

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



December 15, 1986

Mr. Richard L. Stamets
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Case 9084

Application for Downhole Commingling of the
Justis Blinebry and Justis Montoya Pools
State Y Well No. 3
330' FNL & 1650' FEL
Section 25, T-25-S, R-37-E
Lea County, New Mexico

note - The well needs to be downhole

and
~~State Y Well No. 7
430' FNL & 760' FEL
Section 25, T-25S, R-37E
Lea County, New Mexico~~

Dear Mr. Stamets:

ARCO Oil and Gas Company respectfully requests administrative approval under the provisions of Rule 303-C to downhole commingle the Justis Blinebry and Justis Montoya pools in the State Y well No. 3 and State Y well No. 7. Both wells are located in Section 25, T-25-S, R-37-E of Lea County, New Mexico.

Both the State Y No. 3 and State Y No. 7 are located in the proposed Justis Blinebry-Tubb/Drinkard Unit waterflood area. Commingling the Blinebry with the Montoya should return both these wells to economic production. Additionally, commingling the wells will allow ARCO to retain them for possible use in the proposed waterflood.

Attached is the information requested by Rule 303-C for downhole commingling for both the State Y No. 3 and the State Y No. 7. The productivity tests, Forms C-115, and decline curves contain the most recent available data for these wells. The bottom-hole pressures listed for the two wells are based on 72 or 96 hour buildups. The Montoya in both wells is shut-in due to mechanical problems. As part of the commingling procedure, we plan to acidize the Blinebry in both wells and the Montoya in well #7. Final production allocation can be based on the results of production tests before the zones are commingled.

Mr. Richard L. Stamets

December 15, 1986

Page Two

A water analysis for a similar, nearby producer, the State Y 6, shows that the fluid characteristics of each zone are compatible for the two wells in questions. Also, both zones are commingled at the battery already.

Based on the information we have gathered and submitted, we believe that this request to commingle the Justis Blinbry and Justis Montoya is justified. Thank you for your time and consideration. If you have questions, please call me at 915-688-5355.

Very truly yours,

Richard S. Prentice

R. S. Prentice
Operations/Analytical Senior Engineer

RSP:tis
Attachments

cc: S. D. Smith - Hobbs

State Y No. 3
Information for Downhole Commingling

a. Operator: ARCO Oil & Gas Company
Post Office Box 1610
Midland, Texas 79702

b. Lease, Well, Location, and Pool:

State Y No. 3
Sec. 25 T-25-S R-37-E
330' FNL & 1650' FEL
Lea County, New Mexico
Justis Blinebry and Justis Montoya Pools

c. Acreage Dedication (40 acres) - Attached

d. 24-Hour Productivity Test - Latest Form C-116 & Form C-115 Attached

e. Decline Curves - Attached

f. Bottom-Hole Pressures - Attached

Blinebry: 254 PSIA
Montoya: 475 PSIA

g. Fluid Compatibility - Martin Water Laboratories Analysis Attached

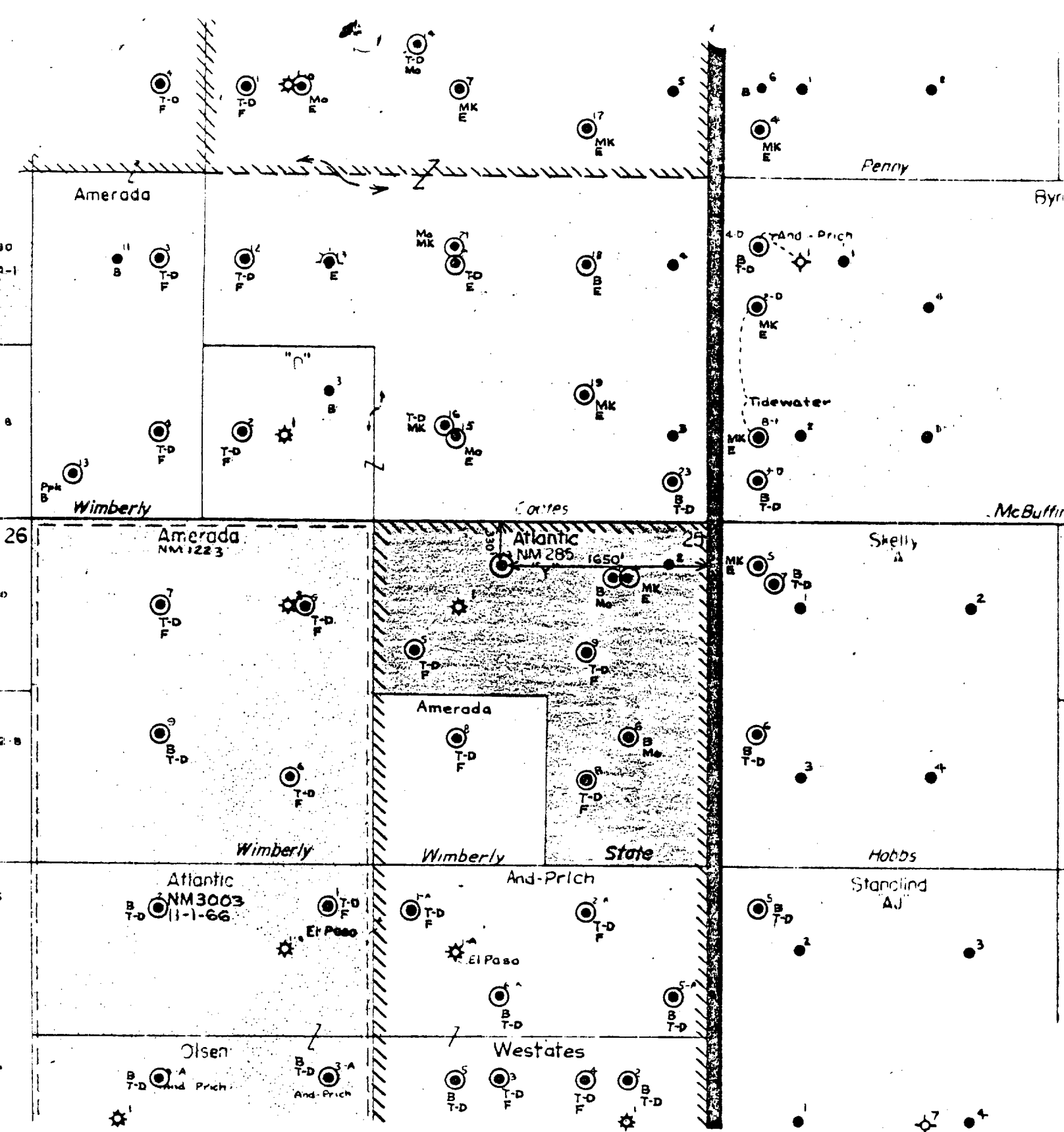
h. Commingling Computations - Attached

i. Allocation of Production - based on last production ratios:

	<u>Oil</u>	<u>Gas</u>	<u>Water</u>
Blinebry	11%	78%	1%
Montoya	89%	22%	99%

j. Notification of Offset Operators (Includes Offset Ownership) - Attached

All offset operators have been notified by certified mail of this downhole commingling application.



