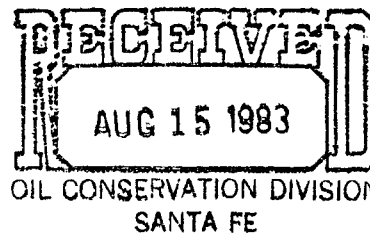


ARCO Oil and Gas Company  
Permian District  
Post Office Box 1610  
Midland, Texas 79702  
Telephone 915 684 0149  
Jerry L. Tweed  
District Engineer



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

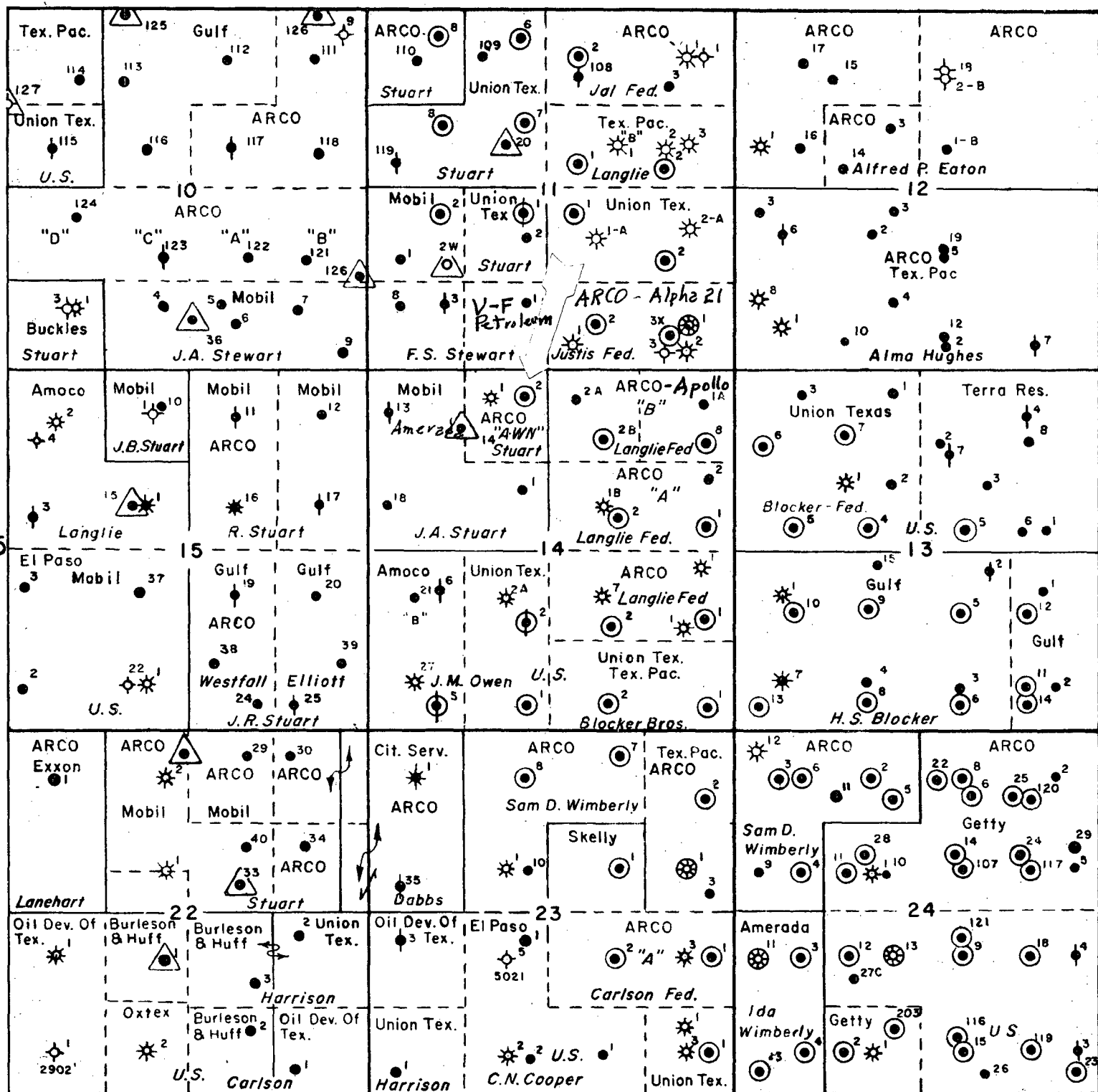
Amerada Hess Corporation  
2207 Industrial  
Midland, Texas 79701

