

AMBASSADOR OIL CORPORATION

AMBASSADOR BUILDING
3109 WINTHROP P. O. Box 9338
FORT WORTH 7, TEXAS

C. HARRISON COOPER
PRESIDENT
CHIEF EXECUTIVE OFFICER

CABLE ADDRESS
FRANJO, FORT WORTH

JUNE 17, 1965

RECEIVED

JUN 21 1965

O. C. C.
ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
207 CARPER BUILDING
ARTESIA, NEW MEXICO

RE: FLOOD No. 42
GRAYBURG-JACKSON UNIT
(R 2323)
EDDY COUNTY, NEW MEXICO

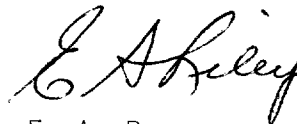
GENTLEMEN:

AS PER RULE 701 (B) PLEASE FIND ATTACHED THE FOLLOWING DATA WHICH IS BEING UTILIZED TO REQUEST ADMINISTRATIVE APPROVAL TO CONVERT UNIT WELL No. 6A-1, LOCATED IN UNIT M, SW/4 SW/4 SEC. 26, T-17S, R-30E, EDDY COUNTY, TO WATER INJECTION STATUS. THIS PROJECT WAS APPROVED FOR WATERFLOODING BY ORDER No. R-2323.

1. PLAT SHOWING LOCATION OF PROPOSED INJECTION WELL AND ALL OTHER WELLS IN A TWO MILE RADIUS.
2. FORM C-116
3. NO LOG OF THE PROPOSED INJECTION WELL IS AVAILABLE.
4. A DIAGRAMMATIC SKETCH SHOWING CASING AND TUBING DATA.
5. A WATERFLOOD APPLICATION DATA SHEET WITH PERTINENT RESERVOIR AND LEASE DATA.
6. COPY OF A LETTER TO THE STATE ENGINEER.
7. COPY OF CORRESPONDENCE TRANSMITTING A WAIVER LETTER TO THE OFFSET OPERATOR.
8. MAP OF UNIT AREA.

YOUR EARLY ATTENTION TO THIS MATTER WILL BE APPRECIATED.

YOURS VERY TRULY,



E. A. RILEY
ASSISTANT VICE-PRESIDENT

BGW/HB

AMBASSADOR OIL CORPORATION

AMBASSADOR BUILDING

3109 WINTHROP P. O. Box 9338

FORT WORTH 7, TEXAS

C. HARRISON COOPER
PRESIDENT
CHIEF EXECUTIVE OFFICER

22
CABLE ADDRESS
FRANJO, FORT WORTH

JUNE 17, 1965

GENERAL AMERICAN OIL COMPANY OF TEXAS
MEADOWS BUILDING
DALLAS, TEXAS

ATTENTION: MR. KENT NICHOLSON

RE: GRAYBURG-JACKSON UNIT
(R-2323)
EDDY COUNTY, NEW MEXICO

GENTLEMEN:

WE ARE REQUESTING PERMISSION TO CONVERT THE UNIT WELL
No. 6A-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 RE-
QUESTING THAT YOU SIGN THREE COPIES OF THE ATTACHED WAIVER LETTER,
FORWARD TWO COPIES OF THE NEW MEXICO OIL 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,

E. A. RILEY
ASSISTANT VICE-PRESIDENT

EGW/HD

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JUN 21 1965

**O. C. C.
ARTEBIA, OFFICE**

INVESTIGATION OF THE PROBLEM

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O. C. C.
ARTEBIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Ambassador Oil Corporation POOL Grayburg-Jackson Unit (R-2323)
ADDRESS P.O. Box 9338, Ft. Worth, Te MONTH OF June, 1965
SCHEDULED TEST _____ COMPLETION TEST _____ SPECIAL TEST X _____ (Check One)
(See Instructions on Reverse Side)

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	
Grayburg-Jackson Unit (R-2323)	5A-1	5/20	Pump	-	24	-	5	12	nil	nil
	5A-1	10/5	Pump	-	24	-	3	4	nil	nil
NOTE: This well should be directly affected by well #6A-1										
							RECEIVED			
							JUN 21 1965			
							O. C. C. ARTESIAN OFFICE			