THE ATLANTIC REFINING COMPANY
NEW MEXICO DISTRICT
JUSTIS MONTOYA AND BLINERY POOLS

Scale: 1" = 1000'
To accompany application for
Oil/Oil Dual -
Atlantic - State "Y" No. 3 Well

GAS-OIL RATIO TESTS

Operator		Pool		County		Lea								
ARCO Oil and Gas Company		Justis Blinberry		SANTA FE		Lea								
Div of Atlantic Richfield Company				TYPE OF TEST - (X)		Completion ☐ Special ☐								
P. O. Box 1710, Hobbs, New Mexico 88240				Scheduled ☒										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	PROD. DURING TEST			GAS - OIL RATIO CU. FT./B		
		U	S	T					A	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
Carlson Federal	1	K	25	25	37	2/14/86	P	8	24	6	36.2	9	245	27,222
"	2	L	25	25	37	2/15/86	P	6	24	10	36.2	7	66	9,428
Carlson "A" Federal	1	I	23	25	37	2/15/86	P	2	24	3	36.2	2	22	11,000
"	2	J	23	25	37	2/07/86	P	3	24	11	36.4	4	17	4,250
Justis Federal	2	O	11	25	37	2/18/86	P	3	24	4	36.2	3	52	17,333
"	3Y	P	11	25	37	2/17/86	P	5	24	5	36.2	5	38	7,600
Langlie Federal	1	I	14	25	37	2/04/86	P	8	24	3	36.4	5	120	24,000
"	2	J	14	25	37	2/12/86	P	11	24	4	36.2	9	68	7,555
Langlie "A" Federal	1	H	14	25	37	2/06/86	P	6	24	3	36.2	4	75	18,750
"	2	G	14	25	37	2/20/86	P	10	24	6	36.2	8	127	15,875
Langlie "B" Federal	1	A	14	25	37	2/21/86	P	5	24	5	36.2	4	40	10,000
"	2	B	14	25	37	2/20/86	P	4	24	4	36.2	4	32	8,000
State Y	3	B	14	25	37	2/17/86	P	2	24	1	36.2	2	66	83,000
"	7	A	14	25	37	2/06/86	P	8	24	1	36.2	3	99	83,000

No well will be assigned an allowable greater than the amount of oil produced on the official test.

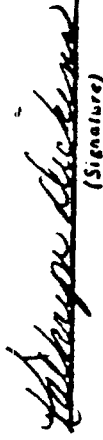
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized 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 301 and appropriate pool rules.

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



Services Supv.

(Title)

5/22/86

GAS-OIL RATIO TESTS

LEASE NAME		WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BB	
			U	S	T	R						WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.		
State "Y"	3		B	25	25	37		2/18/86	P	19	24	118	36.2	16	19	1,187	
"	*	7	A	25	25	37		2/20/86	P	21	24	13	36.2	7	4	571	
"	*	9	A	25	25	37		2/20/86	P	21	24	13	36.2	12	12	1,000	
	*	Share same 40 acre proration unit															

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.

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


(Signature)

Services Supv.

(Title)

POOL NAME (Underline) *Lease Name WELL NO UNIT SEC TWP RANG	STATUS CODE F.....FLOWING P.....PUMPING G.....GAS LIFT S.....SHOT H T.....TEMP ABANDONED I.....INJECTION D.....DISCONTINUED	INJECTION VOLUME PRESS.	TOTAL LIQUIDS PRODUCED		GAS PRODUCED (MCF)	DAYS PROD.	DISPOSITION OF GAS		DISPOSITION OF OIL				I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE
			MONTHLY OIL ALLOWABLE	ACTUAL BARRELS OF WATER PRODUCED			BARRELS	SOLD	TRANS FOR-TEM	C O D E	OIL ON HAND AT BEG. OF MONTH	BARRELS TO TRANS-PORTER	
*LEASE NAME - Include State Lease Number or Federal Lease Number													
Commingled Batteries Same Lease Name Cont.													
(Commingled with Justis Fusselman, Justis Montoya, Justis Tubb Drinkard)													
Justis Blinebry													
State Y B-11478													
3 UT-B 25 25S 37#	F		62	22	0	749	31						
6 UT H 25 25S 37E	F		-	-	-	1336	31						
7 UT-A 25 25S 37E	F		93	107	93	2855	31						
Total			155	129	93	4940			4852	EPG	88	U	
Justis Fusselman													
State Y B-11478													
5 LT-B 25 25S 37E	P		744	467	3720	3869	31						
8 LT-H 25S 37E	T		-	-	-								
Total			744	467	3720	3869			3781	EPG	88	U	
"OTHER" GAS DISPOSITION CODE X.....USED OFF LEASE D.....USED FOR DRILLING G.....GAS LIFT L.....LOST (MCF ESTIMATED) E.....EXPLANATION ATTACHED R.....PRESSURE OR V.....VENTED U.....USED ON LEASE													
"OTHER" OIL DISPOSITION CODE C.....CIRCULATING OIL L.....LOST S.....SEDIMENTATION (BS&W) E.....EXPLANATION ATTACHED													

(Name)

(Position)

