

AMBASSADOR OIL CORPORATION

AMBASSADOR BUILDING

3109 WINTHROP P. O. Box 9338

FORT WORTH 7, TEXAS

C. HARRISON COOPER
PRESIDENT

CHIEF EXECUTIVE OFFICER

April 27, 1965

CABLE ADDRESS
FRANJO, FORT WORTH

New Mexico Oil Conservation Commission
207 Carper Building
Artesia, New Mexico

Re: Flood No. 41
Loco Hills
Eddy County, New Mexico

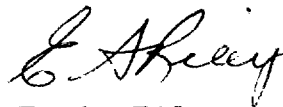
Gentlemen:

As per Rule 701 (B) please find attached the following data which is being utilized to request administrative approval to convert Federal "L" No. 6, located in Unit E, SW/4 NW/4 Sec. 31, T-17S, R-30E, Eddy County, to water injection status. This project was approved for waterflooding by Order No. R-2032 dated July 13, 1961.

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.

Your early attention to this matter will be appreciated.

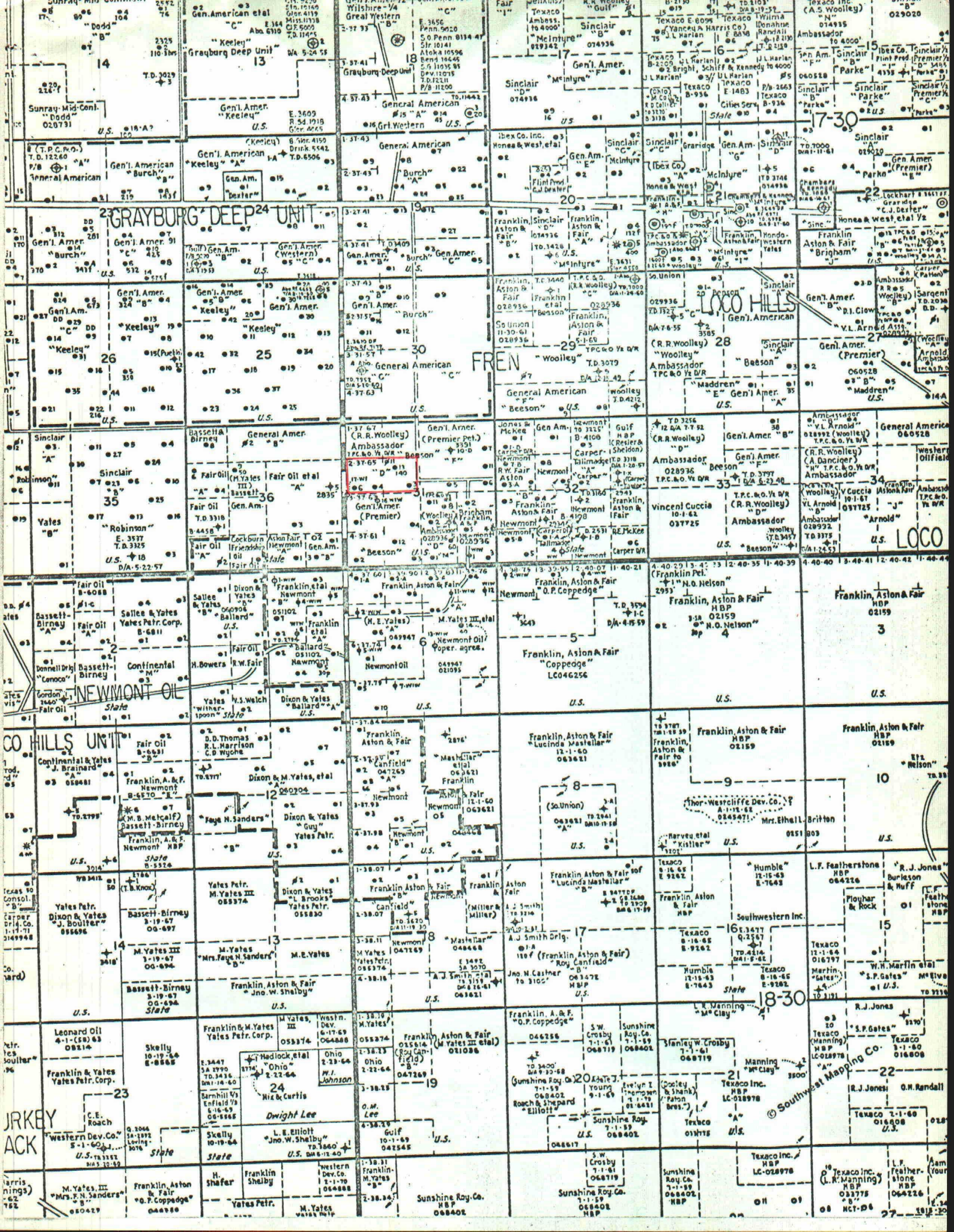
Yours very truly,



E. A. Riley
Assistant Vice-President

BGW/hb

See - in case of flood



NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Ambassador Oil Corporation POOL Loco Hills
ADDRESS P.O. Box 9338, Ft. Worth, Texas MONTH OF April, 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	
Loco Hills (R-2032)	L-6	<u>Feb</u> Apr	<u>8 1/2 inch - per</u> Pump	-	24	-	0	28	-	Negl.

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 April 26, 1965

Ambassador Oil Corporation

Company

By E. Arcey

Asst. Vice Pres. Mgr. Secondary Rec.

Title

DATE

4-26-65

WELL NO.

L-6

LEASE

FLOOD No. 41

FIELD

MOCC HILLS

48'-10³/₄" CASING CMTD W/10 SXS

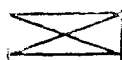
2,730'-2⁷/₈" O.D. TUBING

PACKER SET AT 2,734'

PERFORATED 2,752' TO 2,762' W/2 SHOTS/FEET

3,035'-5¹/₂" CASING CMTD W/600 SXS CIRCULATED SURFACE

T.D. 3,040'



BRIDGE PLUG



PACKER



CENTRALIZER



SCRATCHER



BASKET



PERFORATION

RAILROAD COMMISSION OF TEXAS

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