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 June 3, 1965

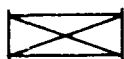
Ambassador Oil Corporation
Company
By E. A. Riley
E. A. RILEY
VICE-PRESIDENT
Title

DATE JUNE 3, 1965 WELL NO. 6A-1 LEASE GRAYBURG-JACKSON FIELD GRAYBURG-JACKSON
UNIT (R-2323)

300'-8 7/8" CASING CMTD W/25 SXS

PERFORATED 3,240' TO 3,250' W/2 SHOTS/FOOT

4 1/2" CSG. @ 3,286' CMTD W/100 SXS



BRIDGE PLUG



PACKER



CENTRALIZER



SCRATCHER



BASKET



PERFORATION

APPLICATION TO INJECT FLUID
INTO A RESERVOIR PRODUCTIVE OF OIL OR GAS

Field Grayburg-Jackson County Eddy District
Operator Ambassador Oil Corporation Date June 17, 1965
Address P.O. Box 9338, Ft. Worth, Texas
Lease (s) & Number (s) Grayburg-Jackson Unit (R-2323)
Reservoir Premier Discovery Date April, 1930

HAVE ANY INJECTION PERMITS BEEN GRANTED PREVIOUSLY IN THIS RESERVOIR? _____
IF ANSWER TO ABOVE QUESTION IS "NO", ALL OPERATORS IN THE RESERVOIR MUST BE
NOTIFIED OF THIS APPLICATION, AND COPIES OF NOTIFICATION ATTACHED HERETO.

RECEIVED

I. Reservoir and fluid characteristics

A. Information on entire reservoir

JUN 21 1965

1. Name of formation Grayburg-Jackson-Premier Zone O. C. C.
2. Estimated productive area of entire reservoir unknown ARTESIA, OFFICE
3. Composition (sand, limestone, dolomite, etc.) sand
4. Type of structure Stratigraphic Trap
(Include cross-section and structural maps)
5. Subsea depth of oil-water contact none Gas-oil contact none
6. Type drive during primary production SOLUTION GAS
7. Original BHP 1,300 Current BHP 0
8. Was gas cap present originally? no At present? no
9. Ratio of gas cap volume to oil zone volume --
10. Saturation pressure -- Formation Volume Factor 1.28

B. Information on proposed project area

1. Number of productive acres in lease (s) within project area 1600
2. Average depth to top of pay 3300
3. Average effective pay thickness (feet) 13
4. Average porosity (%) 19
5. Average horizontal permeability (mds.) 36 Range 5-60
6. Connate water content (% of pore space) 25
7. Gravity of oil (API) 37 Viscosity est. 1.5 CP

II. Primary Production history

1. Date first well completed on lease (s) May 1930
2. Oil, gas, water production by months since discovery. (Graphically as well as in tabular form.)
3. Stage of depletion of project area Stripper
4. Number of producing wells on each lease in project area 35
5. Average daily oil production per well at present time 2.2
6. Average gas-oil ratio nil Water production (%) none
7. Cumulative oil production to date from lease (s) 1,745,000

III. Results expected

1. Estimated original oil in place (bbls.) 9,000,000
2. Estimated oil saturation at present time (% of pore space) 50
3. Estimated residual oil saturation at abandonment 30
4. Estimated ultimate additional oil that will be recovered as a direct result of injection (bbls.) 1,750,000

IV. Injection

1. Type of Injection Fluid (water, gas, LPG) Water
2. Source of injected fluid (formation, depths) Commercial Water Supplier
3. Injection pattern and spacing 5 spot 80 acres
4. Maximum injection pressure to be used (psi) 1,200
5. Estimated maximum per well rate of injection (bbls.) 500
6. List complete injection well data on reverse side of this sheet.

(APPLICANTS MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.)