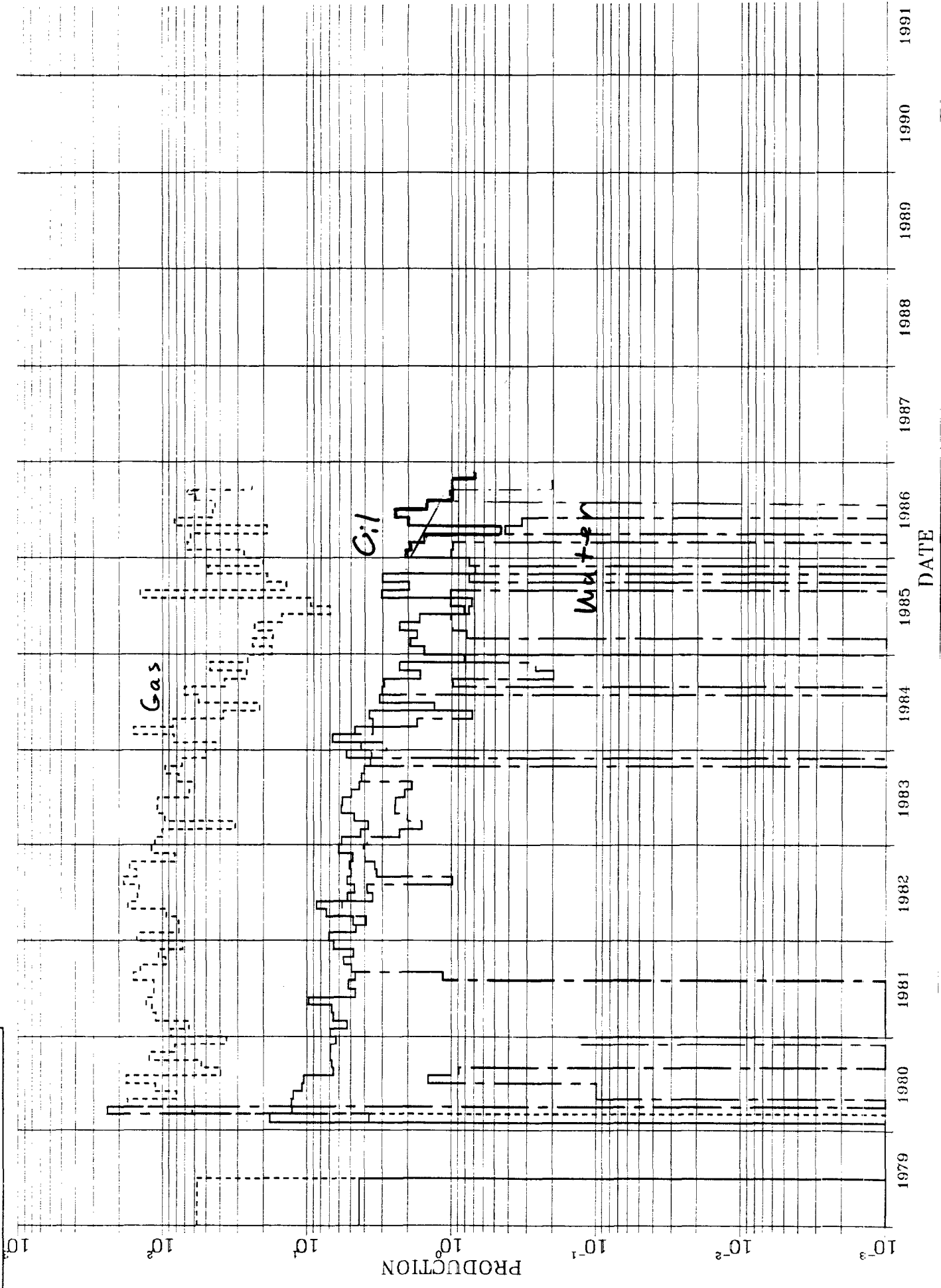
(Signature)

FIELD: JUSTIS BLANNEY

LEASE: STATE Y WELL# 000003

OPERATOR: ARCO OIL & GAS CO

LEGEND
OIL PRODUCTION, STBO/D
GAS PRODUCTION, MCF/D
WATER PRODUCTION, STBW/D

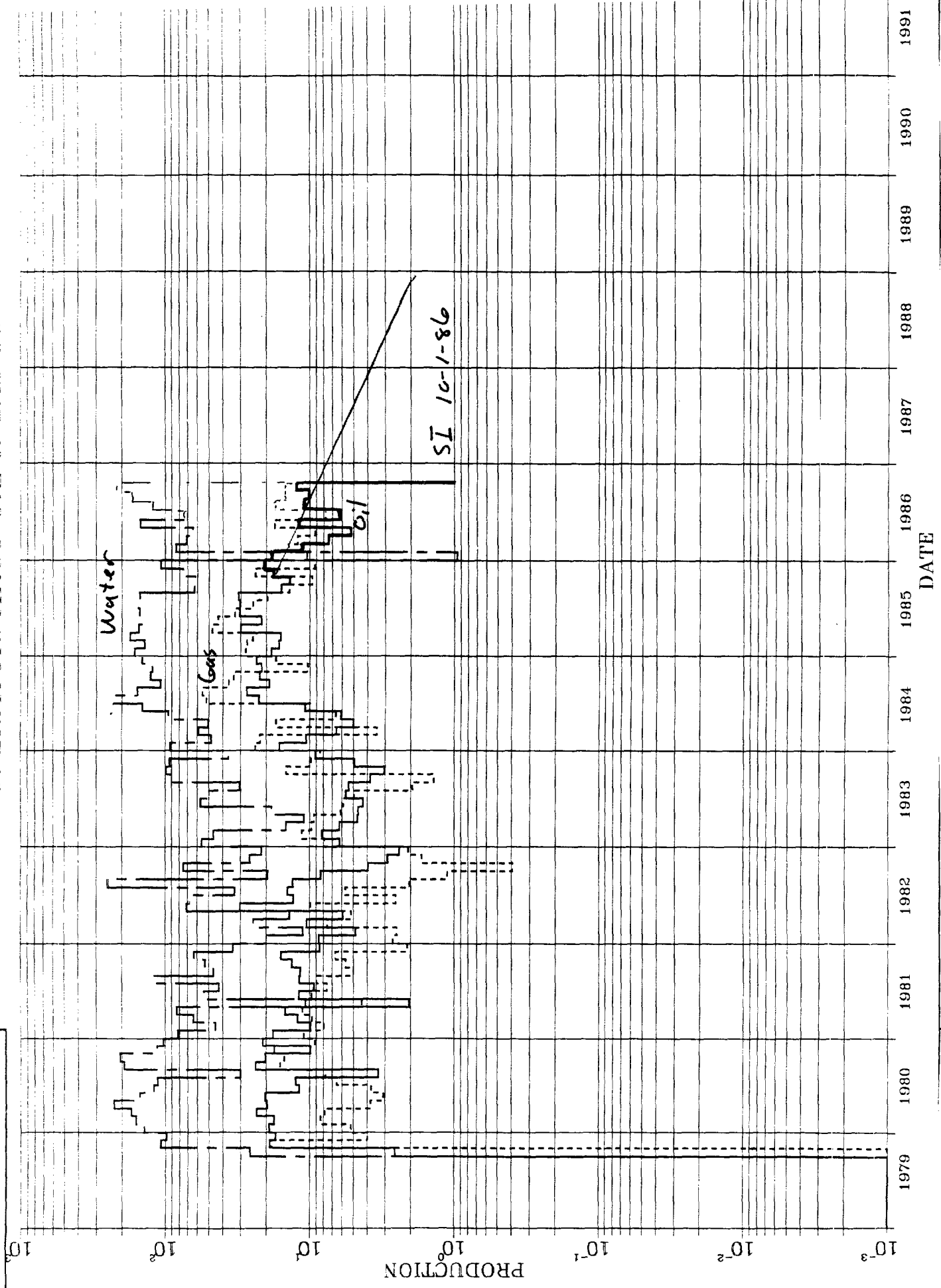


MO
FIELD: JUSTIS MONTOYA

LEASE: STATE Y WELL.# 000003

OPERATOR: ARCO OIL & GAS CO

.....
OIL PRODUCTION, STBO/D
--- GAS PRODUCTION, MCF/D
--- WATER PRODUCTION, STBW/D





Date: November 19, 1986

Subject: State Y No's. 3 and 9
Bottomhole Pressure Estimate

From/Location: L. A. Parnell - 121 HOO

Telephone: 392-1253

To/Location: Mr. R. S. Prentice - 117 MID

Static pressure tests were conducted on the subject wells to determine the reservoir pressure in the Blinebry and Montoya zones. Results of the tests are as follows:

WELL	START DATE	RESERVOIR	TEST LENGTH (hrs.)	BHP (psia)
#3	11/7/86	Blinebry	72	254
#9	11/14/86	Montoya	96	475

Please inform me if further information is required.