Field Loco Hills County Eddy District _____
Operator Ambassador Oil Corporation Date April 26, 1965
Address P.O. Box 9338, Fort Worth, Texas
Lease (s) & Number (s) Federal "L" Serial No. LC-02,8936 (d)
Reservoir Loco Hills Discovery Date February, 1939

HAVE ANY INJECTION PERMITS BEEN GRANTED PREVIOUSLY IN THIS RESERVOIR? Yes Order No. R-2032
IF ANSWER TO ABOVE QUESTION IS "NO", ALL OPERATORS IN THE RESERVOIR MUST BE
NOTIFIED OF THIS APPLICATION, AND COPIES OF NOTIFICATION ATTACHED HERETO.

I. Reservoir and fluid characteristics

A. Information on entire reservoir

Loco Hills

1. Name of formation _____
2. Estimated productive area of entire reservoir 12,000 Acres
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 Unknown
6. Type drive during primary production Solution - gas
7. Original BHP 1,000 psi (est.) Current BHP 20 psi
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 _____

B. Information on proposed project area

1. Number of productive acres in lease (s) within project area 80
2. Average depth to top of pay 2,850'
3. Average effective pay thickness (feet) 10
4. Average porosity (%) 20
5. Average horizontal permeability (mds.) 50 Range 1- 300
6. Connate water content (% of pore space) 25
7. Gravity of oil (API) 30 Viscosity unknown

II. Primary Production history

1. Date first well completed on lease (s) April 1940
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 8
5. Average daily oil production per well at present time 24
6. Average gas-oil ratio Nil Water production (%) 83
7. Cumulative oil production to date from lease (s) 596,054

III. Results expected

1. Estimated original oil in place (bbls.) 4,000,000
2. Estimated oil saturation at present time (% of pore space) 69
3. Estimated residual oil saturation at abandonment 35
4. Estimated ultimate additional oil that will be recovered as a direct result of injection (bbls.) 700,000

