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 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
New 3-12-96

APPROVAL PROCESS:
X Administrative ___ Hearing

EXISTING WELLBORE
X YES ___ NO

UNION OIL COMPANY OF CALIFORNIA (UNOCAL) 1004 N. BIG SPRING, MIDLAND TX 79702
Operator — Address

RINCON UNIT	137	K 24-T27N-R7W	RIO ARRIBA
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County

OGRID NO. 023708 Property Code 011510 API NO. 30-039-06975 Spacing Unit Lease Types: (check 1 or more) Federal X, 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	BLANCO MESAVERDE 72319		BASIN DAKOTA 71599
2. Top and Bottom of Pay Section (Perforations)	5456-5596 Proposed 4982-5032		7474-7536
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 236 psia b. (Original) 1282 psia	a. b.	a. 439 psia b. 2884 psia
6. Oil Gravity (°API) or Gas BTU Content	1296 BTU		1176 BTU
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)	YES		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:	Date: Rates:	Date: Rates:
* If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: Rates: 1-98 55 mcfd, 0 bopd, 0 bwpd	Date: Rates:	Date: 1-98 Rates: 209 mcfd, 1 bopd, 0 bwpd
8. Fixed Percentage Allocation Formula -% for each zone	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

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MAR 25 1998
OIL CON. DIV.
DIST. 3

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 X No
If not, have all working, overriding, and royalty interests been notified by certified mail? R-9893 ___ Yes ___ No
Have all offset operators been given written notice of the proposed downhole commingling? ___ Yes ___ No No offset

11. Will cross-flow occur? ___ Yes X 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? X Yes ___ No

13. Will the value of production be decreased by commingling? ___ Yes X 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. X Yes ___ No

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

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 Heather Dahlgren TITLE Engineering Tech DATE 3-23-98

TYPE OR PRINT NAME HEATHER DAHLGREN TELEPHONE NO. (915) 685 7665

March 23, 1998

Supplemental Data for C-107-A, Rincon Unit Well No. 137

Well History: The Rincon Unit Well No. 137 was drilled and completed as a Dakota / Mesaverde (Point Lookout) dual well in January 1960. Unocal proposes to add perforations in the Cliff House member of the Mesaverde. This well would be operated most economically with a downhole commingled completion. An estimated completion date is late April or May 1998.

Production History: Current gas production is 209 Mcfd from the Dakota and 55 Mcfd from the Mesaverde. The Dakota produces trace amounts of oil and water. An estimated initial rate for the first 30 days of additional Mesaverde production is 307 Mcfd and 4 Bopd. This estimate is an average based on actual IP's and production from six recent Mesaverde completions on the Rincon Unit. Please see attachments for this supporting data.

Pressure Data: Original and current bottom hole pressures were calculated from surface shut-in casing pressures. Please see attachments for the bottom hole calculation, date and duration of these tests.

Allocation of Production: Unocal proposes to use an allocation based on an established Dakota annual decline rate of 4.23%. Dakota production will be extrapolated monthly using Bureau of Land Management recommended allocation methods with the remainder of the commingled production being allocated to the Mesaverde formation. Please see attachments for the Dakota forecast. Initial flush production volumes have been added to the Dakota due to the anticipated extended shut-in during the workover. While tabular data has been provided for the first five years of the Dakota forecast, we anticipate being able to convert to a fixed allocation factor within 12 to 24 months. Unocal also proposes to use a yield factor for allocating liquid production. This factor based on the average oil and water yield for 1997.

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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-06975	71599	BASIN DAKOTA

[4] Property Code	[5] Property Name	[6] Well Number
011510	RINCON UNIT	137

[7] OGRID No.	[8] Operator Name	[9] Elevation
023708	UNION OIL COMPANY OF CALIFORNIA (UNOCAL)	6750'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	24	27N	7W		1500	S	1800	W	Rio Arriba

[11] 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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320.00	Y	U	Unitization

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

16

[17] OPERATOR CERTIFICATION

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

Signature

Printed Name HEATHER DAHLGREN

Title ENGINEERING TECHNICIAN

Date 3-17-98

[18] 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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-06975	72319	BLANCO MESAVERDE

[4] Property Code	[5] Property Name	[6] Well Number
011510	RINCON UNIT	137

[7] OGRID No.	[8] Operator Name	[9] Elevation
023708	UNION OIL COMPANY OF CALIFORNIA (UNOCAL)	6750'