L. A. Parnell
Production/Facilities Engineer

By Waylan C. Martin, M.A.

State Y 3
Commingling Computation

Perforations:

Blinebry 5118-5530'
Montoya 6821-83'

Rule 303-C Production Limitations (Bottom Perf-Lowermost Pool 6000-6999'):

40 BOPD
80 BOPD

Latest Production Data (Based on Form C-116 Submitted 5-22-86):

	<u>Blinebry</u>	<u>% of Total</u>	<u>Montoya</u>	<u>% of Total</u>
BOPD	2	11	16	89
MCFD	66	78	19	22
BWPD	1	1	118	99

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



CERTIFIED
RETURN RECEIPT
REQUESTED

November 6, 1986

OFFSET OPERATORS
STATE Y LEASE

Gentlemen:

Notification of Intent to Downhole Commingle
the Justis Blinebry and Justis Montoya Pools
State Y No. 3
330' FNL & 1650' FEL
Section 25, T-25-S, R-37-E
Lea County, New Mexico

In accordance with New Mexico Oil Conservation Division regulations, you are hereby notified of ARCO Oil and Gas Company's application to downhole commingle production from the Justis Blinebry and Justis Montoya pools in the State Y No. 3 well.

Yours very truly,

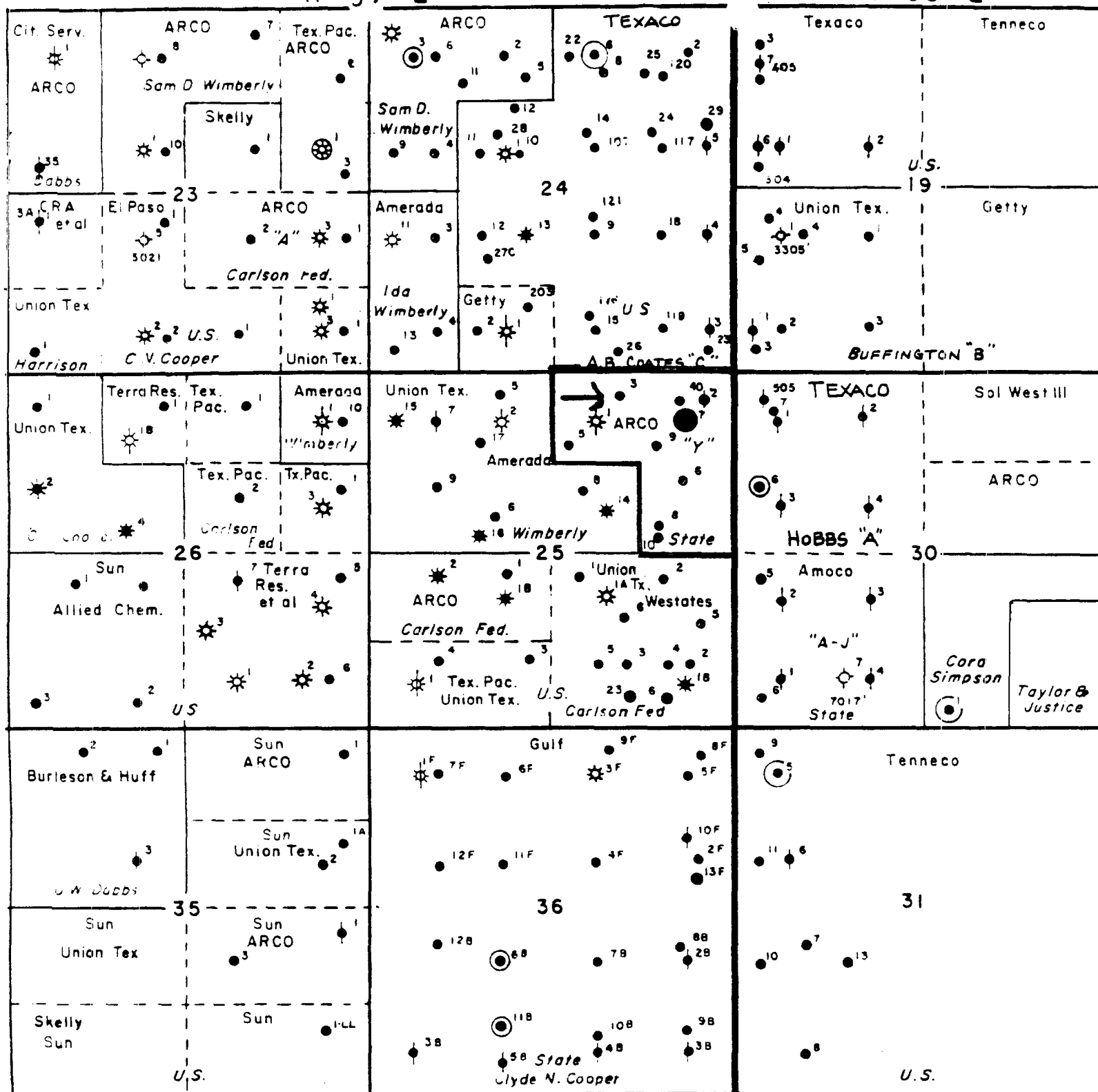
Richard S. Prentice

R. S. Prentice
Senior Engineer

RSP:tis

R 37 E

R 38 E



ARCO Oil and Gas Company 
Central District Midland, Texas

ST. Y No. 3
LEA COUNTY, NEW MEXICO

SCALE 1" = 2000'

By: Terry Parnell	Drawn By:  Date: 5-85
Date: 4-86	Revised By: E. Davis Date: 4-86
Dep: WEST AREA ENGR.	Org: No

OFFSET OPERATORS

STATE Y LEASE

Amerada Hess Corporation
2207 Industrial
Midland, TX 79701

Amoco Producing & Exploration Co.
4044 Penbrook
Odessa, TX 79762

Texaco Producing, Inc.
P.O. Box 3109
Midland, TX 79702

Union Texas Petroleum Corporation
Box 2120 One Riverway
Houston, TX 77252

State Y No. 7
Information for Downhole Commingling

- a. Operator: ARCO Oil and Gas Company
Post Office Box 1610
Midland, Texas 79702
- b. Lease, Well, Location & Pools:

State Y No. 7
430' FNL & 760' FEL
Section 25, T-25-S, R-37-E
Lea County, New Mexico
Justis Blinebry and Justis Montoya Pools
- c. Acreage Dedication (40 acres) - Attached
- d. 24-Hour Productivity Test - Latest Form C-116 & Forms C-115 Attached
- e. Decline Curves - Attached
- f. Bottom Hole Pressures - Attached

Blinebry: 254 PSIA
Montoya: 475 PSIA
- g. Fluid Compatibility - Martin Water Laboratories Analysis Attached
- h. Commingling Computations Attached
- i. Allocation of Production - based on last production ratios:
- | | <u>Oil</u> | <u>Gas</u> | <u>Water</u> |
|----------|------------|------------|--------------|
| Blinebry | 30% | 96% | 1% |
| Montoya | 70% | 4% | 99% |
- j. Notification of Offset Operators (Includes Offset Ownership) - Attached

All offset operators have been notified by certified mail
of this downhole commingling application.

