

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

March 23, 1964

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Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Attention: Mr. Wm. G. Odell

Gentlemen:

New Mexico Oil Conservation Commission Order R-2154 granted authority to Humble Oil & Refining Company to institute a pressure maintenance project in the Cha Cha-Gallup Oil Pool; Order R-2541 authorized Humble's pressure maintenance project in the Many Rocks-Gallup Oil Pool. In both orders Rule 11 covers the procedure by which application is made for authorization to convert additional wells to injection and for expansion of the project area. It is noted that there are differences in the rule (11) that you may not be aware of: (1) waiting period and (2) Rule-2541 requires notification to the State Engineer of application to convert wells to injection or the drilling of injection wells while R-2154 does not. It could not be determined from your application dated March 5, 1964, for expansion of the Many Rocks-Gallup project area and conversion of two wells to injection, if a copy of the application had been sent to the State Engineer Office. One of the three copies submitted to this office was forwarded to the State Engineer so as to minimize the delay in writing an order since the 15-day waiting period expired March 21. In the future should similar requests for the Many Rocks-Gallup Project be required, please notify the State Engineer of your intention.

Very truly yours,

J. E. KAPTEINA
Engineer

JEK/og

MAIN OFFICE OCC

1964 MAR 25 PM 1:21

March 25, 1964

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Mr. William G. Odell, Attorney
Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Dear Mr. Odell:

Mr. J. E. Kapteina, Engineer for the Oil Conservation Commission has forwarded me a copy of your application which seeks to expand your Many Rocks-Gallup Pressure Maintenance Project and to convert two additional producing wells to water injection service. This application was received in this office on Mar. 24, 1964.

In order that this office may determine whether we object to this application, the following information is requested:

What were the specifications (API) on the production casing installed in each well?

Was the casing new? If not new, what was the condition of the casing?

What casing tests do you expect to make now and in the future life of the pressure maintenance and what will future testing dates be?

What is the life expectancy of the pressure maintenance?

Will the wells be plugged at the end of the secondary recovery program?

What is the chemical analysis of the water to be used for injection and what is the location of the source well?

What treatment of water will be used, if any?

Early receipt of this information will permit me to make an early decision.

Yours truly,

S. E. Reynolds
State Engineer

FEL/ma

cc- Howard C. Bratton
Oil Conservation Comm.

By:

Frank E. Irby
Chief
Water Rights Division

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1964 APR 13

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

April 13, 1964

ADDRESS CORRESPONDENCE TO:

~~XXXXXXX~~

SANTA FE, N. M.

State Capitol Bldg.

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

Dear Mr. Porter:

Attached hereto is a copy of a letter from Mr. William G. Odell in response to my letter of March 25, 1964 with regard to the application of Humble Oil & Refining Company which seeks approval to expand its Many Rocks-Gallup Project by converting two additional producing wells to water injection service.

In view of the statements made in the letter, I have reached the conclusion that the granting of this application is not likely to create a threat of contamination to fresh waters. Therefore, this office offers no objection to the granting of this application.

Sours truly,

FEI/ma
cc-Humble Oil & Ref. Co.

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Div.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

APPLICATION OF HUMBLE OIL & REFINING
COMPANY FOR AN ORDER APPROVING THE
EXPANSION OF ITS MANY ROCKS-GALLUP
PRESSURE MAINTENANCE PROJECT, SAN
JUAN COUNTY, NEW MEXICO, BY EXPANDING
THE PROJECT AREA AND BY CONVERTING
TWO ADDITIONAL PRODUCING WELLS TO
WATER INJECTION SERVICE.

NOTICE AND PROOF OF SERVICE

To: Mobil Oil Company
500 Petroleum Club Building
Denver, Colorado

Atlantic Refining Company
760 Petroleum Club Building
Denver, Colorado

Tidewater Oil Company
Midland, Texas

Texaco, Inc.
P. O. Box 2100
Denver, Colorado

Skelly Oil Company
P. O. Box 1650
Tulsa, Oklahoma

Cities Service Oil Company
P. O. Box 97
Hobbs, New Mexico

Murphy Corporation
Murphy Building
Eldorado, Arkansas

Texas Pacific Oil Company
1700 Broadway
Denver, Colorado

Please take notice that on the 12 day of March, 1964, Humble Oil & Refining Company did file with the New Mexico Oil Conservation Commission its application for an order approving the expansion of the project area of the Many Rocks-Gallup Pressure Maintenance Project, San Juan County, New Mexico, and for an order approving the conversion of two additional producing wells within the project area, as expanded, to water injection service. A copy of said application is served upon each of you herewith. This notice is given and Proof of Service hereinbelow made in support of said application and pursuant to the provisions of Rule 11 of the Special Rules and Regulations for the Many Rocks-Gallup Pressure Maintenance Project, which said rule is fully set forth in Order No. R-2541 in this case.

HUMBLE OIL & REFINING COMPANY

P. O. Box 120
Denver, Colorado 80201

By William D. Odell

EXHIBIT "F"
To Application of Humble Oil & Refining Company
for
Approval of Expansion of Many Rocks-Gallup Pressure Maintenance Project No. 1
Many Rocks Pool, San Juan County, New Mexico

PROOF OF SERVICE

WILLIAM G. ODELL, Affiant herein, being first duly sworn on oath deposes and says that on March _____, 1964, he did give notice of the application of Humble Oil & Refining Company described above to the parties listed above by sending a copy of the above notice, together with copies of the application and exhibits attached thereto (which said application and exhibits are exact copies of the application and exhibits filed with the Commission in this matter), by registered United States mail at Denver, Colorado, addressed to the operators named above at the addresses set forth above.