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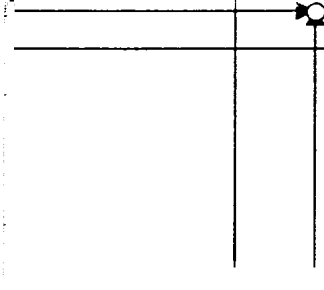
16



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Title **ENGINEERING TECHNICIAN**

Date **3-17-98**

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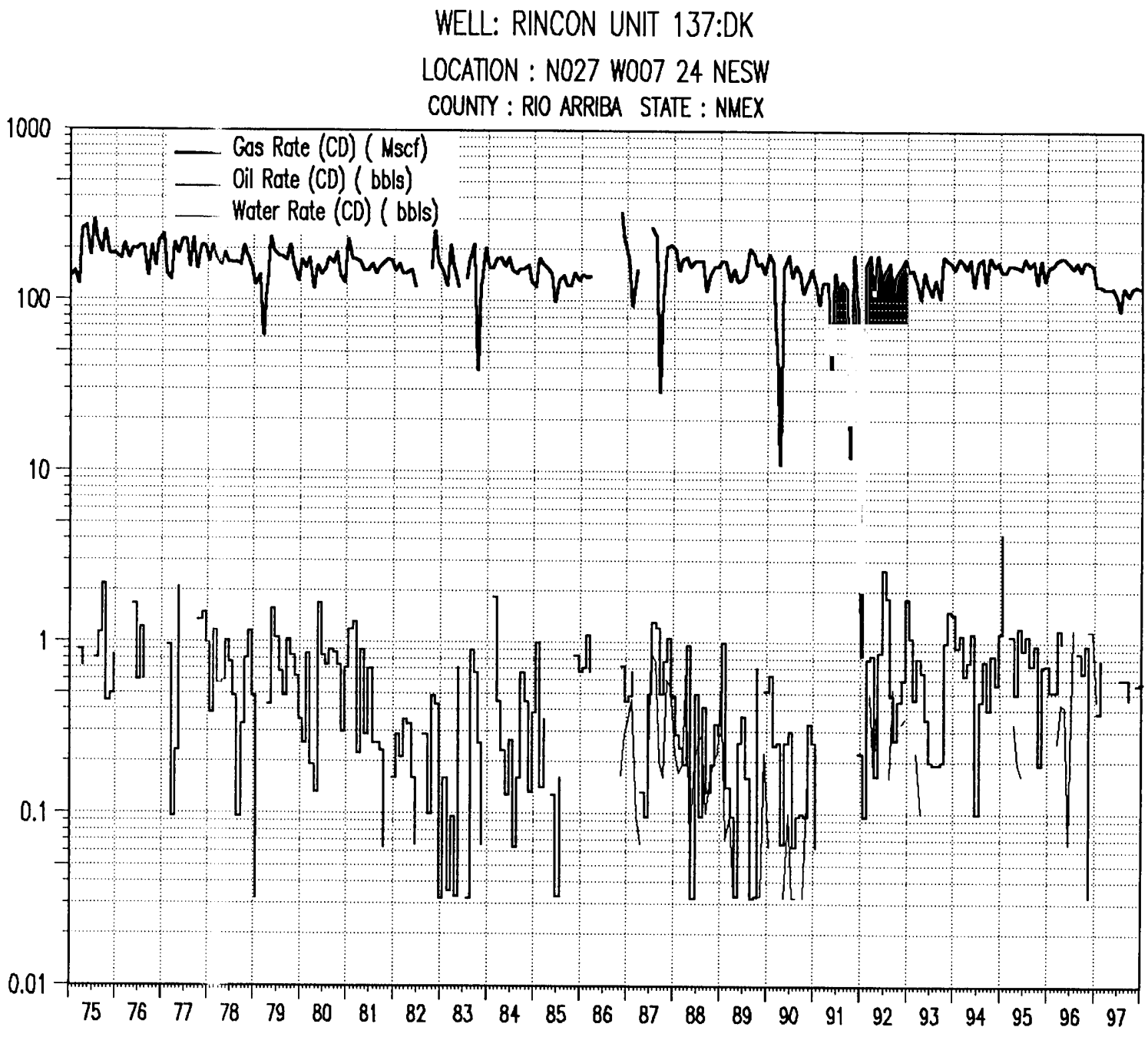
