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New Mexico Oil Conservation Commission, Drawer DD, Artesia, New Mexico.		Para Lange V

Re: Grayburg-Jackson Unit (R-2323) Eddy County, New Mexico

Gentlemen:

In accordance with Rule 701 (B) and 701 (E), please find the following information in support of our request to obtain administrative approval to convert Well No. 5-1 to water injection status on the Grayburg-Jackson Unit (R-2323):

- 1. Plat showing proposed injection wells and location of all other wells within a two mile radius.
- 2. No logs on the proposed injection wells are available.
- 3. Plat showing unit boundaries, current injection wells and proposed injection wells.
- 4. A diagrammatic sketch of the proposed injection well casing programs.
- 5. Waterflood application data sheet showing all pertinent information.
- 6. Copy of a letter to the State Engineer transmitting a copy of the application requesting his approval.
- 7. Copy of letter to the offset operator requesting waivers of no objection and indicating that a copy of the application was transmitted to them.
- 8. State Form C-116 showing wells responding to waterflood.

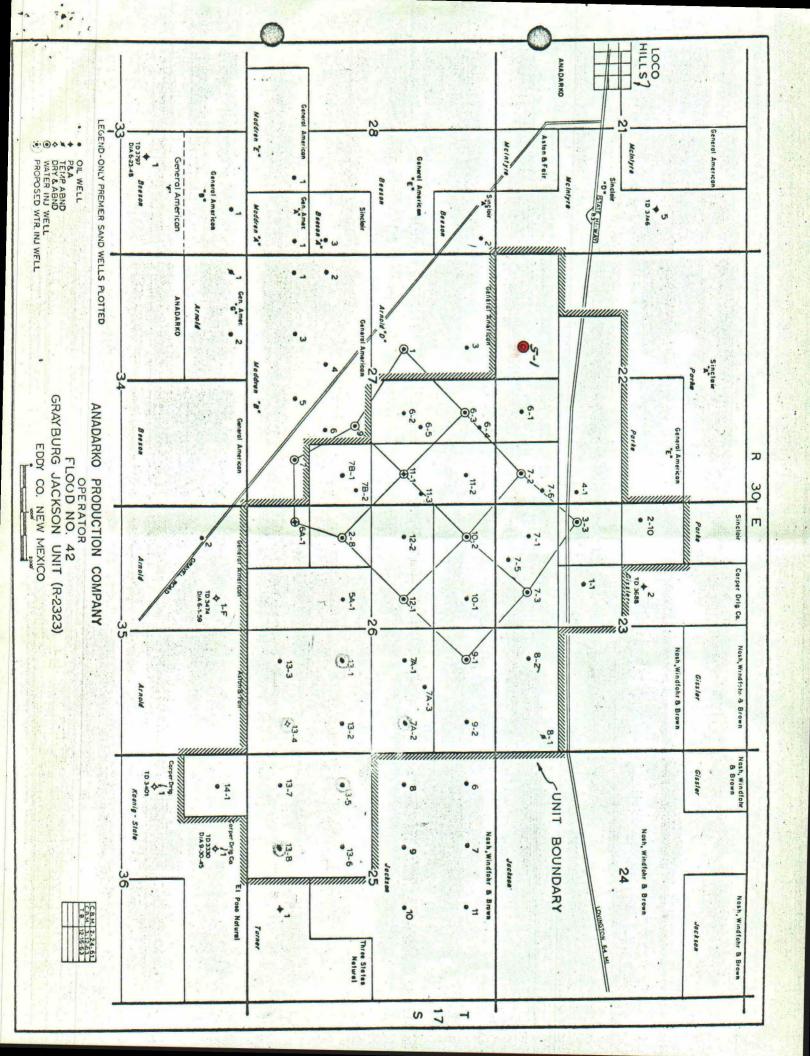
Yours very truly,

AGARKO PRODUCTION COMPANY

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Superintendent Secondary Recovery Division

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INJECTION WELL DATA

• • • •			GRAYBURG EDDY	-JACKSON UNI COUNTY, NEW	I (R-2323) MEXICO	Comp date	5/19/05	
		WELL NO.	5-1					· · · · · · · · · · · · · · · · · · ·
	MC	SIZE	8-5/8"			· · ·		
	DIALS O BOA		510*					
	STREACE	SXS. CEMENT	50					
	CASTNG	SIZE	4-1/2"	Muss				
	PRODITCTTOM CA	1	3,2061			•		
	PRONI	SXS. CEMENT	100	Tol work				
		SIZE						
	TUBTNG	LENGTH	· · · ·		, ,			
		PACKER DEPTH						
	INJ.	DLPTH THRU CASING OR TUBING	3,168-74 • Casing					• •

