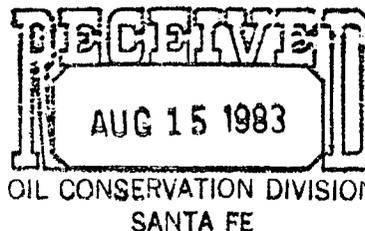


ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0149
Jerry L. Tweed
District Engineer



August 9, 1983

CERTIFIED
RETURN RECEIPT
REQUESTED

Mr. Joe D. Ramey
New Mexico Oil Conservation Division 2
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Application for Downhole Commingling
Tubb-Drinkard and Blinebry Pools
Justis Field
Stuart "A" WN Well #2
330' FNL, 2310' FWL, Sec. 14, T-24-S, R-37-E
Lea County, New Mexico

ARCO Oil and Gas Company, a Division of the Atlantic Richfield Company respectfully requests administrative approval under the provisions of Rule 303-C to downhole commingle the Justis-Tubb-Drinkard and the Justis Blinebry pools in its Stuart "A" WN Well #2C. This well is located 330' FNL, 2310' FWL, Sec. 14, T-25-S, R-37-E, Lea County, New Mexico.

This well was completed 10-12-64 as a dual completion Justis Blinebry Justis Tubb-Drinkard oil well. Both wells were placed on rod pump, and in 1969 the Tubb-Drinkard pool was plugged because it was uneconomical to produce. The well currently produces from the Blinebry, 8 BOPD plus 35 MCFPD. By commingling in the wellbore and pumping both zones without a packer, the well is expected to produce 16 BOPD and 70 MCFPD.

It is requested that the oil and gas production from the commingled well be allocated equally between pools, 50% to the Blinebry and 50% to the Tubb Drinkard. The ownership is the same in both zones and the value of the oil and gas produced will be the same for both zones, therefore no inequity will result from this commingling.

Mr. Joe D. Ramey

Page 2

August 9, 1983

The following are attached in support of this request:

1. Exhibit A - List of offset operators
2. Exhibit B - map showing location of well and offset operators
3. Exhibit C - worksheet for downhole commingling
4. Exhibit D - well data sheet
5. Exhibit E - Well diagram before commingling
6. Exhibit F - well diagram after commingling
7. Exhibit G - Blinbry production curve
8. Exhibit H - Tubb Drinkard production curve
9. Exhibit I - Form C-116 Well Test

By copy of this letter each of the offset operators listed on Exhibit A is being notified by certified mail of this request. Two stamped, addressed envelopes are enclosed with each copy, and the operators are asked to sign their approval and mail one copy in each of the envelopes. These approved copies go to Mr. Joe D. Ramey of the Oil Conservation Division and to Mr. Jerry Tweed of ARCO Oil and Gas Company, respectively.

We trust that this provides enough information on this matter. If additional information is needed, please let us know.

Yours very truly,



J. L. Tweed

JLT/BLS:dmm

Atts.

Xc: Offset Operators
ARCO Hobbs Office
NMOCD - Hobbs, New Mexico

APPROVED:

Company _____

By _____

Title _____

Date _____

OFFSET OPERATORS
STUART "A" WN NO. 2C

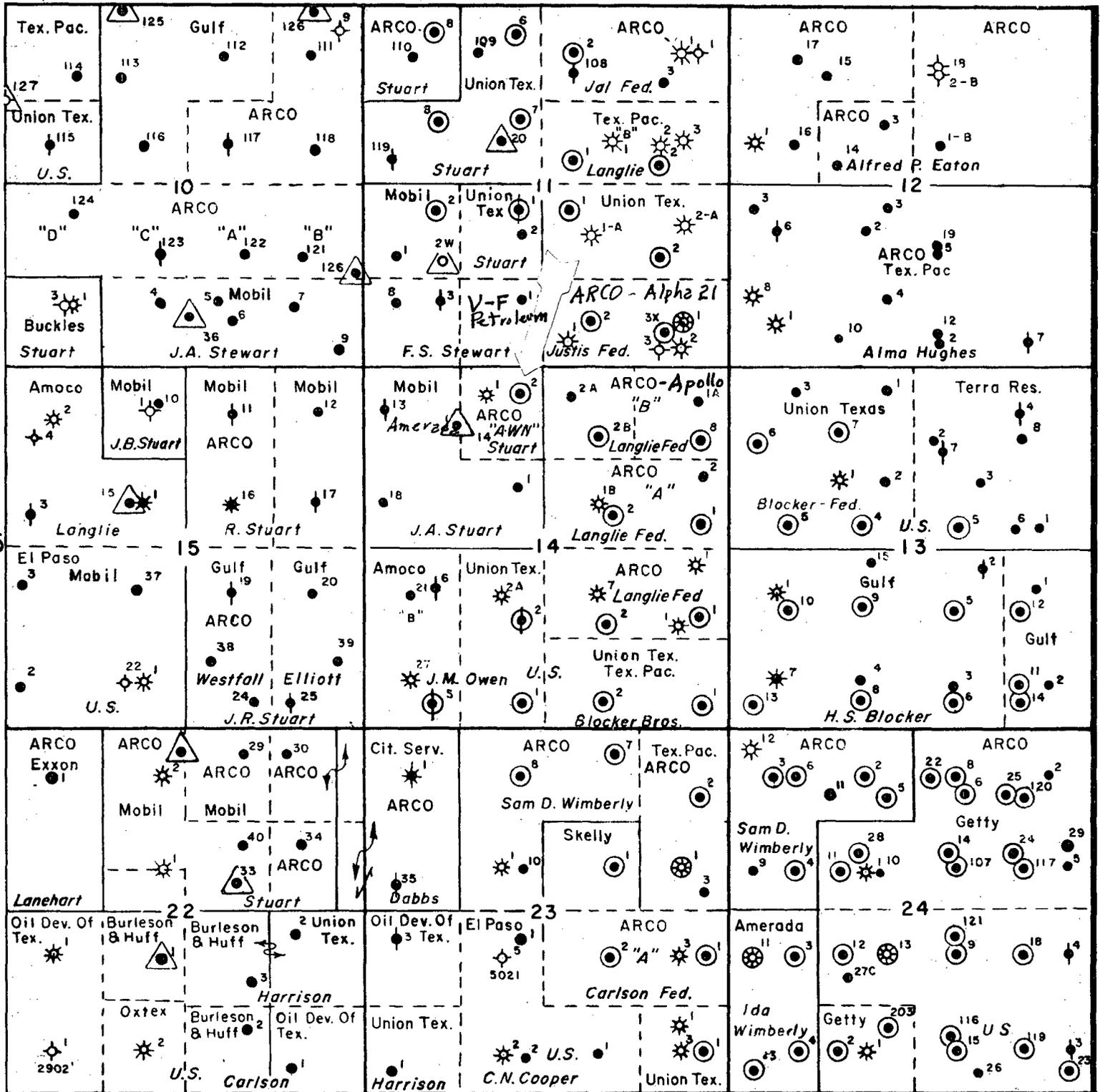
Amerada Hess Corporation
2207 Industrial
Midland, Texas 79701

Apollo Oil
P. O. Box 1737
Hobbs, New Mexico 88240

Mobil Producing Texas and New Mexico
P. O. Box 633
Midland, Texas 79702

V-F Petroleum, Inc.
One Marienfeld Place, Suite 580
Midland, Texas 79701

Alpha 21
Room 2100, First National Bank Bldg.
Midland, Texas 79701



STUART "A" WN NO. 2
 JUSTICE FIELD
 Lea County, New Mexico

Exhibit B

Scale: 1" = 2000'

By: RICK MORTON	Drawn By: R.C.T.	Date: 6/16/83
Date: 6/16/83	Revised By:	Date:
Dept: WEST ENGR.	Dwg No:	

Information for Downhole Commingling
EXHIBIT C

(a) Operator: ARCO Oil and Gas Company, Division of Atlantic Richfield Co.
P. O. Box 1610
Midland, Texas 79702

(b) Lease, Well, and Location:

Stuart "A" WN No. 2
330' FNL & 2310' FWL
Section 14, T-25-S, R-37-E

(c) Commingled Pools: Tubb-Drinkard and Blinebry
Division Order Authorizing Dual Completion: MC-1553

(d) 24-hour Productivity Test:

(See Attached C-116)

(e) Decline Curves and Completion Resume:

(See Attachments)

(f) Bottom Hole Pressures:

Most recent bottom hole pressure survey of a nearby well was performed 7-6-79. The bottom hole pressure of the Blinebry was 613 psig, and the bottom hole pressure of the Tubb-Drinkard was 625 psig.

