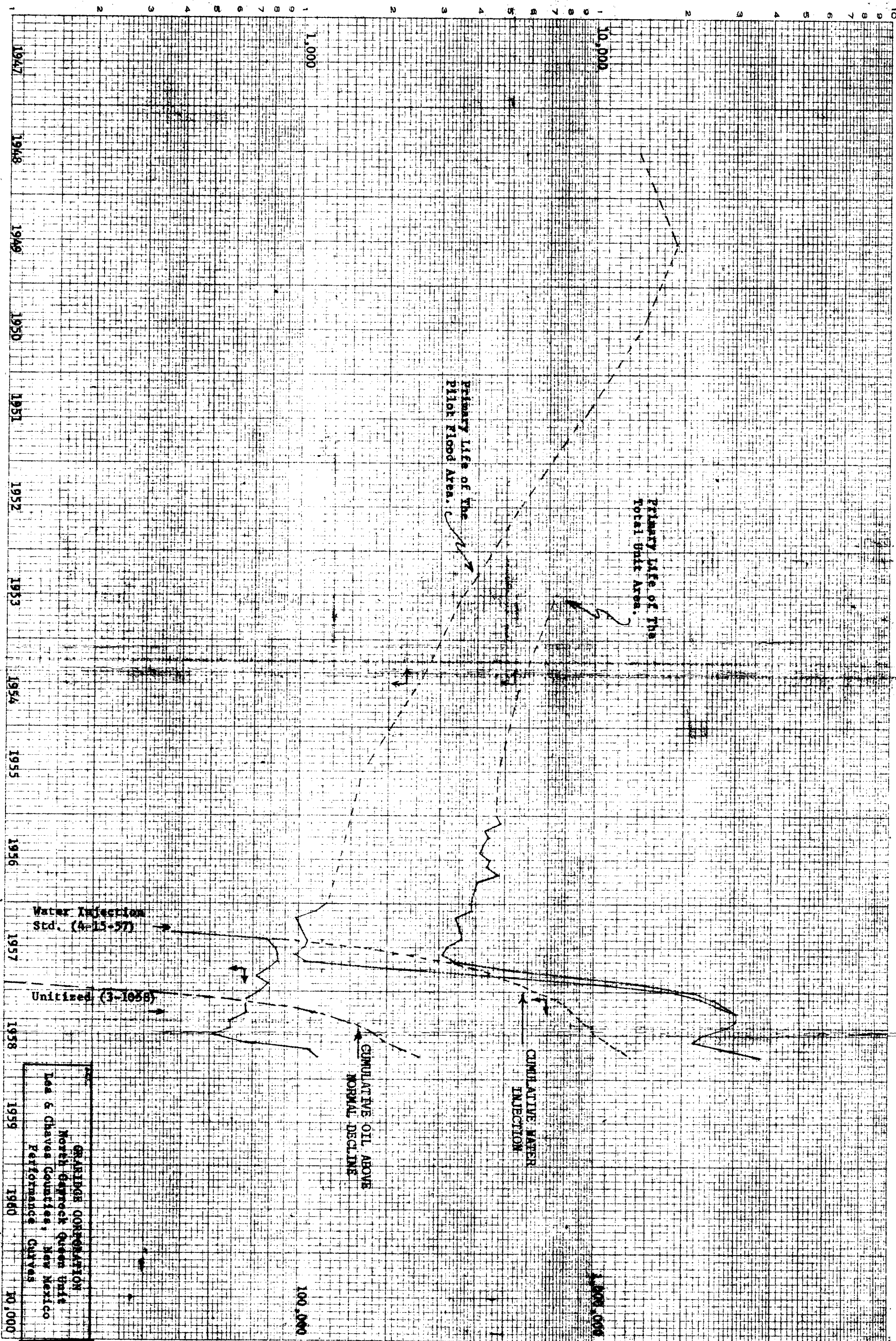
Formation: Queen Sand

Lease & Well No.	No.	Total Water Input		Injec- tion Pressure	Cumulative Input
		Avg/ Day.	B/D/ Ac-Ft.		
Unit 31-2	14,505	484	0.61	0#	28,859
31-8	14,863	495	0.62	400#	30,673
31-10	15,272	509	0.64	0#	254,152
31-14	2,513	84	0.11	1000#	66,519
31-16	15,050	502	0.63	540#	273,047
32-12	10,899	364	0.46	980#	22,850
32-14	7,371	246	0.31	1000#	17,544
6-2	15,698	524	0.66	680#	265,688
6-8	9,228	308	0.39	900#	138,366
5-4	12,240	408	0.51	660#	241,110
Totals: (10)	117,639	3924	0.49	616 Avg.	1,338,808

NOTE:

All wells indicated in red in Exhibit No. 1 were not on injection on October 1, 1958, but were approved by OCC as water injection wells. All wells with the exception of No. 6-12 have been placed on injection during October, 1958. Various operational difficulties have prevented placing well No. 6-12 on injection.

Oil Production (Bbls/Mo.)



Water Injected (Bbls/Mo.)
Cumulative Oil Produced & Water Injected, bbls.

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Granidge Corporation POOL Caprock Queen
ADDRESS Box 752, Brackenridge, Texas MONTH OF _____, 19 53
SCHEDULED TEST _____ COMPLETION TEST _____ SPECIAL TEST X (Check One)
(See Instructions on Reverse Side)

North Caprock Queen Unit No. 1

Tests submitted in accordance with Commission Order No. A-972-B.

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
North Caprock Queen Unit 1	92-5	10-22-53	Pump	-	24	34	0	41	TSTM	-
	92-11	10-12-53	Pump	-	24	35	0	27	TSTM	-

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

Date November 3, 1953

GRANIDGE CORPORATION
Company
By B. E. Harrison
(B. E. Harrison)
Manager of Secondary Engineering
Title

INSTRUCTIONS

Mail original to Oil Conservation Commission, Santa Fe, New Mexico, and one copy to District Office, Hobbs, New Mexico.

This report shall be mailed to the Commission on or before the 15th of the month following the period in which the well is scheduled to be tested. The ratios, as reported, shall become effective for proration purposes the first of the month following the end of the period in which the test is scheduled to be made. Failure to make the required test and report will be penalized as the Commission's Regulations provide.

Under "producing methods," show flowing, pumping, or gas lift; under "hours," show the duration of the test in hours, which includes all time the well is open for production of oil or gas during the 24-hour test period. The allowable is the daily allowable for the well at the time of test.

METHOD OF TESTING: Produce each well in the normal operating manner and the customary production rate and measure all gas, oil and water produced during 24 hours.

MEASUREMENTS: To be made in accordance with Rule 301. In computing the gas-oil ratio on gas lift wells, input is subtracted from output to obtain net gas volume.

PRESSURE BASE: 15.025 lbs. per sq. in., Specific Gravity .70. Temperature 60° F.

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Granidge Corporation POOL Caprock Queen
ADDRESS Box 752, Breckenridge, Texas MONTH OF _____, 19 58
SCHEDULED TEST _____ COMPLETION TEST _____ SPECIAL TEST X (Check One)

North Caprock Queen Unit No. 1
Tests prior to interference caused by waterflood.

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
North Caprock Queen Unit 1	32-5	8-15-58	Ramp	"	24	4	0	4	TSTM	"
	32-11	9-12-58	Ramp	"	24	35	0	3	TSTM	"

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 November 2, 1958

GRANIDGE CORPORATION

By R. G. Harrison Company
Manager of Secondary Recovery
Title