

WATER FLOOD ASSOCIATES, INC.

KENNEDY NORTH MALJAMAR PROJECT
PRODUCTION HISTORY

YEAR	BARRELS	YEAR	BARRELS
1927	11601	1944	NR
1928	8432	1945	NR
1929	9430	1946	NR
1930	7071	1947	NR
1931	5093	48	
1932	8991	49	19568
1933	7251	50	22415
1934	6017	51	31126
1935	5351	52	17880
1936	4157	53	10800
1937	4738	54	10225
1938	4067	55	6182
1939	4259	56	6782
1940	NR	57	5305
1941	NR	58	4103
1942	NR	59	4375
1943	NR	60	3867

*NR No RECORD

KENNEDY OIL COMPANY
WELL DATA

NORTH MALJAMAR FIELD
LEA COUNTY, NEW MEXICO

WELL	LOCATION	ELEV	COMP DATE	I.P. B/D	SURF CASG.	OIL STRING	T.D.	REMARKS
1A	M-5-17-32	4050 GL	12 MAR 27	100	12 1/2 @ 770	6 5/8 @ 3645	4230 3800 PB.	Disc. WELL
2A	P-6-17-32	4045 GL	30 MAY 40	45	8 5/8 @ 812 50 SAX	7" @ 3495 100 SAX	3980	3335
3A	A-7-17-32	4042 GL	15 JAN 41	29	8 5/8 @ 804 50 SAX	7" @ 3566 100 SAX	3970	P.A. 1942
3B	L-5-17-32	4055 GL	4 DEC. 48	400	8 5/8 @ 890 50 SAX	5 1/2 @ 3642 100 SAX	4007	3476
4B	I-6-17-32	4062 GL	4 MAR 49	-0-	8 5/8 @ 922 50 SAX		4015	P.A.
5B	E-5-17-32	4072 GL	19 SEP 50	150	8 5/8 @ 905 50 SAX	5 1/2 @ 3890 100 SAX	4025	3740
6B	D-5-17-32	4101 GL	15 DEC 50	18	8 5/8 @ 948 50 SAX	7" @ 3677 100 SAX	4072	3717
7A	M-5-17-32	4055 GL	20 MAR 53	-0-	8 5/8 @ 869 50 SAX	5 1/2 @ 3638 50 SAX	4019	P.A.

EXHIBIT III

KENNEDY OIL COMPANY
WELL PRODUCTION DATA

NORTH MALJAMAR FIELD
LEA COUNTY, NEW MEXICO

WELL	I.P. B/D	PRESENT RATE B/M	CUM. RECOVERY, BBLs	STIMULATIONS
1A	100	100	160,000	SHOT: 260 QTS: 3735-85
2A	45	85	35,026	SHOT: 120 QTS: 3964-75 & 3715-35
3A	29	P & A	3,740 ✓	SHOT: 300 QTS: 3690-3715 & 3785-3825
3B	400	70	75,852	SHOT: 280 QTS
4B	-0-	P & A	-0-	NONE: DRY HOLE
5B	150	40	25,313	SHOT: 160 QTS
6B	18	45	11,665	HYDRO FRAC: 4036-45
7A	-0-	P & A	-0- ✓	DRY HOLE
TOTAL		<u>340</u>	<u>311,596</u>	

EXHIBIT IV

WATER FLOOD ASSOCIATES, INC.

