



ARCO Permian

600 North Mariefeld
Midland, TX 79701-4373
P.O. Box 1610
Midland, TX 79702-1610
Telephone 915-688-5570
Facsimile 915-688-5956
Email ecasbee@mail.arco.com

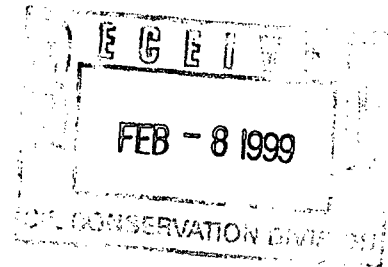
Elizabeth A. Casbeer
Regulatory/Compliance Analyst

DHC 3/1/99

2210

February 3, 1999

New Mexico Oil Conservation Division
ATTN: David Catanach
2040 S. Pacheco Street
Santa Fe, NM 87505



RE: Application of ARCO Permian
for Downhole Commingling on
West Redlake "4" Federal Well Number 2 and
Lago Rosa "4" Federal Well Number 5
Red Lake (QGSA) and Empire (Yeso) Fields
Eddy Co., NM

Mr. Catanach:

ARCO Permian respectfully requests administrative approval for downhole commingling on the West Redlake "4" Federal Well Number 2 and Lago Rosa "4" Federal Well Number 5. Attached are the supporting documents for this application.

If you have any questions, please contact me at 915/688-5570. Please send the approved permit to:

ARCO Permian
ATTN: E. A. CASBEER, Room 959-54
P. O. Box 1610
Midland, TX 79702

Yours very truly,

Elizabeth A. Casbeer
Regulatory Compliance Analyst

Attachments

xc: Bureau of Land Management
Carlsbad Resource Area
P. O. Box 1778
Carlsbad, NM 88220
Larry Henson - EUN
Dennis Braaten - 62923/MIO
Donald Knipe - 61323/MIO
Central Files - 041/MIO
R/C Files

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

___ Administrative ___ Hearing

EXISTING WELLBORE

___ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

ARCO Permian P.O.Box 1610 Midland, TX 79702

Operator

Address

Lago Rosa "4" Fed. No. 5

L-4-18S-27E

Eddy

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

OGRID NO. _____ Property Code _____ API NO. 30-015-30234 Spacing Unit Lease Types: (check 1 or more)

Federal ☒ , State _____, (and/or) Fee _____

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Red Lake (QGSA)		Empire (YES0)
2. Top and Bottom of Pay Section (Perforations)	to be perforated 1700'-2200'		2879'-3171'
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Art. Lift		Art. Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 70 Producing after perfs & put on pump b. (Original)	a. b.	a. 75 b.
6. Oil Gravity (°API) or Gas BTU Content	40-42° API		42° API
7. Producing or Shut-In?	Awaiting Perfs		Producing
Production Marginal? (yes or no)	Expected in 3 to 6 months		yes
* If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates: N/A	Date: Rates:	Date: Rates: N/A
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates: N/A	Date: Rates:	Date: 12/5/98 Rates: 30 BOPD 37 MCFGPD 95 BWPD
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 70 % Gas: 70 %	Oil: % Gas: %	Oil: 30 % Gas: 30 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ___ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ___ Yes ___ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ___ No11. Will cross-flow occur? ___ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ___ Yes ___ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ___ No13. Will the value of production be decreased by commingling? ___ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ___ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Elizabeth A. Casbeer TITLE Reg/Comp Analyst DATE 2/3/99TYPE OR PRINT NAME Elizabeth A. Casbeer TELEPHONE NO. (915) 688-5570

WELLBORE SCHEMATIC

ARCO PERMIAN LAGO ROSA 4 FED. NO. 5

1550' FSL & 1115' FWL (L)

Sec. 4, T-18-S, R-27-E,

Eddy County, NM

API: 30-015-030234

Spudded: 05/29/98

Completed: 07/11/98

Surface Casing 8 5/8" 24#
Cmt'd w/525 sx, Circ.
Shoe @ 1155'

KB: 3547'

GL: 3540'