NEW MEXICO OIL CONSERVATION COMMISSION
Well Location and Acreage Dedication Plat

Section A

Date April 8, 1959

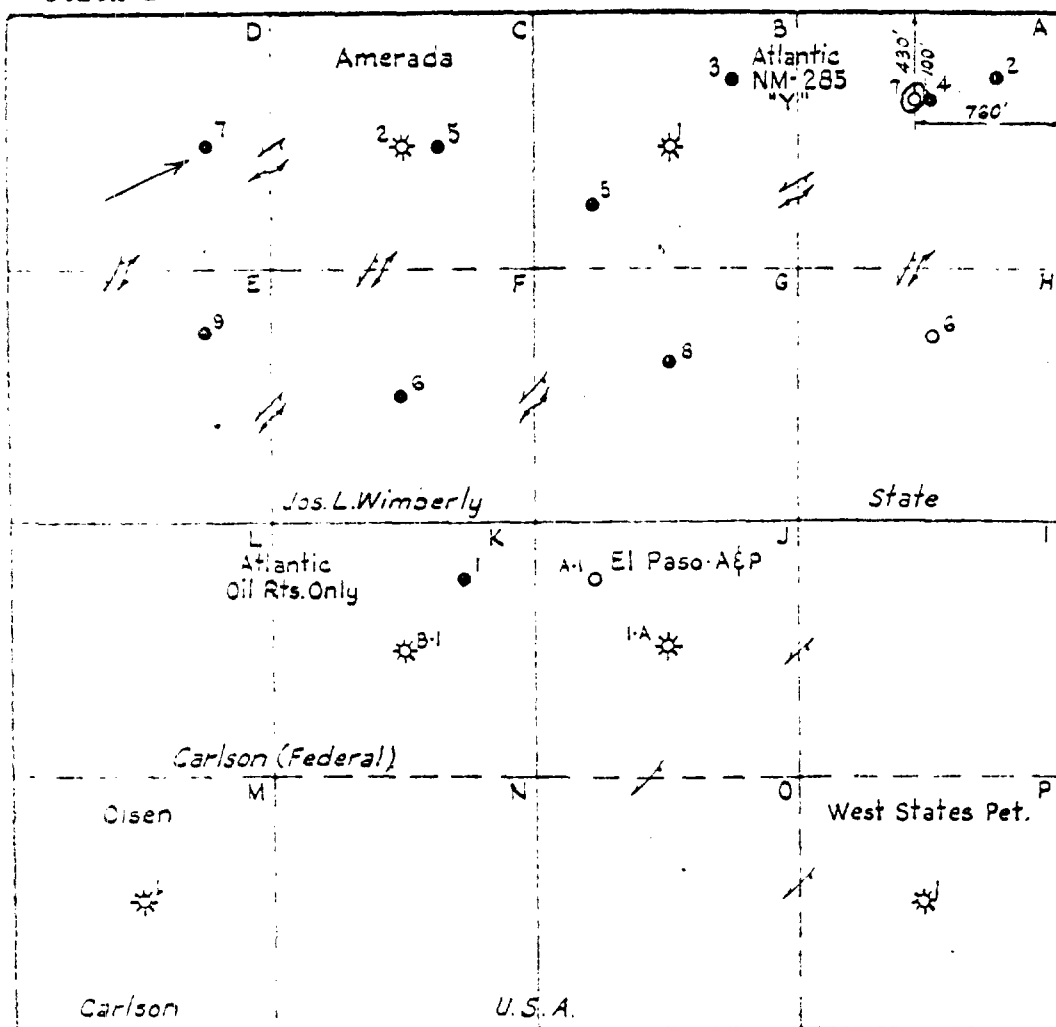
Operator The Atlantic Refining Company Lease State "Y"
Well No. 7 Unit Letter A Section 25 Township 25 South Range 37 East N.M.P.M.
Located 430 Feet From the North Line, 760 Feet From the East Line
County Lea G. L. Elevation _____ Dedicated Acreage 39.98 Acres
Name of Producing Formation Alibon-Montoya Pool Justis

1. Is the operator the only owner* in the dedicated acreage outlined on the plat below?
Yes x No _____.
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes _____ No _____. If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner

Land Description

Section B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

The Atlantic Refining Company

(Operator)

W. J. Stewart
(Representative)

P.O. Box 2819, Dallas, Texas

Address

This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed April 3, 1959

R. A. Waterhouse
R. A. Waterhouse, Asst. Chief Surveyor
The Atlantic Refining Company

GAS-OIL RATIO TESTS

Operator		Pool		County		Lea								
Div of Atlantic Richfield Company		Justis Blinberry		TYPE OF TEST - (X)		Completion ☐ Special ☐								
Address		P. O. Box 1710, Hobbs, New Mexico 88240		DATE OF TEST		DAILY ALLOW-ABLE								
LEASE NAME	WELL NO.	LOCATION				CHOKE SIZE	TBG. PRESS.	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./		
		U	S	T	A				WATER BBLs.	GRAV. OIL	OIL BBLs.		GAS M.C.F.	
Carlson Federal	1	K	25	25	37	2/14/86	P	8	24	6	36.2	9	245	27,222
"	2	L	25	25	37	2/15/86	P	6	24	10	36.2	7	66	9,428
Carlson "A" Federal	1	I	23	25	37	2/15/86	P	2	24	3	36.2	2	22	11,000
"	2	J	23	25	37	2/07/86	P	3	24	11	36.4	4	17	4,250
Justis Federal	2	O	11	25	37	2/18/86	P	3	24	4	36.2	3	52	17,333
"	3Y	P	11	25	37	2/17/86	P	5	24	5	36.2	5	38	7,600
Langlie Federal	1	I	14	25	37	2/04/86	P	8	24	3	36.4	5	120	24,000
"	2	J	14	25	37	2/12/86	P	11	24	4	36.2	9	68	7,555
Langlie "A" Federal	1	H	14	25	37	2/06/86	P	6	24	3	36.2	4	75	18,750
"	2	G	14	25	37	2/20/86	P	10	24	6	36.2	8	127	15,875
Langlie "B" Federal	1	A	14	25	37	2/21/86	P	5	24	5	36.2	4	40	10,000
"	2	B	14	25	37	2/20/86	P	4	24	4	36.2	4	32	8,000
State Y	3	B	14	25	37	2/17/86	P	2	24	1	36.2	2	66	33,000
"	7	A	14	25	37	2/06/86	P	8	24	1	36.2	3	99	33,000

No well will be assigned an allowable greater than the amount of oil produced on the official test.