(g) Fluid Incompatibility:

Order No. PC-238 allowed surface commingling of the two zones producing from the subject well. No fluid incompatibility was observed. This order was cancelled when the Tubb-Drinkard was shut in. Nearby wells operated by ARCO are downhole commingling the zones with no fluid incompatibility.

(h) Value of Commingled Fluids:

The Tubb-Drinkard and Blinebry should both be classified under the same pricing category. The Tubb-Drinkard has been shut in since 1969. By opening the zone to production, and downhole commingling with the Blinebry, eight additional barrels of oil a day should be recovered, thereby increasing the total value of the produced fluid.

(i) All offset operators have been notified by registered mail of the proposed downhole commingling.

Well Data Sheet
EXHIBIT D

Field: Justis County: Lea
Company: ARCO Oil and Gas Location: 330' FNL & 2310' FWL
Lease: Stuart "A" WN of Sec. 14, T25S, R37E
Well: No. 2

TD: 6250 PBD: 6088 New PBD: 5840
Casing: 9-5/8 @ 1004
7 @ 6250

Completion Date: 10-12-64
Completion Interval: Blinebry 5377-5618'
Drinkard 5958-6079'

Initial Potential: Blinebry 201 BOPD
Drinkard 189 BOPD + 3 BOPD

History:

8/23/64 Spudded
9/28/64 Perf Drinkard 6098-6171. Acidize w/1500 gal. Frac w/15,000 gal.
and 10,000# sand.
10/5/64 Perf Drinkard 5958-6079. Set BP @ 6088. Ac w/1500 gal. Frac
15,000 gal. and 15,000# sand.
10/12/64 Perf Blinebry 5377-5618. Ac w/1500 gal. Frac w/20,000 gal.
+ 26,000# sand.
12/7/64 Tubb-Drinkard put on pump.
3/11/69 Set D.R. plug in Model "D" packer @ 5850 w/2 sx cement on top.
to PBTD 5840'. Perf Blinebry 5165-5337. Ac w/2,000 gal. Frac
4/13/69 w/30,000 gal. and 30,000# sand. Put on pump.

General Purpose Worksheet

Subject	STUART "A" WN #2	Page No.	Of
File	WELL SKETCH	By	RPL
		Date	6/29/83

Well Condition
Before Commingling
Exhibit E

9 5/8" 32.3 # 36 #, H-40 & J-55 @ 1004'

2 3/8" PRODUCTION TBG

PERFS - 5165', 72', 91', 97', 5209', 22', 26', 45', 48', 52', 58', 61', 90', 5313', 37' (15 HOLES)

PERFS - 5377', 84', 5412', 67', 85', 5529', 89', 5600', 11', 18' - (10 HOLES)

5840' PBD

MODEL "D" PKR w/ DR PLUG @ 5850'

PERFS - 5958', 60', 6011', 24', 51', 54', 71', 74', 79' - (9 HOLES)

CIBP @ 6088'

PERFS - 6098', 6102', 06', 13', 34', 36', 54', 56', 68', 71' - (10 HOLES)
(NON-PRODUCTIVE)

7" 23 # N-80 @ 6250'

General Purpose Worksheet

Subject	STUART "A" WN #2	Page No.	01
File	WELL SKETCH	By	RPL
		Date	6/29/83

Well Condition
After Commingling
Exhibit F

9 5/8" 32.3 # 36 #, H-40 & J-55 @ 1004'

2 3/8" PRODUCTION TBG

PERFS - 5165', 72', 91', 97', 5209', 22', 26', 45', 48', 52', 58', 61', 90', 5313', 37' (15 HOLES)

