



SUN OIL COMPANY **DX DIVISION**

P. O. BOX 1416, ROSWELL, NEW MEXICO 88201

February 17, 1969



30 FEB 20 1969

WFX-307
See Mar 7

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

RE: Metex Waterflood

Gentlemen:

Sun Oil Company - DX Division herewith requests administrative approval to inject water into the Metex Zone in the following wells.

M. Dodd "A" No. 9 located in Unit G of Section 22,
T-17-S, R-29-E, Eddy County, New Mexico

M. Dodd "A" No. 10X located in Unit A of Section 22,
T-17-S, R-29-E, Eddy County, New Mexico

M. Dodd "A" No. 11 located in Unit I of Section 22,
T-17-S, R-29-E, Eddy County, New Mexico

These wells are presently injecting water into the Keeley Zone through 2 inch tubing. Plan is to inject fresh water down the tubing-casing annulus into the Metex Zone.

This will represent an expansion of the SDX Metex Waterflood approved by the Commission in Case No. 3343, Order No. R-3013, dated December 3, 1965.

In compliance with State Rule 701 E-5, we are submitting in triplicate the following:

1. Plat of the area, showing the proposed injection wells and the location of other properties within the required radius of the project.
2. Diagrammatic sketch of the proposed injection well completions.
3. Waterflood data containing pertinent information.
4. Form C-116, indicating the response on wells in the present SDX Metex Waterflood.
5. Logs of the proposed injection wells.

New Mexico Oil Conservation Commission
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We plan to inject fresh water treated for bacteria corrosion. Analysis of the water taken from the water injection manifold shows a corrosion rate of 0.4 mils penetration per year. Date of the last test is 1-24-69. This is a mild corrosion rate and should not affect the casing at any time during the duration of the waterflood. Treatment will continue for project life.

Previous expansions to the Metex Waterflood have been granted by the Commission with Order Numbers WFX-254, WFX-266, WFX-268, WFX-288 and WFX-298.