NEW MEXICO OIL CONSERVATION COMMISSION APPLICATION TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL OR GAS

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ield	Grayb	urg-Jackson County Ec	ldy	District
perator_	Anada	rko Production Company	_ Date _	November 12, 1965
		Box 9317, Fort Worth, Texas		
ease (s) & Nu	mber (s) <u>Grayburg-Jackson Unit (R-2323)</u>		
eservoir	P	remier Discovery	Date_A	oril, 1930
·				
	IF A	VE ANY INJECTION PERMITS BEEN GRANTED PREVIOUSLY INSWER TO ABOVE QUESTION IS "NO", <u>ALL OPERATORS IN TH</u> FIFIED OF THIS APPLICATION, AND COPIES OF NOTIFICATIO	IE RESER	VOIR MUSTBE
Rese	ervoir an	d fluid characteristics		RECEIVE
А.	Infor	nation on entire reservoir		NOV 1 6 1963
	1.	Name of formation <u>Grayburg-Jackson - Premier</u>		
	2.	Estimated productive area of entire reservoirUnknow	<u>m</u>	ARTELLA, DEPENDEN
	3.	Composition (sand, limestone, dolomite, etc.) <u>Dand</u>	- <u></u>	
	4.	Type of structure <u>Stratigraphic Trap</u> (Include cross-section as	nd structu	ral maps)
	5.	Subsea depth of oil-water contact None Gas-oil		
	6.	Type drive during primary production <u>Solution Gas</u>		
	7.	Original BHP <u>1,300</u> Current BHP		
	8.	Was gas cap present originally? <u>No</u> At		
	9.	Ratio of gas cap volume to oil zone volume		
	10.	Saturation pressure Formation Volu	ime Facto	<u>1,28</u>
в.	Inform	nation on proposed project area		
	1.	Number of productive acres in lease (s) within project are	ea1,6	.00
	2.	Average depth to top of pay	••• ••• ••	
	3.	Average effective pay thickness (feet)13		
	4.	Average porosity (%) Average horizontal permeability (mds.)36	Denus	5.60
	5.			
	6. 7.	Connate water content (% of pore space) Gravity of oil (API) 37 Viscosity	Fat]	5 (7)
			الم مبلكات .	• <u>2</u> \/F
Prim	ary Proc	luction history		
	1.	Date first well completed on lease (s) April, 1930		
	2.	Oil, gas, water production by months since discovery. (C	Fraphicall	y as well as in
		tabular form.)		
	3.	Stage of depletion of project area		
	4.	Number of producing wells on each lease in project area.		
	5. 6	Average daily oil production per well at present time		
	6. 7.	Average gas-oil ratio <u>Nil</u> Water productio Cumulative oil production to date from lease (s) <u>1.7</u>		
Resu	ults expe		+ / ,000	
	1.	Estimated original oil in place (bbls.)		
	2.	Estimated oil saturation at present time (% of pore space		
	3.	Estimated residual oil saturation at abandonment		
	4.	Estimated ultimate additional oil that will be recovered a injection (bbls.) 1,750,000		result of
Injec	ction			
	1	Type of Injection Thuld Australian The Trees Martin		
	1. 2.	Type of Injection Fluid (water, gas, LPG) <u>Water</u>		
	2. 3.	Source of injected fluid (formation, depths) <u>Commerce</u> Injection pattern and spacing <u>5 Spot 80 A</u>		
	4.	Maximum injection pressure to be used (psi)200		
	5.	Estimated maximum per well rate of injection (bbls.)		
		List complete injection well data on reverse side of this		
	6.	mise comprete injection well data on reverse side of this	sneet.	



November 12, 1965

RECEIVES

NOV 1 6 1965

State Engineer, Capitol Building, Santa Fe, New Mexico.

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ANTEDIA, OFFICE

Re: Grayburg-Jackson Unit (R-2323) Eddy County, New Mexico

Gentlemen:

Attached please find the data necessary as required by Rule 701 (B) to obtain administrative approval to convert unit well no. 5-1 to water injection. A combination of fresh water purchased from the Caprock Water Company and produced water will be injected through casing and perforations.

If everything is in order, please notify the Commission that you have no objection to this request.

Yours very truly,

ANADARKO PRODUCTION COMPANY

E. A. Riley Superintendent Secondary Recovery Division

BGW:1h Attch.



ANADARKO PRODUCTION COMPANY

3109 WINTHROP AVENUE

JE P. D. BOX 9317

FORT WORTH, TEXAS 76107

CABLE ADDRESS: ANDARK

November 12, 1965

RECEIVED

General American Oil Company of Texas, Meadows Building, Dallas, Texas.

NOV 1 6 1965

Attention: Mr. Kent Nicholson

AFTERIA, DEFICE

Re: Grayburg-Jackson Unit (R-2323) Eddy County, New Mexico

Gentlemen:

We are requesting permission to convert the Unit Well No. 5-1 to water injection status as specified by Rule 701 (E) Paragraph 5. Administrative approval may be obtained if the offset operators waive any objection to the request; therefore we are requesting that you sign three copies of the attached waiver letter, forward two copies to the New Mexico 0il Conservation Commission and return one copy to us.

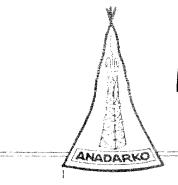
A copy of the application data is attached for your files.

Your early attention to this matter will be greatly appreciated.