William G. Odell
WILLIAM G. ODELL

Subscribed and sworn to before me this 14 day of March, 1964.

Mary C. Lewis
Notary Public in and for the
State of Colorado.
Residing at Denver.

My commission expires September 13, 1965.

CONVERSION TO WATER INJECTION

Proposed Injection Wells	<u>Navajo Tribe No. G-15</u>	<u>Navajo Tribe No. G-17</u>
Formation	Gallup Sand	Gallup Sand
Kind of Fluid	Subsurface Formation Water	Subsurface Formation Water
Anticipated Injection Volume	105 B/D	105 B/D
Source of Water	Morrison Formation	Morrison Formation

EXHIBIT "G"

To Application of Humble Oil & Refining Company
for
Approval of Expansion of Many Rocks-Gallup Pressure Maintenance Project No. 1
Many Rocks Pool, San Juan County, New Mexico

STATUS OF WATER INJECTION
MANY ROCKS-GALLUP PRESSURE MAINTENANCE PROJECT NO. 1
SAN JUAN COUNTY, NEW MEXICO

<u>Injection Well</u>	<u>Accumulated Injection to 2-1-64</u>	<u>Injection-Avg B/D January, 1964</u>
G-16	18, 576	57
G-18	6, 348	18
G-20	30, 411	230
G-21	32, 915	181
G-23	11, 946	212

EXHIBIT "H"

To Application of Humble Oil & Refining Company
for
Approval of Expansion of Many Rocks-Gallup Pressure Maintenance Project No. 1
Many Rocks-Gallup Pool, San Juan County, New Mexico

EXHIBIT "I"

WELL STATUS PRODUCTION DATA

HUMBLE OIL & REFINING CO.
MANY ROCKS FIELD, SAN JUAN CO., NEW MEXICO

Cumulative Oil														
Lease- Well	T.D. Feet	Production Size	Csg Depth	Est.Top Cement Feet	Perforated Interval Feet	Completion Date	Initial Potential		Current Test Data		Prod To		Feb. 1964 Allowable	Waterflood Well Status
							BOPD	Ft ³ /Bbl	Date	BOPD	GOR	2-1-64, Bbls		
Navajo Tribe of Indians														
G-7	1,300	4-1/2	1,299	753	1,246-60	5-7-63	313	266	11-14-63	66	--	18,344	66	Prod.
G-8	1,268	4-1/2	1,268	726	1,211-23	5-11-63	217	266 (Est)	1-17-64	69	135	19,378	65	Prod.
G-9	1,260	4-1/2	1,260	830(1)	1,200-17	5-14-63	372	266 (Est)	2-6-64	146	97	25,289	125	Prod.
G-10	1,282	4-1/2	1,282	789	1,234-50	5-19-63	208	350 (Est)	1-26-64	74	141	18,467	71	Prod.
G-11	1,340	4-1/2	1,340	798	1,288-1300	5-23-63	203	360 (Est)	1-19-64	71	455	16,798	41	Prod.
G-12	1,345	4-1/2	1,345	803	1,298-1308	6-10-63	10	2,762	1-6-64	9	4,500	1,182	2	Prod.
G-13	1,190	4-1/2	1,190	648	1,134-44	6-10-63	S.I.	---	---	---	---	---	---	S.I.
G-14	1,324	4-1/2	1,324	103	1,271-80	6-16-63	95	360 (Est)	11-19-63	39	103	11,005	39	Prod. (2)
G-15	1,350	4-1/2	1,350	129	1,294-1306	6-23-63	170	360 (Est)	1-15-64	96	435	14,745	46	Prod. (2)
G-16	1,303	2-7/8	1,303	668	1,231-41	7-8-63	219	360 (Est)	---	---	---	1,731	---	Inj. (2)
G-17	1,305	4-1/2	1,305	636	1,245-53	7-16-63	38	360 (Est)	11-28-63	9	552	5,217	9	Prod. (2)
G-18	1,275	2-7/8	1,275	640	1,213-20	8-17-63	Injection Well		---	---	---	---	---	Inj.
G-19	1,330	4-1/2	1,330	661	1,284-91	8-5-63	19	TSTM	11-16-63	17	235	2,687	17	Prod.
G-20	1,213	4-1/2	1,213	543	1,132-59	7-29-63	12	TSTM	---	---	---	---	---	Inj.
G-21	1,332	2-7/8	1,332	918	1,272-82	8-29-63	Injection Well		---	---	---	---	---	Prod.
G-22	1,658	4-1/2	1,658	858	1,602-16	8-28-63	117	234	1-5-64	27	444	6,731	27	Prod.
G-23	1,235	2-7/8	1,255	578	1,208-16	12-15-63	Injection Well		---	---	---	---	---	Inj.
G-24	1,280	4-1/2	1,280	190(1)	1,226-31	12-26-63	41	300 (Est)	1-4-64	66	227	1,913	66	Prod. (3)

- (1) Top of cement by survey.
(2) Wells proposed for conversion
(3) Approved injection well; to be converted at later date.