Production Casing 5-1/2" 15.5#
Cement w/650 sx, Shoe @ 3800'
Cement Circulated to Surface

Perforations

2879'- 3171' (50 shots)

TD @ 3800'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)

Vaughn M1019 OPERATOR'S COPY

FORM APPROVED

OMB NO. 1004-0137

Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____				5. LEASE DESIGNATION AND SERIAL NO. NM-29280	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR ARCO Permian				7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. P.O. Box 1610, Midland, TX 79702 915-688-5570				8. FARM OR LEASE NAME, WELL NO. LAGO ROSA "4" 5 FEDERAL	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1550' FSL, 1115' FWL At top prod. interval reported below At total depth				9. API WELL NO. 30-015-30234	
14. PERMIT NO.				DATE ISSUED 5-4-98	
15. DATE SPUDDED 5/29/98				12. COUNTY OR PARISH EDDY	
16. DATE T.D. REACHED 6/7/98				13. STATE NM	
17. DATE COMPL. (Ready to prod.) 7/11/98				18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3540'	
19. ELEV. CASINGHEAD				10. FIELD AND POOL, OR WILDCAT EMPIRE (YES0)	
20. TOTAL DEPTH, MD & TVD 3800				11. SEC., T., R. M., OR BLK. AND SURVEY OR AREA 4-18S-27E	
21. PLUG, BACK T.D., MD & TVD 3778				22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY				ROTARY TOOLS X	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 2879-3171 (YES0)				CABLE TOOLS	
25. WAS DIRECTIONAL SURVEY MADE N				26. TYPE ELECTRIC AND OTHER LOGS RUN	
27. WAS WELL CORED N					

28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	1155	11	CIRC	NA
5-1/2	15.5	3800	7-7/8	CIRC	NA

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
					2-7/8	2917

31. PERFORATION RECORD (Interval, size and number) 2879-3171		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
2879-3171		FRAC W/ 2400 GAL 15% ₂	
		53000 GAL LINEAR GEL;	
		126000 #SD	

33.*		PRODUCTION		WELL STATUS (Producing or shut-in)	
DATE FIRST PRODUCTION		PRODUCTION METHOD (including gas lift, pumping - size and type of pump)		PRODUCING	
DATE OF TEST 7/13/98		CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.
HOURS TESTED 24				14	29
FLOW. TUBING PRESS. 80		CASING PRESSURE 80	CALCULATED 24-HOUR RATE	WATER - BBL.	GAS - OIL RATIO
				500	2071

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD	TEST WITNESSED BY
--	-------------------

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Elizabeth L. Cashen TITLE REGULATORY COMPLIANCE DATE 7/29/98

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof: cored intervals; and all drill-stem tests, including depth intervals tested, cushion used, time tool open, flow in and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
PREMIER SAND	1355	1390	SANDSTONE
SAN ANDRES	1662	2174	DOLomite
GLORIETA	2764	2866	SANDSTONE
YESO	2870	3155	DOLomite

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
BOWERS	556	
QUEEN	751	
GRAYBURG	1162	
PREMIER	1355	
SAN ANDRES	1390	
GLORIETA	2764	
YESO	2870	

RECEIVED
NOV 10 1964
U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-30234	Pool Code 96210	Pool Name EMPIRE (YESO)
Property Code 23056	Property Name LAGO ROSA "4" FEDERAL	Well Number 5
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 3540

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
16	4	18 S	27 E		1550	SOUTH	1115	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 8 39.92 AC.	LOT 7 39.37 AC.	LOT 6 37.70 AC.	LOT 5 37.73 AC.
LOT 9 38.93 AC.	LOT 10 38.43 AC.	LOT 11 37.23 AC.	LOT 12 37.28 AC.
LOT 16 38.85 AC.	LOT 15 38.64 AC.	LOT 14 37.82 AC.	LOT 13 37.61 AC.
LOT 17 38.64 AC.	LOT 18 38.43 AC.	LOT 19 38.01 AC.	LOT 20 37.80 AC.