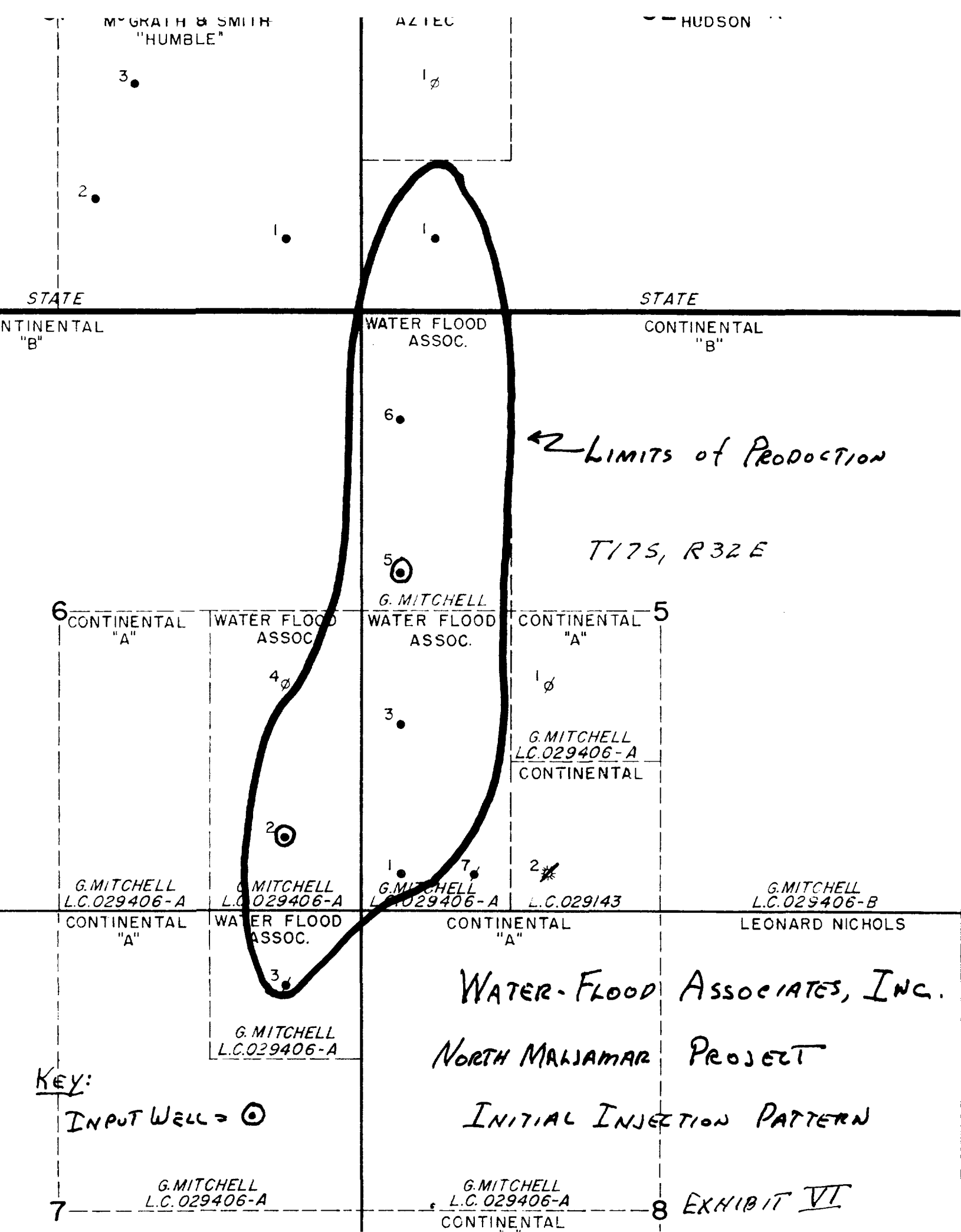
KENNEDY-NORTH MALJAMAR PROJECT

LEA COUNTY, NEW MEXICO

WELL	CALCULATED TOP OF CEMENT	
	SURFACE CASING	PRODUCTION CASING
1	UNKNOWN	UNKNOWN
2	212	3335
3A	202	P&A
3B	288	3406
4	320	DRY HOLE
5	303	3740
6	346	3517 -
7	267	DRY HOLE

ABOVE DEPTH ARE CALCULATED TOPS OF CEMENT BELOW SURFACE OF GROUND USING 4% GEL CEMENT TABLES.

EXHIBIT V



CAPROCK WATER COMPANY

P. O. BOX 607

ARTESIA, NEW MEXICO

October 13, 1961

Water Flood Associates, Inc.
Box 376
Artesia, New Mexico

Gentlemen:

With reference to your request for Caprock Water Company to furnish water for your water flood project in the North Maljamar Field, Lea County, New Mexico, we are in a position to furnish this water and agree to supply you based on the following terms:

1. The price charged you per barrel will be 2 3/4 cents per 42-gallon barrel. We will furnish metering equipment and will bill you monthly.
2. The water will be furnished at a rate up to the capacity of our pipeline facilities.

The rate mentioned above is the rate approved by the Public Service Commission.