Sincerely,

SUN OIL COMPANY - DX DIVISION

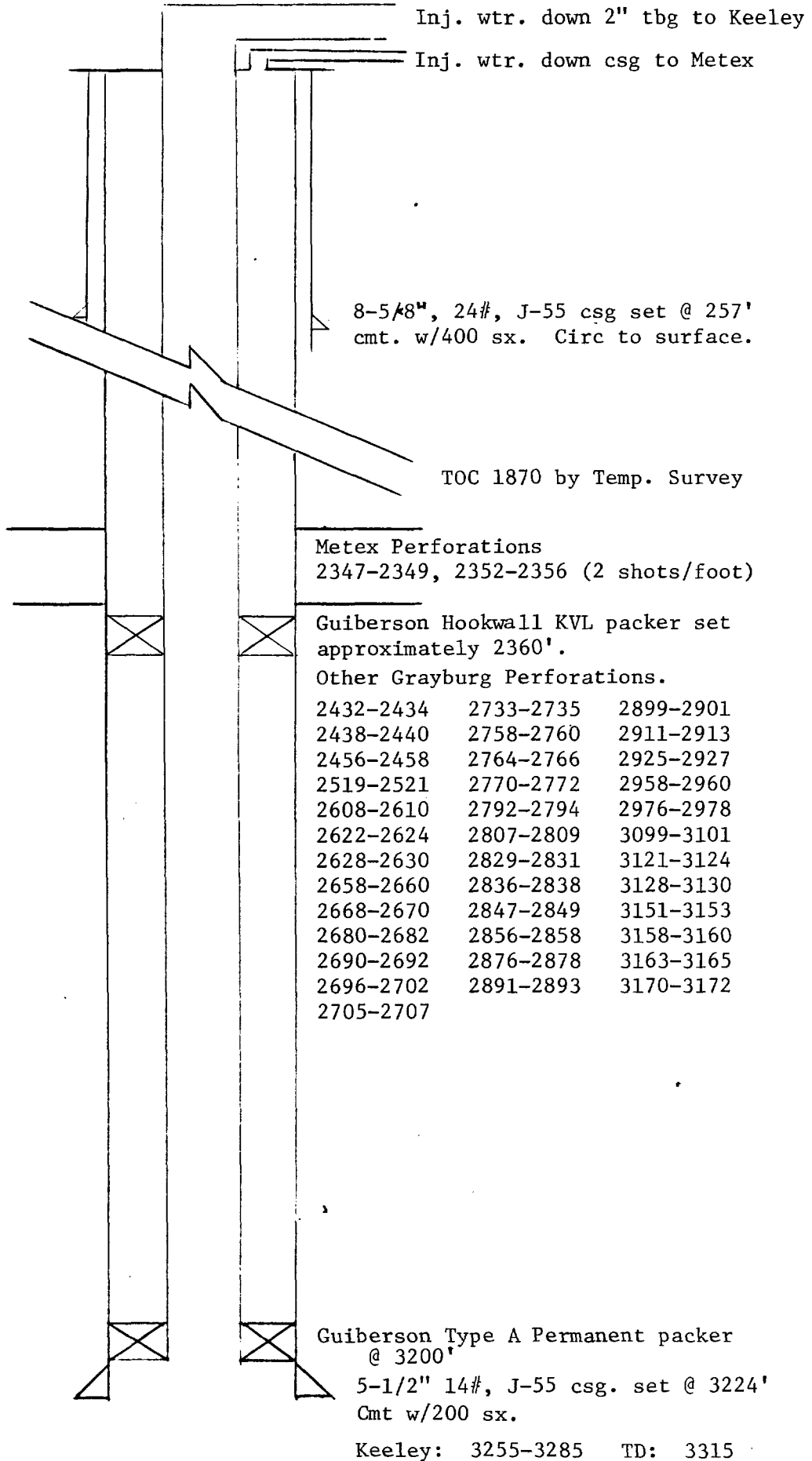


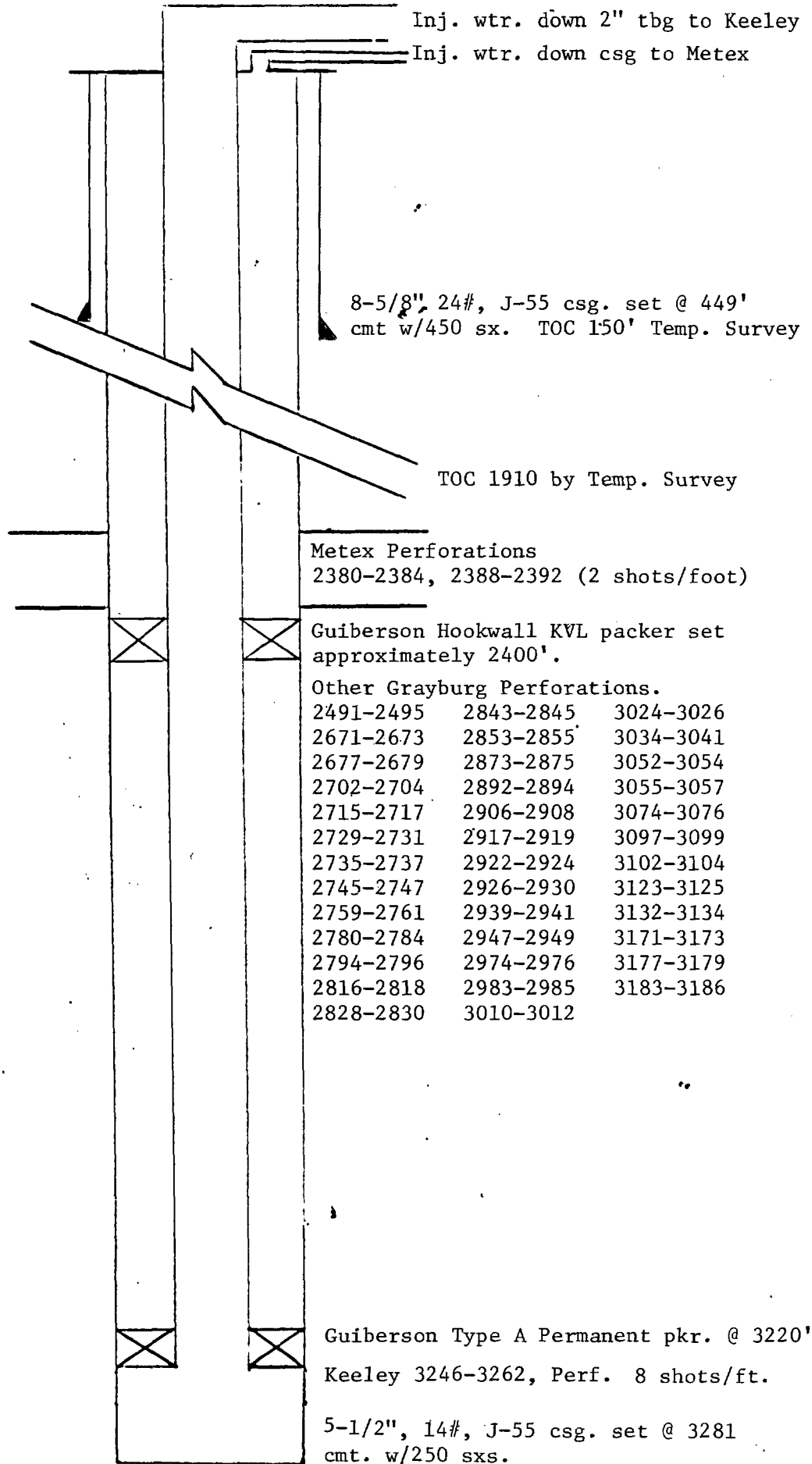
F. D. Lebo
District Engineer

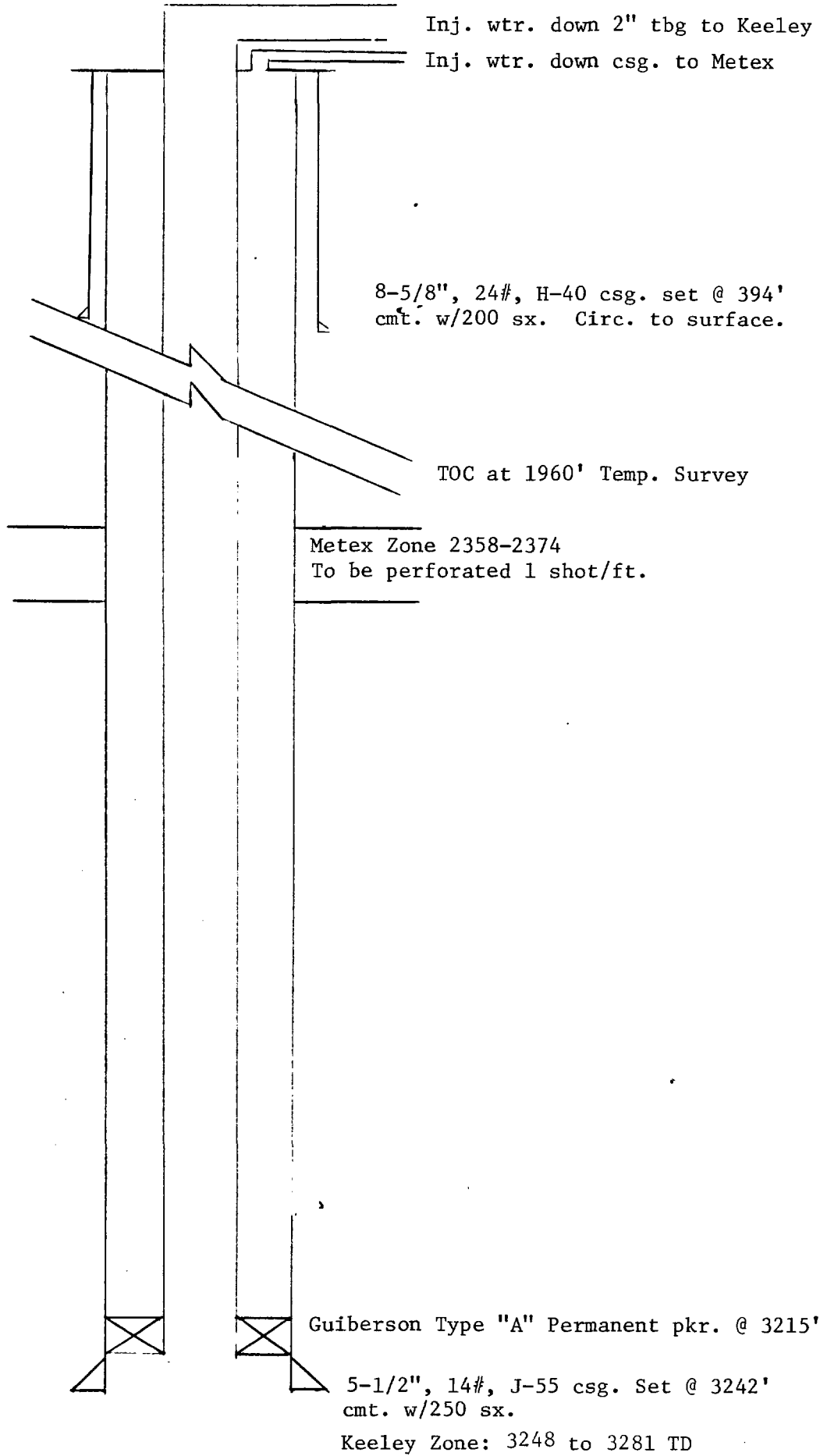
FDL/GHN/nsh

Attachments

cc: NMOCC - Artesia (L/Attachments)
USGS - Artesia (L/Attachments)
General American (L/Attachments)
Tenneco (L/Attachments)







SUN OIL COMPANY - DX DIVISION

WATERFLOOD DATA

LEASE: M. Dodd "A"

FIELD: Grayburg Jackson

PROJECT: SDX Metex Waterflood Commission Order No. R-3013

WELL NO: 9

LOCATION OF WELL: 1980' FNL, 1980' FEL, Section 22, T-17-S, R-27-E,
Eddy County, New Mexico

DATE WELL COMPLETED: October 26, 1955

PRESENT STATUS OF WELL: Injection Well

PRESENT COMPLETION INTERVAL: Keeley