3525.4' 542.1'
1115' 3538.6' 3553.8' 1550'

NAD27
SPC
NME
X=513965=E
Y=645178=N

OPERATOR CERTIFICATION
I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
Elizabeth Casbeer
Signature
ELIZABETH CASBEER
Printed Name
REG COMP. ANALYST
Title
7/29/98
Date

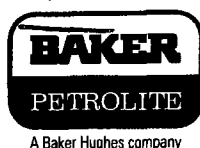
SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
NOVEMBER 14, 1997
Date Surveyed
Signature & Seal of Professional Surveyor
Professional Surveyor
RONALD E. EIDSON
P.O. Num. 87-117-1893
Certificate No. JOHN W. WEST, 878
RONALD E. EIDSON, 3239
CARL G. EIDSON, 12641

Lago Rosa "4" Federal No. 5

Allocation Formula

Well Name	Producing Formation	Daily Production Test (3 mo. Avg. Oct, Nov, Dec. 98')	% of Total
Lago Rosa "4" Federal No. 4	Red Lake (QGSA)	63 BO/123 MCF/56 BW	68 %
Lago Rosa "4" Federal No. 5	NE Red Lake (Glor-Yeso)	30 BO/37 MCF/91 BW	32 %

The above production test represents stable production from a San Andres producer (Lago Rosa "4" Federal No. 4) and a Yeso producer (Lago Rosa "4" Federal No. 5) . We believe these rates of production represent an acceptable means to allocate production. See attached production plots and tabulated data.