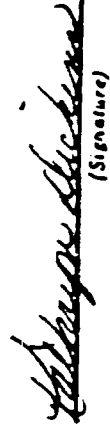
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized 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.

Well original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 301 and appropriate pool rules.

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


(Signature)

Services Supv.

5/22/86
(Date)

GAS-OIL RATIO TESTS

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/BB						
		U	S	T						WATER BBL'S.	GRAV. OIL	OIL BBL'S.							
State view	3	B	25	25	37	2/18/86	P	19	24	118	36.2	16	1,187						
"	7	A	25	25	37	2/20/86	P	21	24	13	36.2	7	571						
"	9	A	25	25	37	2/20/86	P	21	24	13	36.2	12	1,000						
* Share same 40 acre proration unit																			

Completion ☐ Special ☐Scheduled ☒

TYPE OF TEST - (X)

County

Pool

ARCO Oil and Gas Company

Div. of Atlantic Richfield Company

Justis Montoya

O. Box 1710, Hobbs, New Mexico 88240

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.



(Signature)

Services Supv.

(Title)

5/22/86

OPERATOR'S MONTHLY REPORT

DISTRIBUTION

ORIGINAL TO OCC SANTA FE
ONE COPY TO OCC DIST. OFFICE
ONE COPY TO TRANSPORTER(S)

Company Atlantic Richfield Company

P.O. Box 1610, Midland, TX

79702

for OCT 1986

Page 153 of 153

POOL NAME (Underline) *Lease Name WELL NO UNIT SEC TWP RNG	STATUS CODE F.....FLOWING P.....PUMPING G.....GAS LIFT S.....SHUT IN T.....TEMP ABANDONED I.....INJECTION D.....DISCONTINUED	INJECTION		TOTAL LIQUIDS PRODUCED			GAS PRODUCED (MCF)	DAYS PROD.	DISPOSITION OF GAS			DISPOSITION OF OIL				OTHER INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE
		VOLUME	PRESS.	MONTHLY OIL ALLOWABLE	ACTUAL BARRELS OF WATER PRODUCED	BARRELS OF WATER PRODUCED			SOLD	TRANS POR-TEN	OTHER	C O D E	OIL ON HAND AT BEG. OF MONTH	BARRELS TRANS- POR- TIER	OTHER	
*LEASE NAME - Include State Lease Number or Federal Lease Number																
Commingled Batteries Same Lease Name Cont.																
(Commingled with Justis Fusselman, Justis Montoya, Justis Tubb Drinkard)																
Justis Blinebry																
State Y B-11478																
3 UT-B 25 25S 37#	F			62	22	0	749	31								
6 UT H 25 25S 37E	F			-	-	-	1336	31								
7 UT-A 25 25S 37E	F			93	107	93	2855	31								
Total				155	129	93	4940			4852	EPG	88	u			
Justis Fusselman																
State Y B-11478																
5 LT-B 25 25S 37E	P			744	467	3720	3869	31								
8 LT-H 25S 37E	T			-	-	-										
Total				744	467	3720	3869			3781	EPG	88	u			

"OTHER" OIL DISPOSITION CODE
C.....CIRCULATING OIL
L.....LOST
S.....SEDIMENTATION (BSGW)
E.....EXPLANATION ATTACHED

"OTHER" GAS DISPOSITION CODE
X.....USED OFF LEASE
D.....USED FOR DRILLING
G.....GAS LIFT
L.....LOST (MCF ESTIMATED)
E.....EXPLANATION ATTACHED
R.....PRESSURING OR
V.....VENTED
U.....USED ON LEASE

(NAME)

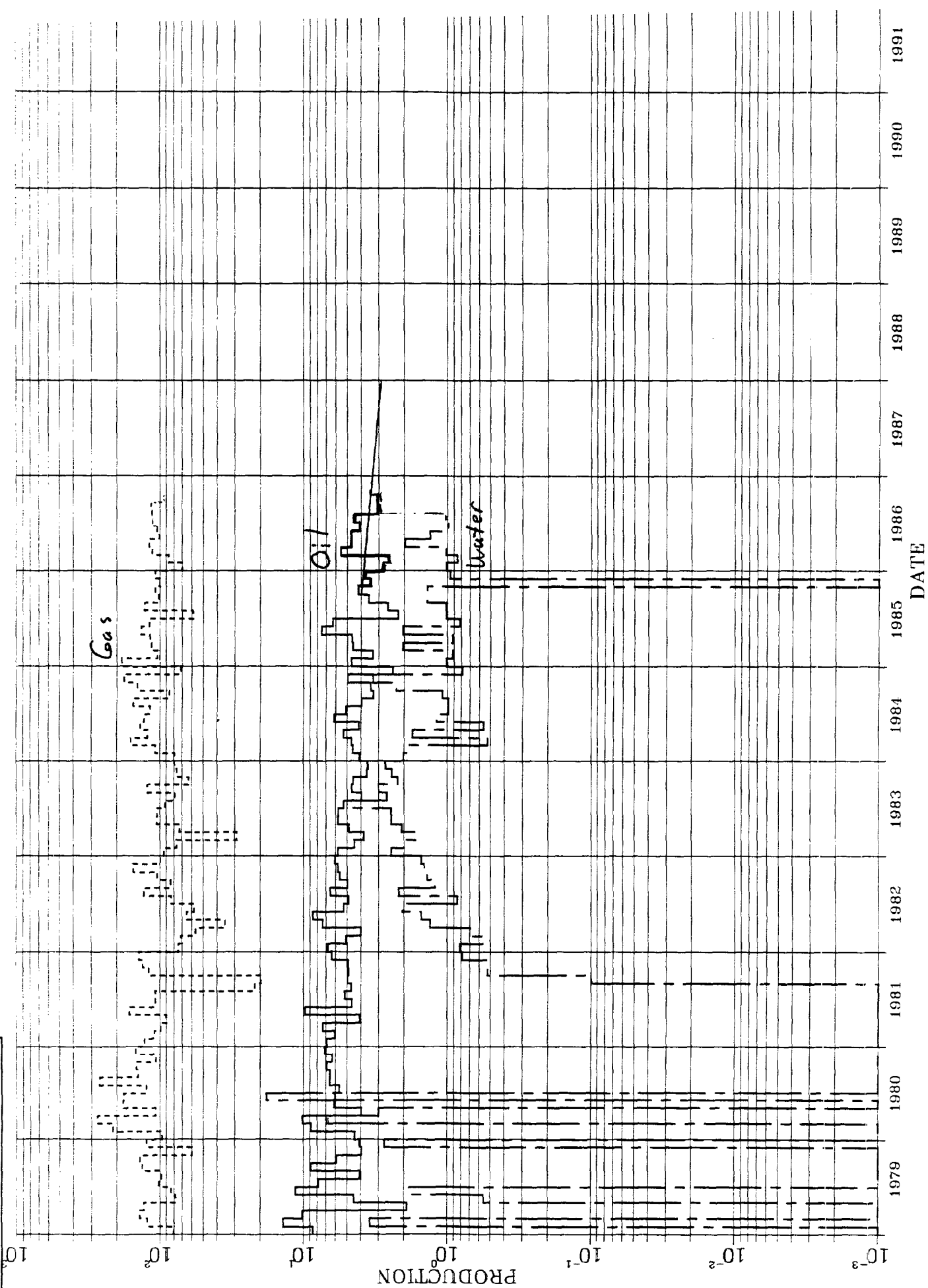
(POSITION)