PROPOSED COMPLETION INTERVAL: Metex and Keeley

TYPE OF INJECTION FLUID: Fresh water into Metex and Keeley

TOP OF FORMATION: 2343 Metex, 3255 Keeley

BOTTOM OF FORMATION: 2358 Metex, 3285 Keeley

PROPOSED INJECTION INTERVAL: 2345-2356 Metex, 3255-3285 Keeley

SOURCE OF INJECTION WATER: Purchased from Yucca Water Company,
Lovington, New Mexico

ANTICIPATED VOLUMES TO BE INJECTED: 250 BPD

ANTICIPATED INJECTION PRESSURE: 1500 PSIG

MAXIMUM INJECTION PRESSURE: 1600 PSIG

Mailing address of office responsible for this project:

Sun Oil Company - DX Division
P. O. Box 1416
Roswell, New Mexico 88201

SUN OIL COMPANY - DX DIVISION

WATERFLOOD DATA

LEASE: M. Dodd "A"

FIELD: Grayburg Jackson

PROJECT: SDX Metex Waterflood Commission Order No. R-3013

WELL NO: 10X

LOCATION OF WELL: 675' FNL, 660' FEL, Section 22, T-17-S, R-27-E,
Eddy County, New Mexico

DATE WELL COMPLETED: 12-20-55

PRESENT STATUS OF WELL: Injection Well

PRESENT COMPLETION INTERVAL: Keeley

PROPOSED COMPLETION INTERVAL: Metex and Keeley

TYPE OF INJECTION FLUID: Fresh water into Metex and Keeley

TOP OF FORMATIONS: 2378 Metex, 3246 Keeley

BOTTOM OF FORMATIONS: 2392 Metex, 3272 Keeley

PROPOSED INJECTION INTERVALS: 2380-2392 Metex, 3246-3262 Keeley

SOURCE OF INJECTION WATER: Purchased from Yucca Water Company,
Lovington, New Mexico

ANTICIPATED VOLUMES TO BE INJECTED: 250 BPD

ANTICIPATED INJECTION PRESSURE: 1500 PSIG

MAXIMUM INJECTION PRESSURE: 1600 PSIG

Mailing address of office responsible for this project.