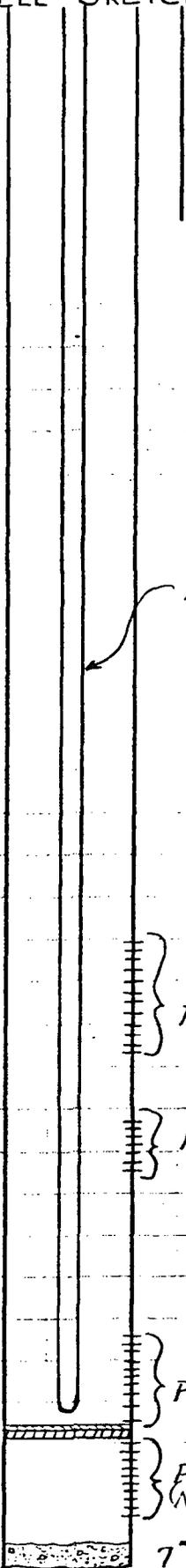
PERFS - 5377', 84', 5412', 67', 85', 5529', 89', 5600', 11', 18' - (10 HOLES)

PERFS - 5958', 60', 6011', 24', 51', 54', 71', 74', 79' - (9 HOLES)

PERFS - 6098', 6102', 06', 13', 34', 36', 54', 56', 68', 71' - (10 HOLES)
(NON-PRODUCTIVE)

7" 23 # N-80 @ 6250'

CIBP @
6088'