Very Truly Yours

CAPROCK WATER COMPANY


H. N. Morgan, President

HNM/dt

EXHIBIT V-A

YUCCA WATER COMPANY

FORT WORTH NATIONAL BANK BUILDING

FORT WORTH 2, TEXAS

October 10, 1961

Mr. H. C. Porter
Water-Flood Associates, Inc.
301 Booker Building
Artesia, New Mexico

Dear Hal:

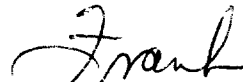
In answer to your request of September 27th concerning water for your Kennedy North Maljamar project, Yucca Water Company will be happy to supply water for this project on the basis of the attached rate schedule.

Yucca will require a take or pay contract which would commit Water-Flood Associates to purchase a minimum of 2,000 barrels per day for a period of two years. A sample contract is attached.

If you intend to purchase water from Yucca, we would appreciate receiving complete details as to the volumes and point of take on Yucca's line so that we can make plans for installing a meter station to service your project.

Very truly yours,

YUCCA WATER COMPANY


Frank Darden

FD:hd

Encl.

cc: Mr. Marion Foster

EXHIBIT VI-A

WATER FLOOD ASSOCIATES, INC.

301 BOOKER BLDG.
ARTESIA, NEW MEXICO

P. O. BOX 376

PHONE SH 6-6032

NOVEMBER 22, 1961

STATE ENGINEER
SANTA FE, NEW MEXICO

ATTENTION: MR. FRANK IRBY, CHIEF
WATER RIGHTS DIVISION

DEAR MR. IRBY:

AS I DISCUSSED WITH YOU INFORMALLY ON MY RECENT VISIT TO SANTA FE, WE PROPOSE TO INSTITUTE A WATER-FLOOD PROGRAM ON OUR LEASES IN THE NORTH MALJAMAR - ROBINSON AREA, SECTIONS 5, 6, AND 7, T17S, R32E, LEA COUNTY, NEW MEXICO. THESE LEASES ARE NOT IN A DECLARED WATER BASIN.

WE PLAN TO OBTAIN WATER FOR THE PROJECT FROM EITHER CAPROCK WATER COMPANY OR YUCCA WATER COMPANY, BOTH OF WHOM HAVE AGREED TO FURNISH THE WATER.

AS SHOWN ON THE ATTACHED PLAT, WE PROPOSE TO INJECT INTO OUR MITCHELL WELLS NOS. 2 AND 5. THESE WELLS HAVE SURFACE CASING CEMENTED INTO THE SALT SECTION, SET AND CEMENTED THROUGH THE OCHOA SECTION. PRODUCTION CASING IS SET AND CEMENTED AT ABOUT 3800 FEET. ANY WATER ZONES WHICH MAY BE PRESENT IN ANY INJECTION WELL ARE PROTECTED BY TWO STRINGS OF CASING AND TWO CEMENT JOBS. WELL DATA ARE SHOWN ON THE ATTACHED EXHIBIT.

THE CASE COMES UP FOR HEARING BEFORE THE OIL CONSERVATION COMMISSION ON NOVEMBER 29, 1961. WE RESPECTFULLY REQUEST YOUR APPROVAL OF OUR PLANS.

VERY TRULY YOURS

WATER-FLOOD ASSOCIATES, INC.


H. C. PORTER, ENGINEER

EXHIBIT VII

WATER FLOOD ASSOCIATES, INC.

301 BOOKER BLDG.
ARTESIA, NEW MEXICO

P. O. BOX 376

PHONE SH 6-6032

NOVEMBER 22, 1961

MR. JIM KNAUF
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

RE: KENNEDY PROJECT
T 17S, R 32E, LEA COUNTY,
NEW MEXICO

DEAR MR. KNAUF:

AS I DISCUSSED WITH YOU, WE PROPOSE A WATER-FLOOD PROGRAM ON OUR LEASES IN THE NORTH MALJAMAR AND ROBINSON ~~SEALS~~, LEA COUNTY, NEW MEXICO. ~~THESE~~ LEASES ARE SHOWN ON THE ATTACHED PLAT. THE FEDERAL LEASE NUMBERS HAVE BEEN CHANGED AND THE NUMBERS SHOWN ON THE PLAT ARE NOT CORRECT.

WE PROPOSE TO CONVERT OUR MITCHELL 2, SE/4 SE/4 SECTION 6 AND MITCHELL 5, SW/4 NW/4 SECTION 5 TO WATER INJECTION.