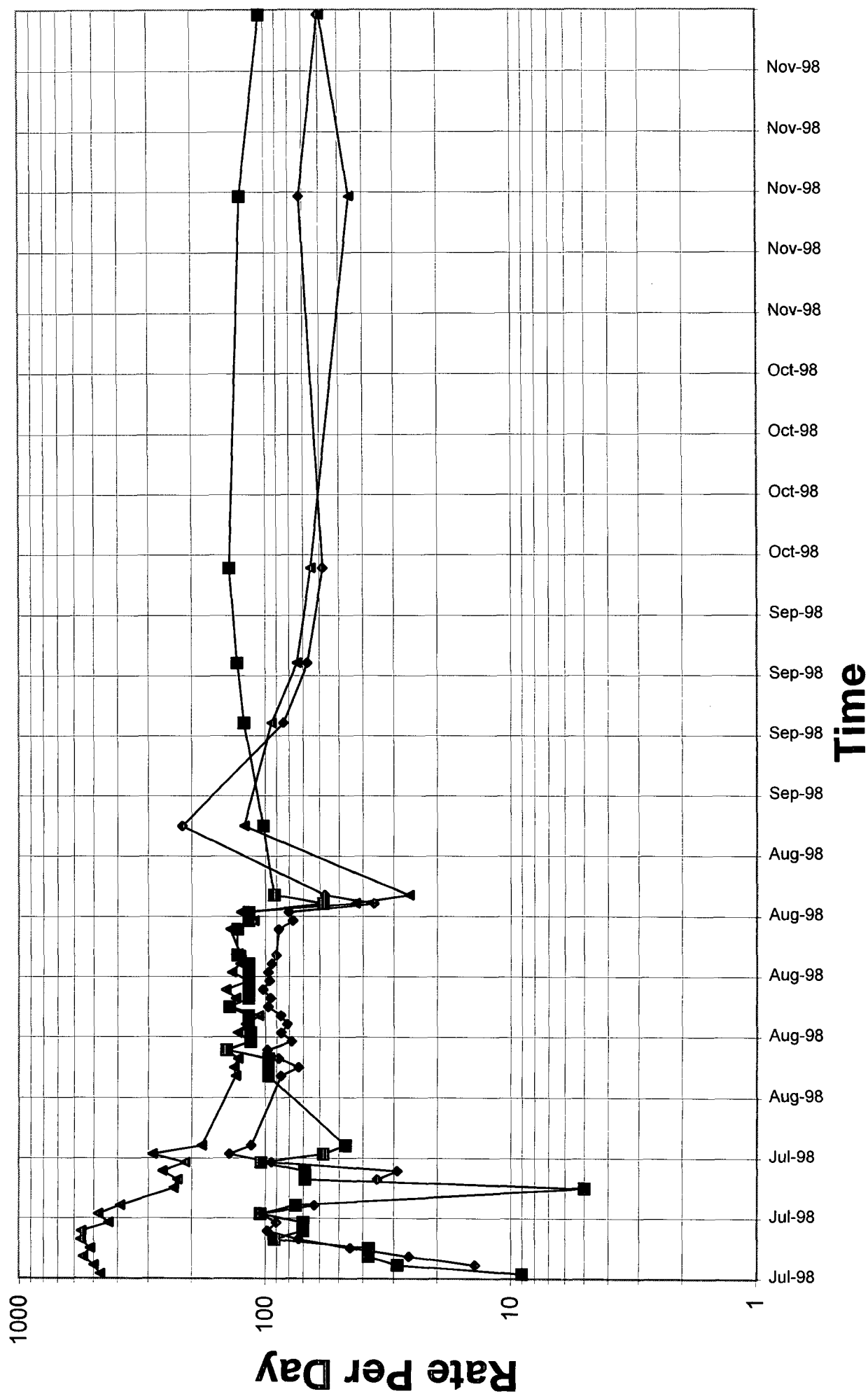
Analysis: 22438

Water Analysis Report from Baker Petrolite

Summary of Mixing Waters		
Sample Number	106619	106620
Company	ARCO	ARCO
Lease Well Sample Location	LAGO ROSA 4 FED #4 WELLHEAD <i>(San Andres)</i>	LAGO ROSA 4 FED #5 WELLHEAD <i>(Yeso)</i>
Anions (mg/L)		
Chloride	39,939	109,197
Bicarbonate	1,000	960
Carbonate	0.00	0.00
Sulfate	4,596	4,929
Phosphate	0.00	0.00
Borate	0.00	0.00
Silicate	0.00	0.00
Cations (mg/L)		
Sodium	25,340	70,833
Magnesium	276	318
Calcium	2,150	1,658
Strontium	21.0	31.0
Barium	0.20	0.05
Iron	1.00	0.60
Potassium	229	302
Aluminum	0.00	0.00
Chromium	0.00	0.00
Copper	0.00	0.00
Lead	0.00	0.00
Manganese	0.00	0.00
Nickel	0.00	0.00
Anion/Cation Ratio	1.00	1.00
TDS (mg/L)	73,553	188,229
Density (g/cm)	1.05	1.11
Sampling Date	7/23/98	7/23/98
Account Manager	DON BLACKSTOCK	DON BLACKSTOCK
Analyst	SHEILA DEARMAN	SHEILA DEARMAN
Analysis Date		7/29/98
pH at time of sampling	5.90	5.70
pH at time of analysis		
pH used in Calculations	5.90	5.70