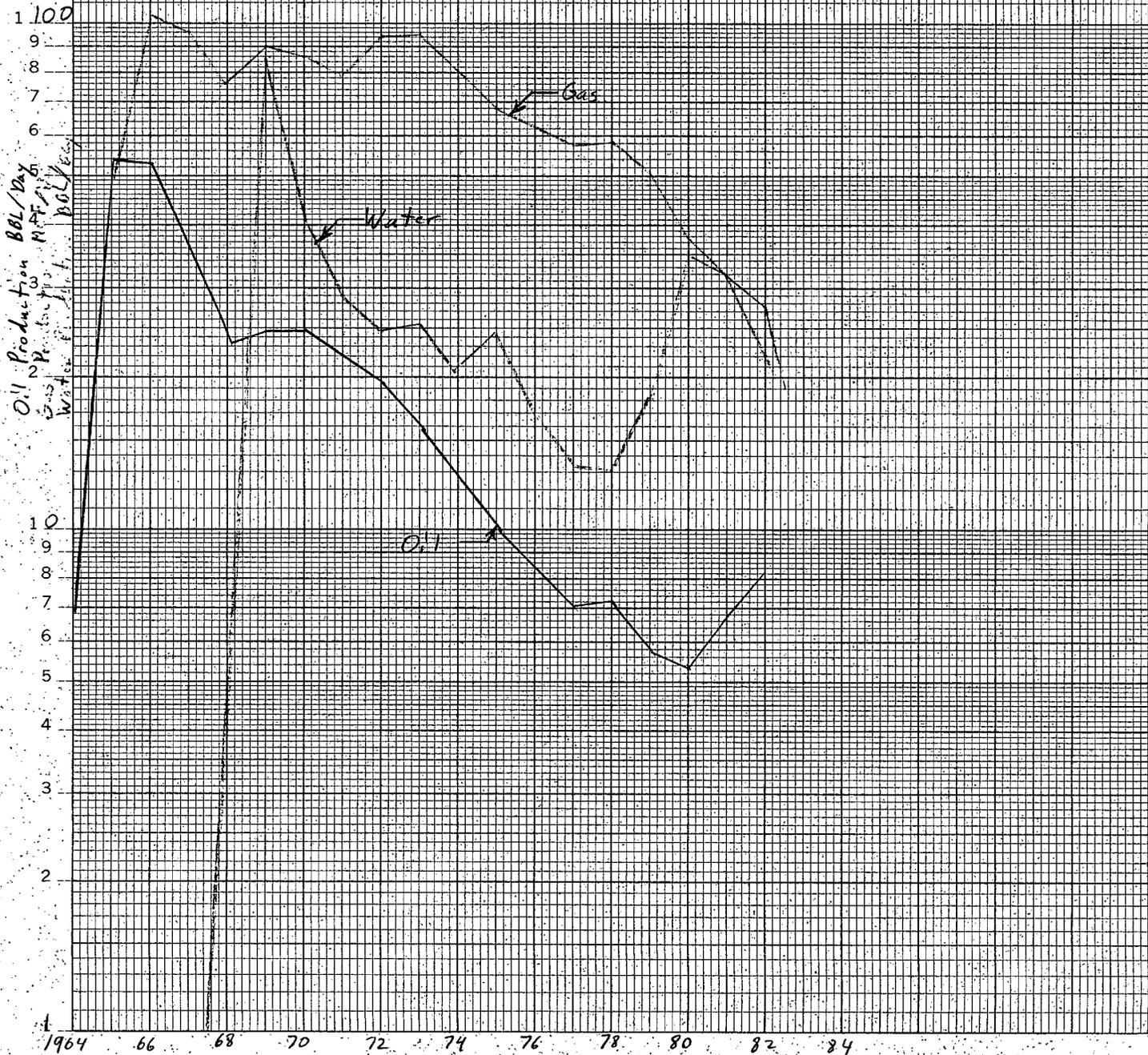
60741

46 5813

KE SEMI-LOGARITHMIC 3 CYCLES x 140 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

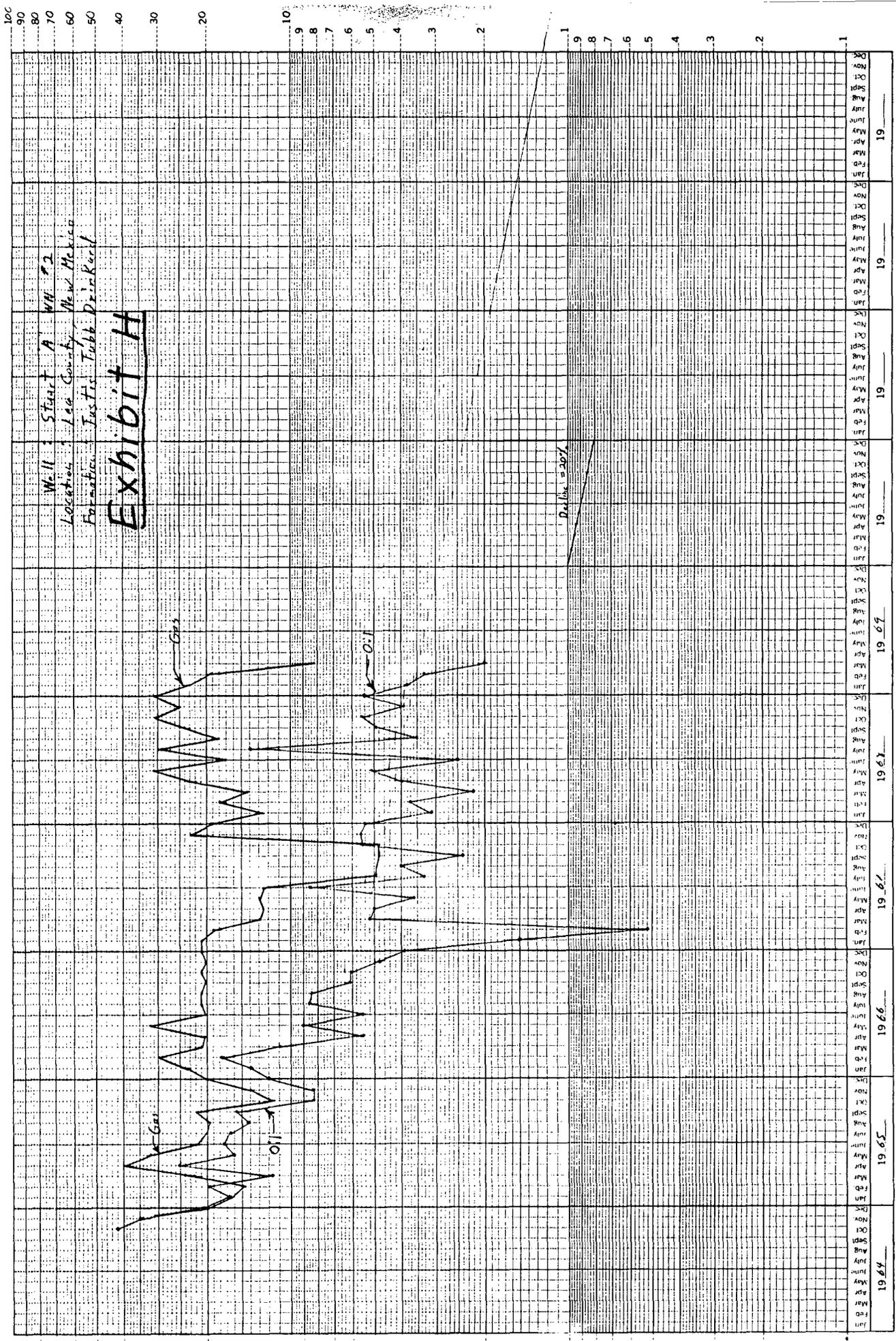
Oil Production BBL/Day
Gas Production MCF/Day
Water Production BO/Day