(SIGNATURE)

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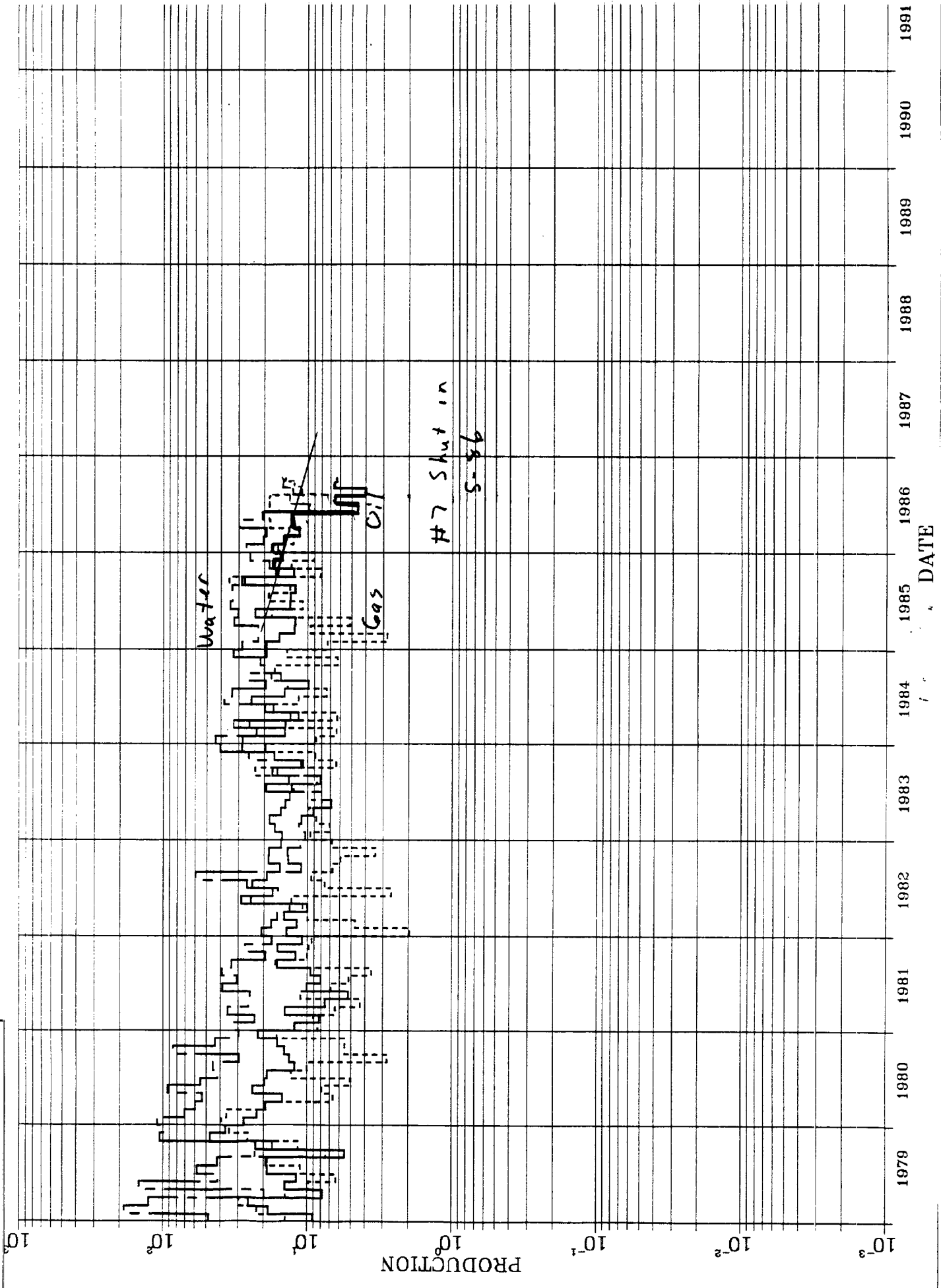
FIELD: JUSTIS BLINERY
LEASE: STATE Y WELL# 000007
OPERATOR: ARCO OIL & GAS CO

.....
OIL PRODUCTION, STBO/D
GAS PRODUCTION, MCF/D
WATER PRODUCTION, STBW/D



FIELD: JUSTIS MONTROYA
LEASE: STATE Y WELL # 000007 + 9
OPERATOR: ARCO OIL & GAS CO

LEGEND
OIL PRODUCTION, STBO/D
GAS PRODUCTION, MCF/D
WATER PRODUCTION, STBW/D





Date: November 19, 1986

Subject: State Y No's. 3 and 9
Bottomhole Pressure Estimate

From/Location: L. A. Parnell - 121 HOO

Telephone: 392-1253

To/Location: Mr. R. S. Frentice - 117 MID

Static pressure tests were conducted on the subject wells to determine the reservoir pressure in the Blinebry and Montoya zones. Results of the tests are as follows:

WELL	START DATE	RESERVOIR	TEST LENGTH (hrs.)	BHP (psia)
#3	11/7/86	Blinebry	72	254
#9	11/14/86	Montoya	96	475

Please inform me if further information is required.

L. A. Parnell
Production/Facilities Engineer

TO: Mr. George Ricks
P.O. Box 1710, Hobbs, NM

LABORATORY NO. 484419
SAMPLE RECEIVED 4-30-84
RESULTS REPORTED 5-7-84

COMPANY ARCO Oil & Gas Company LEASE State "Y"
FIELD OR POOL Justis
SECTION 25 BLOCK SURVEY T-25S COUNTY Lea STATE NM
R-37E
SOURCE OF SAMPLE AND DATE TAKEN: _____

NO. 1 Produced water - taken from State "Y" #6 (wellhead).