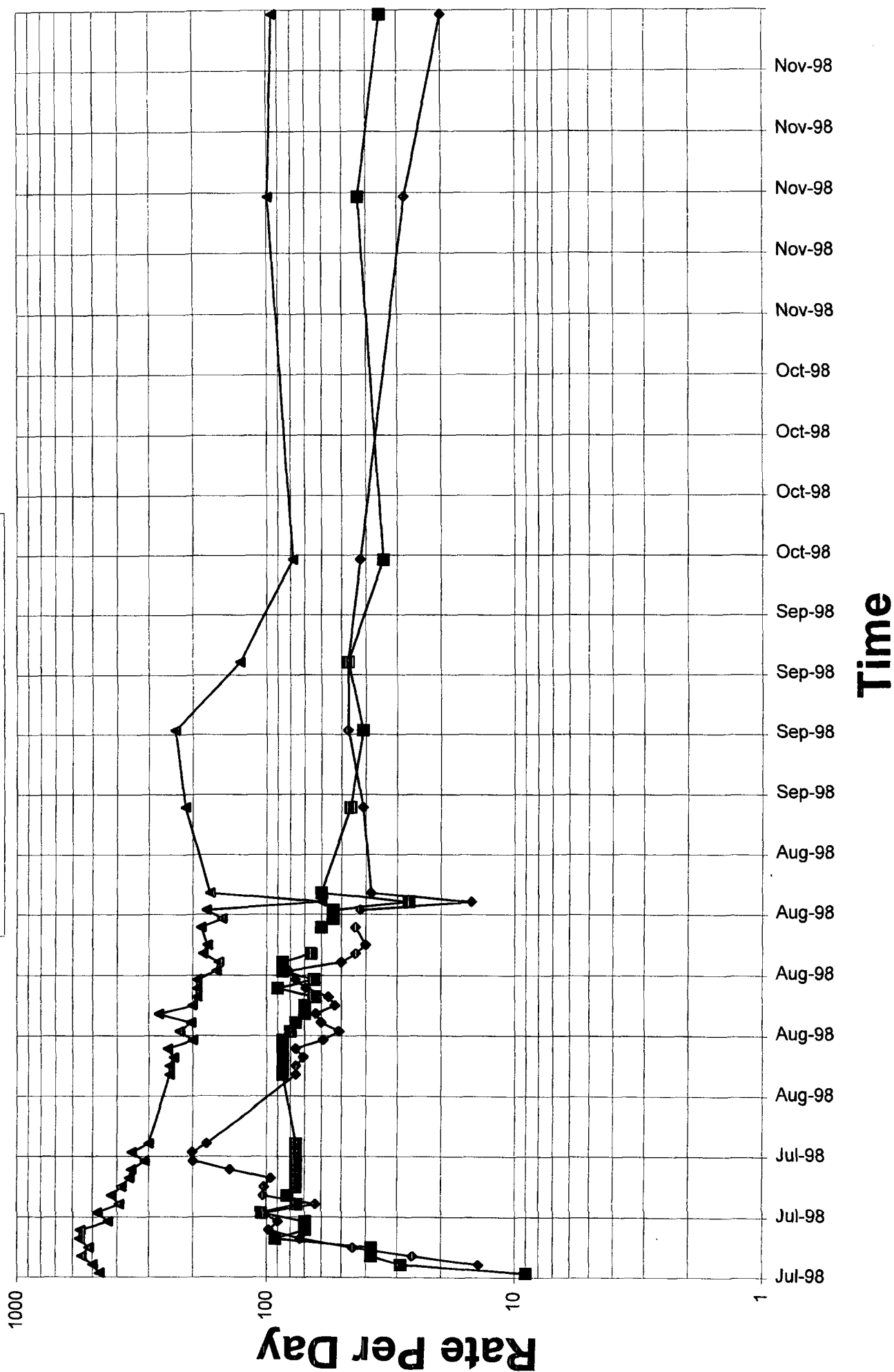
Lago Rosa "4" Fed #4 (San Andres)

—◆— OIL —■— MCF —▲— WATER



Lago Rosa "4" Fed #5 (Yeso)

—◆— OIL —■— MCF —▲— WATER



LagoRosa Fed 4 #4

Lago Rosa "4" Federal No. 4				
DATE	WELL	OIL	MCF	WATER
12/5/1998	#4	60	104	59
11/14/1998	#4	72	126	45
10/2/1998	#4	58	140	65
9/21/1998	#4	67	130	74
9/14/1998	#4	84	122	94
9/2/1998	#4	218	102	122
8/25/1998	#4	57	92	26
8/24/1998	#4	36	58	43
8/23/1998	#4	80	117	126
8/22/1998	#4	77	117	111
8/21/1998	#4	88	130	139
8/18/1998	#4	90	130	126
8/17/1998	#4	94	117	127
8/16/1998	#4	97	117	137
8/15/1998	#4	96	117	117
8/14/1998	#4	102	117	145
8/13/1998	#4	95	117	132
8/12/1998	#4	97	140	140
8/11/1998	#4	86	117	106
8/10/1998	#4	81	117	120
8/9/1998	#4	86	115	130
8/8/1998	#4	78	115	115
8/7/1998	#4	98	144	145
8/6/1998	#4	88	97	129
8/5/1998	#4	73	97	134
8/4/1998	#4	86	97	132
7/27/1998	#4	114	47	182
7/26/1998	#4	140	58	288
7/25/1998	#4	94	104	212
7/24/1998	#4	29	69	263
7/23/1998	#4	35	69	229
7/22/1998	#4	0	5	237
7/20/1998	#4	63	75	391
7/19/1998	#4	104	105	479
7/18/1998	#4	90	70	435
7/17/1998	#4	98	70	560
7/16/1998	#4	73	92	564
7/15/1998	#4	45	38	518
7/14/1998	#4	26	38	552
7/13/1998	#4	14	29	500
7/12/1998	#4	0	9	470