Well: Stuart A' WN #2
Location: Lea County, New Mexico
Formation: Justin Blinaby
Exhibit G



Yr

Oil Production (BBL/DAY)
 Gas Production (MCF/DAY)



Well: **Stuart A** WH #2
 Location: **Lea County, New Mexico**
 Formation: **East Tubb Drive Road**

Exhibit H

100
90
80
70
60
50
40
30
20
10
9
8
7
6
5
4
3
2
1

1964
1965
1966
1967
1968

Dec, Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec

GAS-OIL RATIO TESTS

Operator	County		TYPE OF TEST ~ (X)	SCHEDULED	Completion	Special	PROC. DURING TEST		GAS - OIL RATIO CU:FT/BBL					
	Division of Atlantic Richfield Co.	Pool					WATER BBL'S.	OIL BBL'S.		GAS M.C.F.				
Address	Justis Blinebry		DATE OF TEST	CHOKESIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	WATER BBL'S.	OIL BBL'S.	GAS M.C.F.	GAS - OIL RATIO CU:FT/BBL			
P.O. Box 1710, Hobbs, NM 88240	U	S										T	R	
Stuart "A" WN	2	C	14	25	37	7-18-83	P	10	24	26	35.3	8	35	4,375
NOTE: This is a current (within 30 days) 24 hr productivity test for proposed application to down hole commingle with the Temp Aband. Justis Tubb Drinkard zone.														

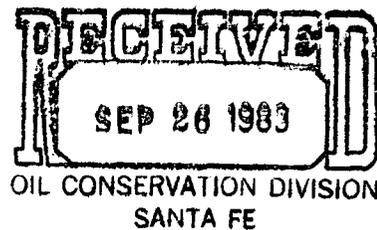
I hereby certify that the above information is true and complete to the best of my knowledge and belief.

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 Division.
 Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature 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 Division in accordance with Rule 33 and appropriate pool rules.

[Signature]
 (Signature)
 Engrg. Tech. Spec.
 8/4/83
 (Title)

Exhibit I

ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0149
Jerry L. Tweed
District Engineer



August 9, 1983

CERTIFIED
RETURN RECEIPT
REQUESTED

Mr. Joe D. Ramey
New Mexico Oil Conservation Division 2
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Application for Downhole Commingling
Tubb-Drinkard and Blinebry Pools
Justis Field
Stuart "A" WN Well #2
330' FNL, 2310' FWL, Sec. 14, T-24-S, R-37-E
Lea County, New Mexico

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8. Exhibit H - Tubb Drinkard production curve
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Yours very truly,



J. L. Tweed

JLT/BLS:dmm

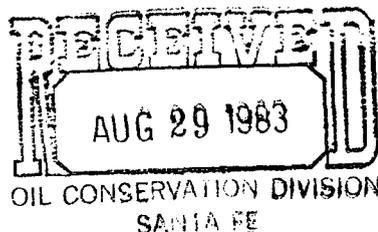
Atts.

Xc: Offset Operators
ARCO Hobbs Office
NMOCD - Hobbs, New Mexico

APPROVED:

Company V-F Petroleum Inc
By C. Engstrom
Title Opas. Mgr.
Date 9/22/83

ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0149
Jerry L. Tweed
District Engineer



August 9, 1983

CERTIFIED
RETURN RECEIPT
REQUESTED

Mr. Joe D. Ramey
New Mexico Oil Conservation Division 2
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Application for Downhole Commingling
Tubb-Drinkard and Blinebry Pools
Justis Field
Stuart "A" WN Well #2
330' FNL, 2310' FWL, Sec. 14, T-24-S, R-37-E
Lea County, New Mexico

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We trust that this provides enough information on this matter. If additional information is needed, please let us know.