INJECTION WELL DATA

LEASE NAME & NO. WELL NUMBER		Grayburg-Jackson (R-2323) 6A-1				
SURFACE CASING	SIZE	8 5/8"				
	LENGTH	300'				
	SACKS & TYPE CEMENT	25				
PRODUCTION CASING	SIZE	4 1/2"				
	LENGTH	3,286'				
	SACKS & TYPE CEMENT	700				
TUBING	LENGTH	None				
	PACKER DEPTH	None				
INJECTION	DEPTH	3,240				
	THRU CASING OR TUBING?	Casing				

June 17, 1965

RECEIVED

JUN 21 1965

O. C. C.
ARTERIA, OFFICE

State Engineer Office
Capitol Building
Santa Fe, New Mexico

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

Gentlemen:

Please find attached the necessary data required by Rule 701 (B) to obtain administrative approval to convert Unit Well No. 6A-1 to water injection. Fresh water purchased from the Caprock Water Company will be injected through casing and through perforations.

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

Yours very truly,

E.A. Riley
Assistant Vice-President
Manager of Secondary Recovery Dev.

BGW/hb

REVISED

126

2001 15000

3000

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 07-07-2004 BY 60322

(TS-6)

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Sponholz (1980).

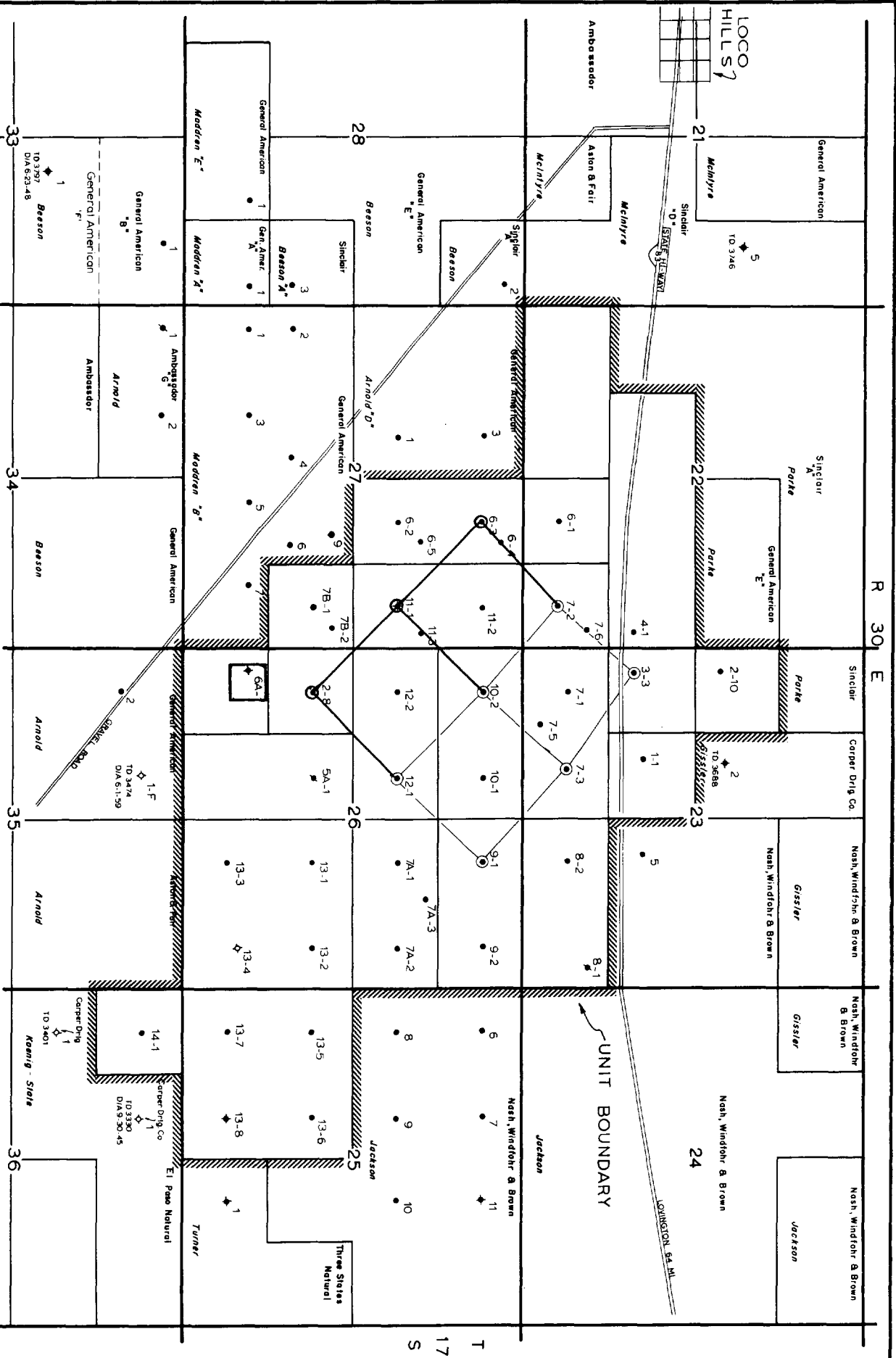
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DATE 07-26-2008 BY 60322 UCBAW/BJS