Yours very truly,

ANADARKO PRODUCTION COMPANY

E. A. Riley (/ Superintendent Secondary Recovery Division



ANADARKO PRODUCTION COMPANY

3109 WINTHROP AVENUE P. O. BOX 9317 FORT WORTH, TEXAS 76107 CABLE ADDRESS: ANDARK

November 12, 1965

KECEIVEL

New Mexico Oil Conservation Commission, Drawer DD, Artesia, New Mexico.

NOV 1 6 1965

O. C. C. ARTERIA: DAPL 1

Re: Grayburg-Jackson Unit (R-2323) Eddy County, New Mexico

Gentlemen:

We have no objection to Anadarko Production Company's

request for administrative approval to convert their Unit Well

No. 5-1 to water injection status.

Yours very truly,

ANADARKO PRODUCTION COMPANY

E. A. Riley V Superintendent Secondary Recovery Division

BGW:1h

APPROVED:

General American Oil Company of Texas

Ву_____

Date____

GAS-OIL RATIO TESTS	NEW MEXICO OIL CONSERVATION COMMISSION
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C-116 Revised 1-1-65

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	NOV 1 6 1985 D. C. C. D. C. C. D. C. C. D. C. C.	Grayburg-Jackson Unit (R-2323) 6-4 B 27 178 30E 8-14-65 P	Grayburg-Jackson Unit (R-2323) 6-4 B 27 178 30E 7-10-65 P	Grayburg-Jackson Unit (R-2323) 6-4 B 27 178 30E 6-27-65 P	Grayburg-Jackson Unit (R-2323) 6-4 B 27 178 301 5-20-65 P	LEASE NAME NO. U S T R TEST SIZE PRESS.	WELL LOCATION DATE OF 2 CHOKE THG.	Address TYPE OF 31.09 WINTHROP AVE., FORT WORTH, TEXAS TEST - (X) Sched	OPERATOR AN ADARKO PRODUCTION COMPANY POOL GRAYDURG-JACKSON
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it the above to the best		LtN	LIN	LIN	Nil	GAS M.C.F.	TEST		
I hereby certify that the above information is true and complete to the best of my know- ledge and belief.	•	· · · · · · · · · · · · · · · · · · ·				CU.FT/BBL	GAS - OIL	Special X	

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 'mperature 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.

Supt. Second November 12, 1965 Recovery Division (Tide) (Date) (mature)

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ан. 511. <u>__</u>__ TTON NY D H. COM ANADARKO Ω C ס א P. D. BDX 9317 ← FORT WORTH, TEXAS 76107 3109 WINTHROP AVENUE CABLE ADDRESS: ANDARK ANADARKC ŝ November 12, 1965

New Mexico Oil Conservation Commission, Drawer DD, Artesia, New Mexico.

> Re: Grayburg-Jackson Unit (R-2323) Eddy County, New Mexico

Gentlemen:

We have no objection to Anadarko Production Company's

request for administrative approval to convert their Unit Well

No. 5-1 to water injection status.

Yours very truly,

ANADARKO PRODUCTION COMPANY

E. A. Riley / Superintendent Secondary Recovery Division

BGW:1h

APPROVED:

General American Oil Company of Texas

By Hant Cathon

Date_____

RECEIVED

NOV 1 8 1965

ARTERLA DEFETTE

OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

November 18, 1965

Anadarko Production Company P. O. Box 9317 Fort Worth, Texas 76107

Attention: Mr. E. A. Riley

Gentlemen:

Reference is made to applications requesting administrative approval to convert wells to water injection status in the Grayburg-Jackson and Pearsall Queen Sand Units in accordance with Rule 701. The following information required by Rule 701 (B) (3), has been omitted from the schematic drawings of both applications and is hereby requested:

> Tops of cement surrounding surface and production casing - all wells. Type of packers to be used in Pearsall Unit wells. Since tubing is not to be used in Grayburg-Jackson well - completion date and whether or not casing was new or used.

Please supply the State Engineer Office with a copy of the above information.

Enclosed is Memo No. 2-65 pertaining to naming of leases and numbering of wells; it would be appreciated if you would comply by designating tracts and well numbers as set out in 2 (B) of the Memo.

Very truly yours,

J. E. KAPTEINA Engineer



STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

December 7, 1965

ADDRESS CORRESPONDENCE TO: STATE CAPITOL SANTA FE, NEW MEXICO 87501

Re: Grayburg-Jackson Unit (R-2323) Eddy County

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

Dear Mr. Porter:

Reference is made to the application of Anadarko Production Co. which seeks administrative approval to convert well No. 5-1 to water injection (Order R-2323) in their Grayburg-Jackson Unit.

Since this well was completed at a recent date (August 19, 1965) and the production casing is new $4\frac{1}{2}$ " OD, 11.60#, J-55 casing, this office offers no objection to the granting of the application.

Very truly yours,

S. E. Reynolds State Engineer

By:

Chief Water Rights Division

tmr

cc: Anadarko Production Company Attn: E. A. Riley

F. H. Hennighausen