LagoRosa Fed 4 #5

Lago Rosa "4" Federal No. 5				
DATE	WELL	OIL	MCF	WATER
12/5/1998	#5	20	35	95
11/14/1998	#5	28	43	99
10/3/1998	#5	42	34	78
9/21/1998	#5	47	47	128
9/13/1998	#5	47	41	235
9/4/1998	#5	41	46	214
8/25/1998	#5	38	60	170
8/24/1998	#5	15	27	60
8/23/1998	#5	42	54	176
8/22/1998	#5	*	54	152
8/21/1998	#5	44	60	185
8/19/1998	#5	40		174
8/18/1998	#5	44	66	182
8/17/1998	#5	50	86	157
8/16/1998	#5	81	86	160
8/15/1998	#5	76	64	192
8/14/1998	#5	69	90	192
8/13/1998	#5	56	64	192
8/12/1998	#5	53	70	201
8/11/1998	#5	63	70	273
8/10/1998	#5	60	76	203
8/9/1998	#5	51	80	226
8/8/1998	#5	59	86	200
8/7/1998	#5	76	86	252
8/6/1998	#5	71	86	239
8/5/1998	#5	76	86	248
8/4/1998	#5	76	86	248
7/27/1998	#5	175	76	300
7/26/1998	#5	200	76	350
7/25/1998	#5	199	76	311
7/24/1998	#5	141	76	352
7/23/1998	#5	96	76	358
7/22/1998	#5	102	76	385
7/21/1998	#5	103	82	420
7/20/1998	#5	63	75	391
7/19/1998	#5	104	105	479
7/18/1998	#5	90	70	435
7/17/1998	#5	98	70	560
7/16/1998	#5	73	92	564
7/15/1998	#5	45	38	518
7/14/1998	#5	26	38	552
7/13/1998	#5	14	29	500
7/12/1998	#5	0	9	470

2 "Eagle Fed."
 Marbo Energy
 (Honax)
 055-1310
 U.S.

(MWPet.) (MWPet.) Devon
 T-P 5-C (Pan Am)
 (Harold) 0557370
 061541 Devon
 3-B
 Devon
 (AmCo) 13-B
 Triang Fed.
 Mgr. Disc.
 H-F
 3-E
 10-E
 7-Mil
 Eagle
 23-L
 (MWPet.) 27-M
 (Pan Am) 1-P
 USA Mgr. 24-M
 Grbg. 24-M
 24-L (Harold)
 25-M Pad. Disc.
 26-M Pib 3008
 Eagle
 Fed. 27-M
 28-M
 29-M
 30-M
 31-M
 32-M
 33-M
 34-M
 35-M
 36-M
 37-M
 38-M
 39-M
 40-M
 41-M
 42-M
 43-M
 44-M
 45-M
 46-M
 47-M
 48-M
 49-M
 50-M
 51-M
 52-M
 53-M
 54-M
 55-M
 56-M
 57-M
 58-M
 59-M
 60-M
 61-M
 62-M
 63-M
 64-M
 65-M
 66-M
 67-M
 68-M
 69-M
 70-M
 71-M
 72-M
 73-M
 74-M
 75-M
 76-M
 77-M
 78-M
 79-M
 80-M
 81-M
 82-M
 83-M
 84-M
 85-M
 86-M
 87-M
 88-M
 89-M
 90-M
 91-M
 92-M
 93-M
 94-M
 95-M
 96-M
 97-M
 98-M
 99-M
 100-M