Sun Oil Company - DX Division
P. O. Box 1416
Roswell, New Mexico 88201

SUN OIL COMPANY - DX DIVISION

WATERFLOOD DATA

LEASE: M. Dodd "A"

FIELD: Grayburg Jackson

PROJECT: SDX Metex Waterflood Commission Order No. R-3013

WELL NO: 11

LOCATION OF WELL: 1650' FSL & 330' FEL, Section 22, T-17-S, R-27-E,
Eddy County, New Mexico

DATE WELL COMPLETED: February 17, 1956

PRESENT STATUS OF WELL: Injection Well

PRESENT COMPLETION INTERVAL: Keeley

PROPOSED COMPLETION INTERVAL: Metex and Keeley

TYPE OF INJECTION FLUID: Fresh water into Metex, Salt water into Keeley
(Cement lined tubing)

TOP OF FORMATION: Metex 2358, Keeley 3248

BOTTOM OF FORMATION: Metex 2374, Keeley 3281

PROPOSED INJECTION INTERVAL: 2358-2374 Metex, Keeley 3248-3281

SOURCE OF INJECTION WATER: Purchased from Yucca Water Company,
Lovington, New Mexico

ANTICIPATED VOLUMES TO BE INJECTED: 250 BPD

ANTICIPATED INJECTION PRESSURE: 1500 PSIG

MAXIMUM INJECTION PRESSURE: 1600 PSIG

Mailing address of office responsible for this project.

Sun Oil Company - DX Division
P. O. Box 1416
Roswell, New Mexico 88201

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County											
Sun Oil Company - DX Division		Grayburg Jackson		Eddy											
Address		TYPE OF TEST - (X)		Completion: <input type="checkbox"/> Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
P. O. Box 1416 - Roswell, New Mexico 88201															
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	TYPE OF TEST	CHOKESIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.	
		U	S	T							R	WATER BBL.	GRAV. OIL		OIL BBL.
M. Dodd "A"	16	I	15	17S	29E	8-10-66	P	-	3	24	0	34	3	1	333
	16	I	15	17S	29E	2-04-69	P	-	27	24	160	34	21	3	143
M. Dodd "B"	17	E	14	17S	29E	8-07-68	P	-	11	24	10	34	11	2	182
	17	E	14	17S	29E	1-16-69	P	-	90	24	30	34	70	10	143
	18	K	14	17S	29E	6-03-68	P	-	40	24	65	34	40	5	800
	18	K	14	17S	29E	1-17-69	P	-	60	24	35	34	51	6	1180

NOTE: For Exhibit Only

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° F. Specific gravity base will be 0.60.
 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.

F. D. Lebo
(Signature)

District Engineer

(Title)

February 18, 1969

(Date)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

April 24, 1969

Sun Oil Company
P. O. Box 1416
Roswell, New Mexico 88201

Attention: Mr. F. D. Lebo

Re: Administrative Order WFX No. 307

Gentlemen:

Reference is made to Administrative Order WFX No. 307, entered March 7, 1969, approving the expansion of your SDX Metex Water Flood Project in the Grayburg Jackson Pool, Eddy County, New Mexico.

In accordance with the arrangement which you have made with our Artesia office, it is our understanding that the three wells covered by the subject order will continue to be carried in your SDX Keeley Water Flood Project, even though injection will also be into the Metex zone.

Administrative Order WFX No. 307 is therefore hereby amended to authorize water injection into the Grayburg formation through the three subject wells in the Keeley Project rather than the Metex project.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/DSM/og

cc: Oil Conservation Commission - Artesia
N. Mex. Oil & Gas Engineering Committee - Hobbs

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