PLEASE CONSIDER THIS AS OUR APPLICATION FOR U.S.G.S. APPROVAL FOR THIS PROJECT.

VERY TRULY YOURS,

WATER FLOOD ASSOCIATES, INC.


H. C. PORTER, ENGINEER

HCP/nw

ILLEGIBLE

EXHIBIT VIII

1100500

1. $\emptyset$

 $2\frac{1}{5}$

17

24

STATE

T 16 S

CONTINENTAL
"B"

T175 R32E
LEA COUNTY, N. M.

18
6.
12

5/50
25

G. MITCHELL.

CONTINENTAL
"A"

400

3400
•
76

10

G. MITCHELL
LC.029406-A
CONTINENTAL

$$\begin{array}{r} 245 \\ \bullet \\ 35 \end{array}$$

100

160 70

2.

G. MITCHELL
L.C. 029406-A

G. MITCHELL
L.C. 029406-A

G. MITCHELL
L.C. 029406-A

L.C.029/43

G. MITCHELL
L.C. 029406-B

CONTINENTAL
"A"

WATER FLOOD
ASSOC.

CONTINENTAL
"A"

LEONARD NICHOLS

3 29
4

G. MITCHELL
L.C.029406-A

WATER-FLOOD ASSOCIATES, INC.
INITIAL POTENTIAL & CUMULATIVE RECOVERY
NORTH MALJAMAR FIELD

SCALE: 1" = 1000'

Key: I.P. (P/O)

Cum. REC. THOU. BBLs

G. MITCHELL
L.C. 029406-A

G. MITCHELL
L.C. 029406-A

CONTINENTAL
"B"

EXHIBIT No. IX & X

M. GRATH & S. SMITH
"HUMBLE"

3
5, 6 & 8

1
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ZONES 5 & 6 ARE GRAYBURG
ZONE 8 IS HOUGHTON

2
5, 6 & 8

1
5, 6 & 8

1
5, 6 & 8

STATE

STATE

CONTINENTAL
"B"

WATER FLOOD
ASSOC.

CONTINENTAL
"B"

6
5, 6 & 8

T17S, R32E

5
5, 6 To BE PERFORATED

G. MITCHELL

6
CONTINENTAL
"A"

WATER FLOOD
ASSOC.

WATER FLOOD
ASSOC.

5
CONTINENTAL
"A"

4
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1
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3
5, 6 & 8

G. MITCHELL
L.C. 029406-A
CONTINENTAL

G. MITCHELL
L.C. 029406-A

G. MITCHELL
L.C. 029406-A

G. MITCHELL
L.C. 029406-A

L.C. 029143

G. MITCHELL
L.C. 029406-B

CONTINENTAL
"A"

WATER FLOOD
ASSOC.

CONTINENTAL
"A"

LEONARD NICHOLS

2
5, 6 & 8

3
ø

G. MITCHELL
L.C. 029406-A

5 & 6
8 P.B.

WATER-FLOOD ASSOCIATES, INC.
NORTH MAJAMAR PROJECT
ZONES of COMPLETION

G. MITCHELL
L.C. 029406-A

G. MITCHELL
L.C. 029406-A

EXHIBIT XI

CONTINENTAL
"A"

3.

1. $\emptyset$

2.

1.

STATE

CONTINENTAL
"B"

STATE

CONTINENTAL
"B"

WATER FLOOD
ASSOC.

6.

Kennedy Robinson GB

← Limits of Production

6

CONTINENTAL
"A"

WATER FLOOD
ASSOC

WATER FLOOD
ASSOC.

CONTINENTAL
"A"

5

4.

3

G. MITCHELL
C. 029406 - A
ONTINENTA

CONTINENTAL

20

G. MITCHELL
L.C. 029406-A

MITCHELL
L.O. 029406-A

G. MITCHELL
L 029406-A

2 ~~2~~
L.C.029/43

CONTINENTAL
"A"

WATER FLOOD ASSOC.

CONTINENTAL
"A"

G. MITCHELL
L.C. 029406-B
LEONARD NICHOLS

WATER-FLOOD ASSOCIATES, INC.

NORTH MALJAMAR PROJECT

INPUT WELL - 

INITIAL INJECTION PATTERN

G. MITCHELL
L.C. 029406-A

G. MITCHELL
L.C. 029406-A
CONTINENTAL
"B"

8

Case 2441

Case No.

2441

Large Exhibit.

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