Yours very truly,

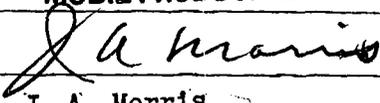


J. L. Tweed

JLT/BLS:dmm
Atts.

Xc: Offset Operators
ARCO Hobbs Office
NMOCD - Hobbs, New Mexico

APPROVED:

Company MOBIL PRODUCING TX & NM INC.
By 
Title J. A. Morris
Regulatory Engineering Supervisor
Date 8/23/83

DOYLE HARTMAN

Oil Operator

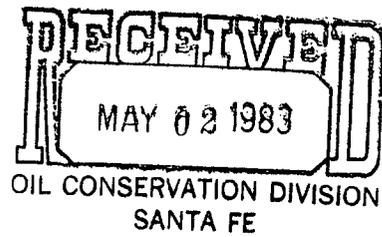
500 N. MAIN

P. O. BOX 10426

MIDLAND, TEXAS 79702

(915) 684-4011

April 28, 1983



ARCO Oil and Gas Company
Post Office Box 1610
Midland, Texas 79702

Attention: Mr. Jerry L. Tweed

Re: Application for Downhole
Commingling of the Jalmat
and Langlie Mattix Pools
Duthie Andrews WN No. 4
B-Section 19, T23S, T37E
Lea County, New Mexico

Gentlemen:

Please find enclosed our executed waiver to your application to com-
mingle the Jalmat and Langlie Mattix Pool in your Duthie Andrews WN No.
4 well.

By copy of this letter, we are forwarding our waiver to Mr. Joe Ramey of
the New Mexico Oil Conservation Division.

Very truly yours,

DOYLE HARTMAN

A handwritten signature in cursive script that reads "Michelle Hembree".

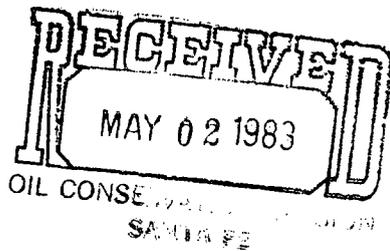
Michelle Hembree
Administrative Assistant

/mh

Enclosure

cc: ✓ Mr. Joe D. Ramey
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0149
Jerry L. Tweed
District Engineer



March 30, 1983

Doyle Hartman
500 N. Main
Midland, Texas 79702

Dear Sirs:

Application for Downhole Commingling of the Jalmat
and Langlie Mattix Pools
Duthie Andrews WN No. 4
Section 19B, T23S, R37E
Lea County, New Mexico

ARCO Oil and Gas Company respectfully requests your waiver
of the attached application to the New Mexico Oil Conser-
vation Commission. We applied for downhole commingling of
the Jalmat and Langlie Mattix pools of the Duthie Andrews
WN No. 4.

If you have no objections to this application, please
indicate your approval of our intentions by signing both
copies of this request. Kindly return one copy to ARCO and
forward the other to Mr. Joe Ramey in the addressed envelopes
enclosed.

We appreciate your prompt reply to this request.

Yours very truly,

J. L. Tweed

JLT/PR:dmm
Atts.

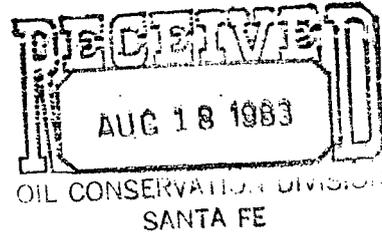
Agreed to this 28th day of April, 1983.

Signed Doyle Hartman
Title Operator - Part Owner



APR 18 1983

OIL CONSERVATION DIVISION
DISTRICT I



OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

DATE August 15, 1983

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

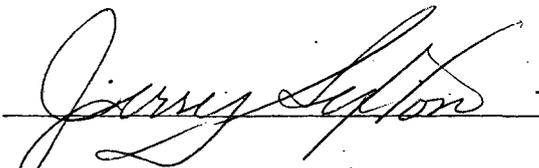
I have examined the application for the:

ARCO Oil & Gas Co.	Stuart A WN	#2-C	14-25-37
Operator	Lease and Well No.		Unit, S - T - R

and my recommendations are as follows:

O.K.----J.S.

Yours very truly,


JSL