4076
 Devon - 18
 Fokan - 10
 Fed. - 60
 Jane Ann Tr. 1 4C
 OXY - ARCO
 1 11
 105465
 2 10
 020003
 04
 15K
 3
 J Armo
 Altura
 061703
 9
 Devon 16K
 Fokan 10
 Fed. 100
 10542
 1705
 1305
 Monn
 U.S.
 Malco
 Malco

Amoco (D.O.) Merit
 070934
 901
 Merit
 901 T: NI
 (Pan Am)
 "Malco" (93) 10
 9K
 TD2019
 Tr. P Compton
 Mamm
 TD2019
 U.S.
 292

ARCO Permian
Downhole Commingling
Lago Rosa "4" Federal Well No. 5
API: 30-015-30234
1500' FSL & 1115' FWL (L)
Section 4, T-18-S, R-27-E
Eddy County, New Mexico

ARCO Permian
Downhole Commingling
West Redlake "4" Federal Well No. 2
API: 30-015-03186
330' FNL & 1550' FWL (C)
Section 4, T-18-S, R-27-E
Eddy County, New Mexico

Surface Owners for Unit L:

Bureau of Land Management
Carlsbad Resource Area
P. O. Box 1778
Carlsbad, NM 88220

Bogle, Ltd.
P. O. Box 460
Dexter, NM 88230-0460

Offset Operators:

Altura Energy, Ltd.
Attn: Mr. Jerry D. West
P.O. Box 4294
Houston, TX 77210-4294

Devon Energy Corp.
Attn: Mr. Ken Gray
20 North Broadway #1500
Oklahoma City, OK 73102

Exxon Corporation
P. O. Box 2180
Houston, TX 77252-2180

Surface Owners for Unit C:

Bureau of Land Management
Carlsbad Resource Area
P. O. Box 1778
Carlsbad, NM 88220

Bogle, Ltd.
P. O. Box 460
Dexter, NM 88230-0460

Offset Operators:

Altura Energy, Ltd.
Attn: Mr. Jerry D. West
P.O. Box 4294
Houston, TX 77210-4294

Devon Energy Corp.
Attn: Mr. Ken Gray
20 North Broadway #1500
Oklahoma City, OK 73102

Exxon Corporation
P. O. Box 2180
Houston, TX 77252-2180

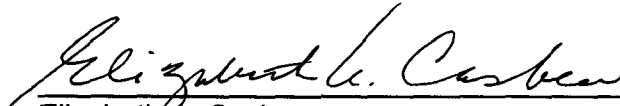
ARCO Permian
P. O. Box 1610
Midland, TX 79702

STATE OF TEXAS

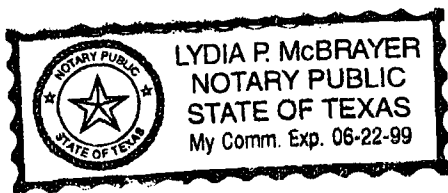
COUNTY OF MIDLAND

BEFORE ME, the undersigned authority on this day personally appeared Elizabeth A. Casbeer, an Regulatory Compliance Analyst with **ARCO Permian**, who being by me duly sworn, deposes and states that the persons listed on the foregoing attached list have been sent a copy on February 3, 1999, of the New Mexico Oil Conservation Division Form C-107 entitled, "Application For Downhole Commingling" for the West Redlake "4" Federal Well Number 2 and Lago Rosa "4" Federal Well Number 5, located in Section 4, T18S, R27E, Eddy County New Mexico.

ARCO Permian


Elizabeth A. Casbeer

SUBSCRIBED AND SWORN TO before me on February 3, 1999, to certify which witness my hand and seal of office.




NOTARY PUBLIC, STATE OF TEXAS