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



**ARCO Oil and Gas Company** ♦  
 Division of Atlantic Richfield Company  
 Permian District Midland, Texas

**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  
Company: ARCO Oil and Gas  
Lease: Stuart "A" WN  
Well: No. 2

County: Lea  
Location: 330' FNL & 2310' FWL  
of Sec. 14, T25S, R37E

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)

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(NON-PRODUCTIVE)

7" 23 # N-80 @ 6250'

CIBP @  
6088'



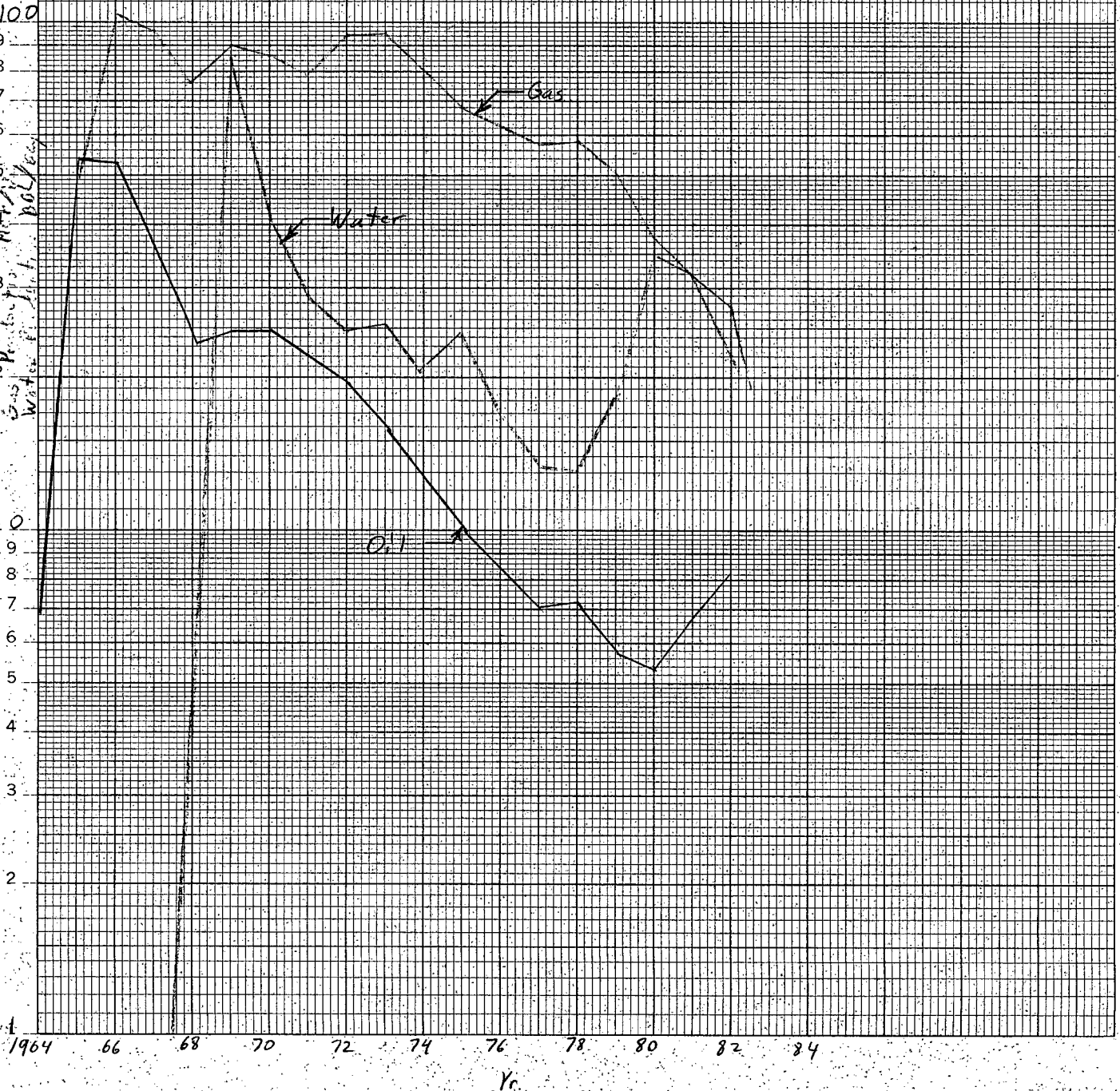
46 5813

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

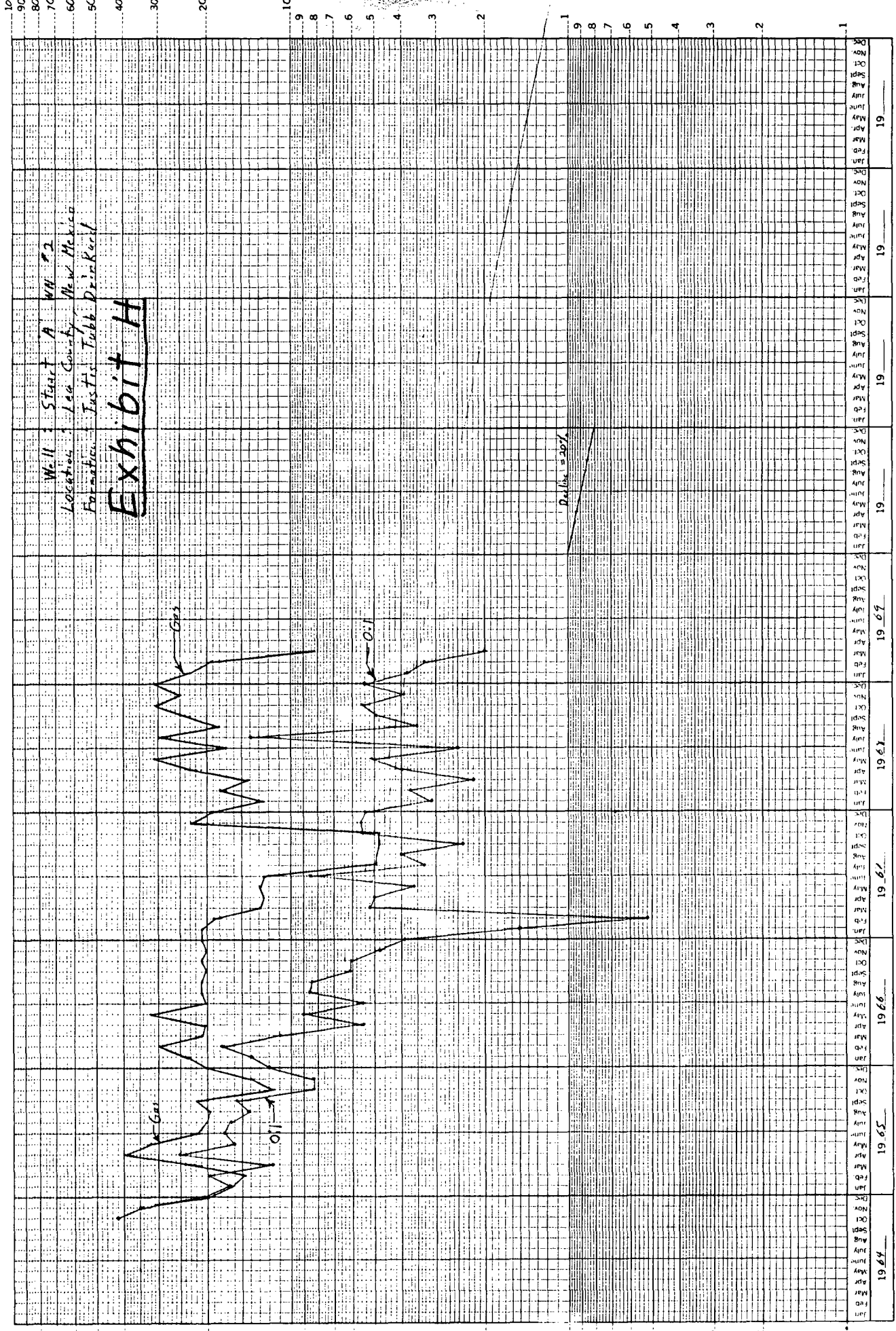
Well : Stuart "A" WN #2  
Location : Lea County, New Mexico  
Formation : Justis Blinney