NO. 2

REMARKS: Montoya - 6,915' - 6,971'

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	me/l	NO. 2	me/l
Specific Gravity at 60° F.	1.0558			
pH When Received	6.88			
Carbonate as CO ₃	0	0.0		
Bicarbonate as HCO ₃	976			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	12,500			
Calcium as Ca	4,160	208.0		
Magnesium as Mg	510	42.0		
Sodium and/or Potassium	25,795	1,121.6		
Sulfate as SO ₄	2,583	53.7		
Chloride as Cl	46,162	1,301.8		
Iron as Fe	0.47	0.0		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	80,187			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
XXXXXX Sulfide - Total	800			
Resistivity, ohms/m at 77° F.	0.111			
Suspended Oil				
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks In an effort to establish compatibility between the above and Blinberry water, we were unable to come up with any records that you have of Blinberry in this area. We therefore must utilize records from our catalog to establish the most probable compatibility between the two waters. With this qualification, we did not identify any evidence of incompatibility between this Montoya water and our area records of Blinberry.				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks In an effort to establish compatibility between the above and Blinberry water, we were unable to come up with any records that you have of Blinberry in this area. We therefore must utilize records from our catalog to establish the most probable compatibility between the two waters. With this qualification, we did not identify any evidence of incompatibility between this Monrovia water and our area records of Blinberry.

State Y 7
Commingling Computations

Perforations:

Blinebry 5038-5432'
Montoya 6868-6960'

Rule 303-C Productions Limitations (Bottom Perf-Lowermost Pool 6000-6999'):

40 BOPD
80 BWPD

Latest Production Data (Based on Form C-116 Submitted 5-22-86):

	<u>Blinebry</u>	<u>% of Total</u>	<u>Montoya</u>	<u>% of Total</u>
BOPD	3	30	7	70
MCFD	99	96	4	4
BWPD	1	1	13	99

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



CERTIFIED
RETURN RECEIPT
REQUESTED

October 21, 1986

OFFSET OPERATORS
STATE Y LEASE

Gentlemen:

Notification of Intent to Downhole Commingle
the Justis Blinebry and Justis Montoya Pools
State Y No. 7
430' FNL & 760' FEL
Section 25, T-25-S, R-37-E
Lea County, New Mexico

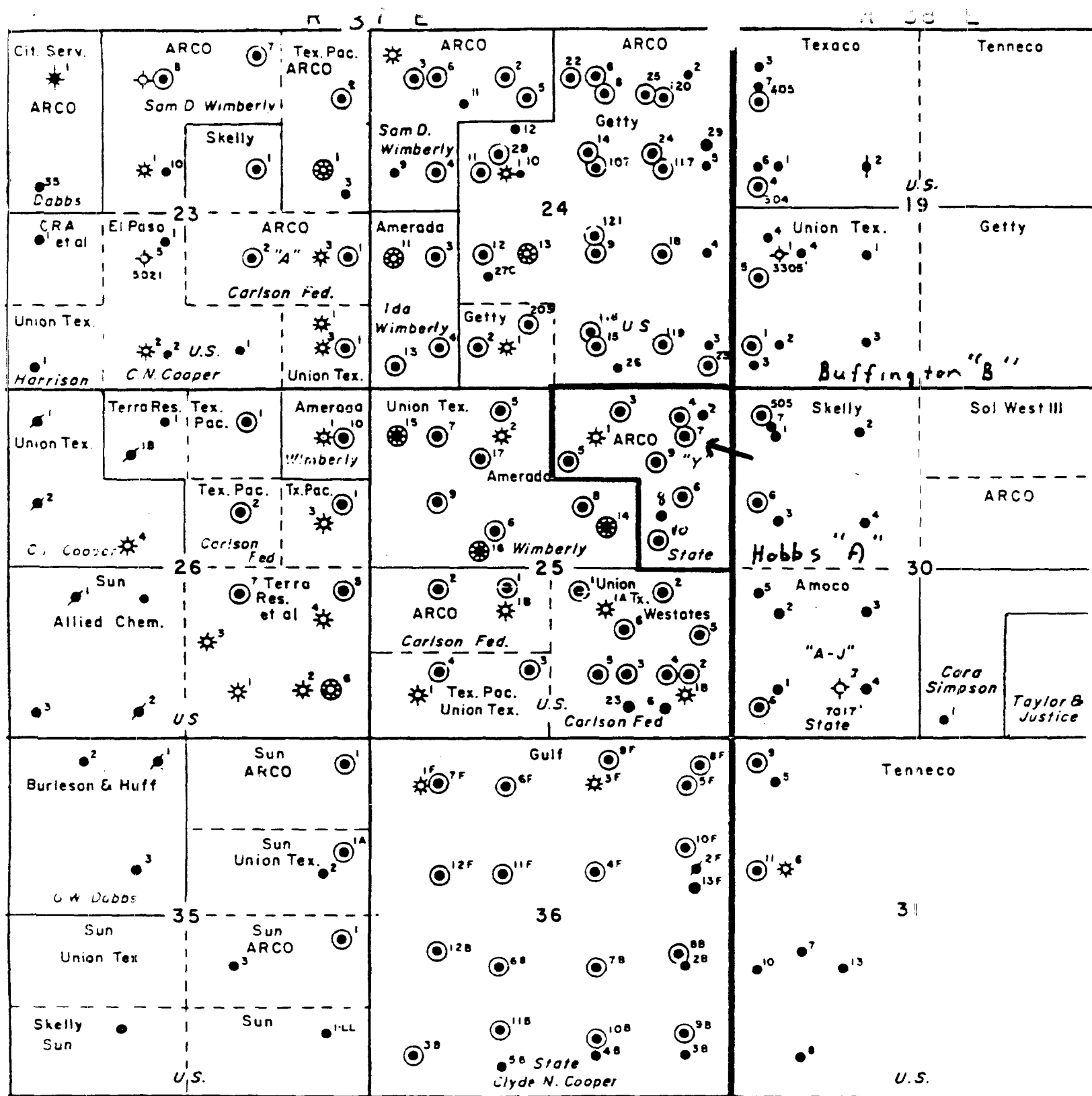
In accordance with New Mexico Oil Conservation Division regulations, you are hereby notified of ARCO Oil and Gas Company's application to downhole commingle production from the Justis Blinebry and Justis Montoya pools in the State Y No. 7 well.

Yours very truly,

Richard S. Prentice

R. S. Prentice
Senior Engineer

RSP:tis



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

LEA COUNTY, NEW MEXICO

SCALE 1" = 2000'

By D. BRUCKER	Drawn By J. B. B.
Date 7-18-83	Revised By
Dept WEST AREA ENGR.	Drawn By

OFFSET OPERATORS

STATE Y LEASE

Amerada Hess Corporation
2207 Industrial
Midland, TX 79701

Amoco Producing & Exploration Co.
4044 Penbrook
Odessa, TX 79762

Texaco Producing, Inc.
P.O. Box 3109
Midland, TX 79702

Union Texas Petroleum Corporation
Box 2120 One Riverway
Houston, TX 77252