IV. Injection

1. Type of Injection Fluid (water, gas, LPG) Fresh water
2. Source of injected fluid (formation, depths) Commerical water supplier
3. Injection pattern and spacing 20 Acre 5 Spot
4. Maximum injection pressure to be used (psi) 1,600
5. Estimated maximum per well rate of injection (bbls.) 600
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		Federal "L" 6					
SURFACE CASING	SIZE	10 3/4					
	LENGTH	48'					
	SACKS & TYPE CEMENT	10					
PRODUCTION CASING	SIZE	5 1/2"					
	LENGTH	3,035'					
	SACKS & TYPE CEMENT	600					
TUBING	LENGTH	2,730'					
	PACKER DEPTH	2,734'					
INJECTION	DEPTH	2,752					
	THRU CASING OR TUBING?	tubing					

AMBASSADOR OIL CORPORATION

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

CABLE ADDRESS
FRANJO, FORT WORTH

C. HARRISON COOPER
PRESIDENT
CHIEF EXECUTIVE OFFICER

April 27, 1965

State Engineer Office
Capitol Building
Santa Fe, New Mexico

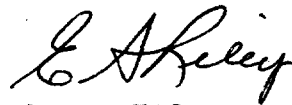
Re: Loco Hills Project
Eddy County, New Mexico

Gentlemen:

Please find attached the necessary data required by Rule 701 (B) to obtain administrative approval to convert Federal "L" No. 6 to water injection. Fresh water purchased from the Caprock Water Company will be injected thru tubing and below a packer.

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 Div.

BGW/hb

AMBASSADOR OIL CORPORATION

AMBASSADOR BUILDING

3109 WINTHROP P. O. BOX 9338

FORT WORTH 7, TEXAS

CABLE ADDRESS
FRANCO, FORT WORTH

C. HARRISON COOPER
PRESIDENT
CHIEF EXECUTIVE OFFICER

April 27, 1961

These engineers' Office
Capital Building
Santa Fe, New Mexico

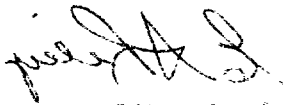
Re: Poco Hills 2nd sec
Bddy County, New Mexico

Gentlemen:

Please find attached the necessary data required by
Rule 701 (E) to obtain administrative approval to convert
Federal L. No. 6 to water injection. These water produced
from the Caprock water company will be injected thru tubing
and below a packer.

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

Yours very truly,



E. A. Wiley

Assistant Vice-President
Manager of Secondary Recovery Div.

EGW/jc

AMBASSADOR OIL CORPORATION

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

C. HARRISON COOPER
PRESIDENT
CHIEF EXECUTIVE OFFICER

April 27, 1965

CABLE ADDRESS
FRANJO, FORT WORTH

RECEIVED

MAY 5 1965

O. C. C.
ARTESIA, OFFICE

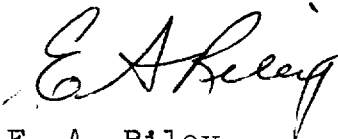
New Mexico Oil Conservation Commission
P.O. Box 871
Santa Fe, New Mexico

Re: Loco Hills Project
Eddy County, New Mexico

Gentlemen:

We have no objection to Ambassador Oil Corporation's request for administrative approval to convert their Federal "L" No. 6 (R 2032) to water injection status.

Yours very truly,

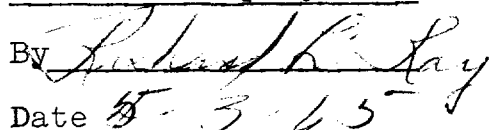


E. A. Riley
Assistant Vice-President
Manager of Secondary Recovery Div.

EGW/hb

Approved:
Fair Oil Company

By



Date

5-3-65



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

May 18, 1965

S. E. REYNOLDS
STATE ENGINEER

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:

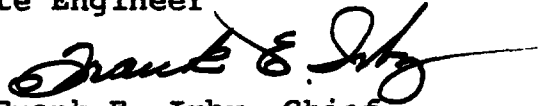
Reference is made to the application of Ambassador Oil Corporation which seeks administrative approval to convert Federal "L" No. 6 in Unit E SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 31, T. 17 S., R. 30 E., to water injection.

This office offers no objection to the granting of the application, provided the packer on the end of the tubing is set well below the top of cement surrounding the 5 $\frac{1}{2}$ inch casing.

Yours truly,

S. E. Reynolds
State Engineer

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

By: 
Frank E. Irby, Chief
Water Rights Division