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AMBASSADOR OIL CORPORATION

AMBASSADOR BUILDING

3109 WINTHROP P. O. BOX 9338

FORT WORTH 7, TEXAS

C. HARRISON COOPER
PRESIDENT
CHIEF EXECUTIVE OFFICER

CABLE ADDRESS
FRANJO, FORT WORTH

JUNE 17, 1965

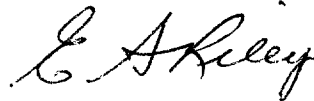
NEW MEXICO OIL CONSERVATION COMMISSION
P.O. Box 871
SANTA FE, NEW MEXICO

RE: GRAYBURG-JACKSON UNIT
(R 2323)
EDDY COUNTY, NEW MEXICO

GENTLEMEN:

WE HAVE NO OBJECTION TO AMBASSADOR OIL CORPORATION'S
REQUEST FOR ADMINISTRATIVE APPROVAL TO CONVERT THEIR UNIT
WELL No. 6A-1 TO WATER INJECTION STATUS.

YOURS VERY TRULY,



E. A. RILEY
ASSISTANT VICE-PRESIDENT

BGW/HB

APPROVED:
GENERAL AMERICAN OIL COMPANY OF TEXAS

BY *[Handwritten Signature]*

DATE *June 24, 1965*

OIL CONSERVATION COMMISSION
Artesia DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 6-21-65

Re: Proposed ~~NSL~~ WFX

Proposed NWU _____

Proposed NSL _____

Proposed NFO _____

Proposed DC _____

Gentlemen:

I have examined the application dated 6-17-65
for the Ambassador Oil Corp, G-J Unit Tr 6A #1M 26-
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

No objections to approval. You will note that
Form C-112, attached, is not for the proposed injection
well. We have taken one copy of the application
for our files.

Yours very truly,

G. P. L. L.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

June 29, 1965

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:

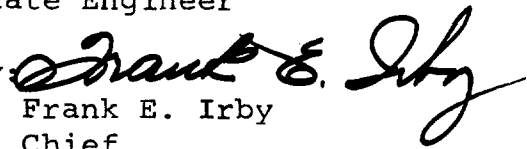
Reference is made to the application of Ambassador Oil Corporation dated June 17, 1965 which seeks administrative approval to convert Grayburg-Jackson Unit Well No. 6A-1 to water injection.

This office offers no objection to the granting of the application provided the subject well is equipped with properly installed and adequately functioning tubing and packer with the packer set well below the top of the cement surrounding the 4½ inch casing, which is set at 3286 feet.

Yours truly,

S. E. Reynolds
State Engineer

FEI/ma
cc-Ambassador Oil Co.
F. H. Hennighausen

By: 
Frank E. Irby
Chief
Water Rights Div.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

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

June 29, 1965

S. E. REYNOLDS
STATE ENGINEER

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

Dear Mr. Porter:

Reference is made to the application of Ambassador Oil Corporation dated June 17, 1965 which seeks administrative approval to convert Grayburg-Jackson Unit Well No. 6A-1 to water injection.

This office offers no objection to the granting of the application provided the subject well is equipped with properly installed and adequately functioning tubing and packer with the packer set well below the top of the cement surrounding the 4 1/2 inch casing, which is set at 3286 feet.

Yours truly,

S. E. Reynolds
State Engineer

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

Witness
Ambassador Oil Co.
S. H. Henniphausen