# Exhibit G

Oil Production BBL/Day  
NP  
Water Production BBL/Day  
NP



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



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

Deslin = 20%

## GAS-OIL RATIO TESTS

Operator		ARCO Oil and Gas Company		County		Lea								
Division of Atlantic Richfield Co.		Justis Blinebry												
Address		P.O. Box 1710, Hobbs, NM 88240		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>								
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU:FT/BSL	
		U	S	T						R	WATER BLS.	GRAV. OIL		OIL BLS.
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.														

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 331 and appropriate pool rules.

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

Exhibit I

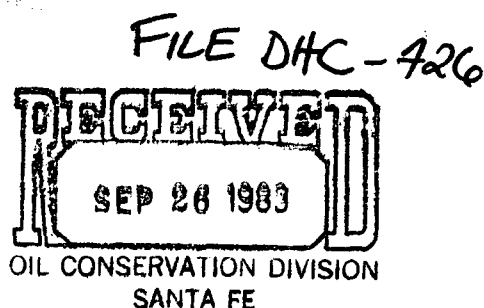
  
(Signature)

Engrg. Tech. Spec.

(Title)

8/4/83

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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8. Exhibit H - Tubb Drinkard production curve
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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*

J. L. Tweed

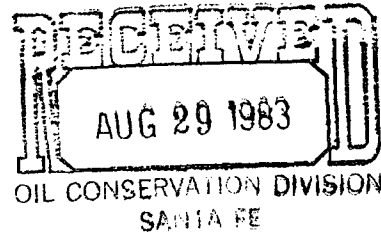
JLT/BLS:dmm  
Atts.

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

APPROVED:

Company V-F Petroleum Inc  
By C. Engstrom  
Title Ops. 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  
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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,

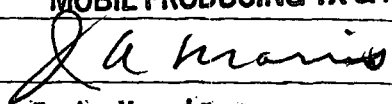


J. L. Tweed

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

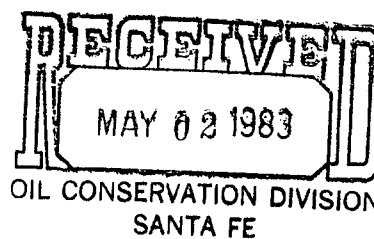
500 N. MAIN

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 commingle 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

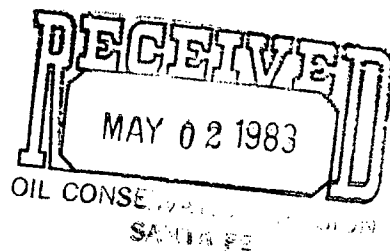
/mh

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.

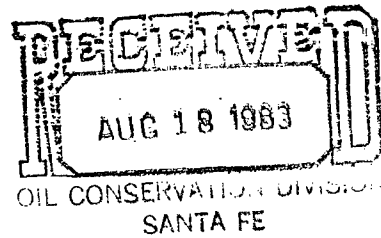
Signed Doyle Hartman

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:

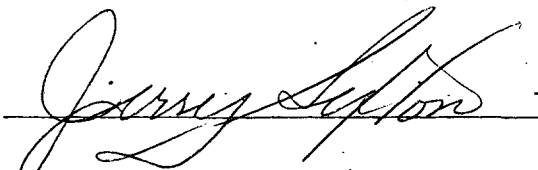
I have examined the application for the:

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,

  
Jmc