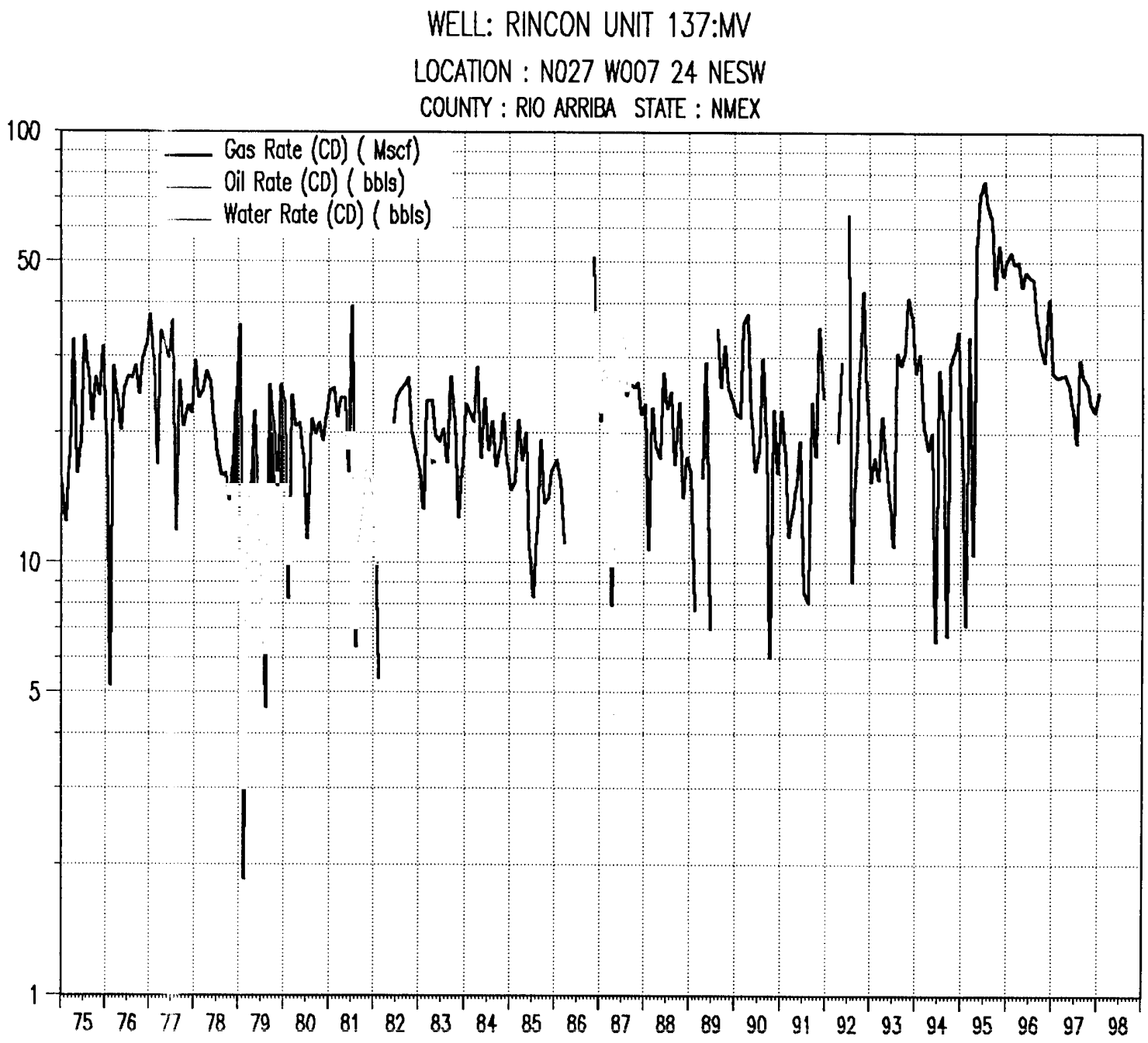

WELL: RINCON UNIT 137:DK
LOCATION : N027 W007 24 NESW
COUNTY : RIO ARRIBA STATE : NMEX
Gas Rate (CD) (Mscf)
Oil Rate (CD) (bbls)
Water Rate (CD) (bbls)
1000
100
10
1
0.1
0.01
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97

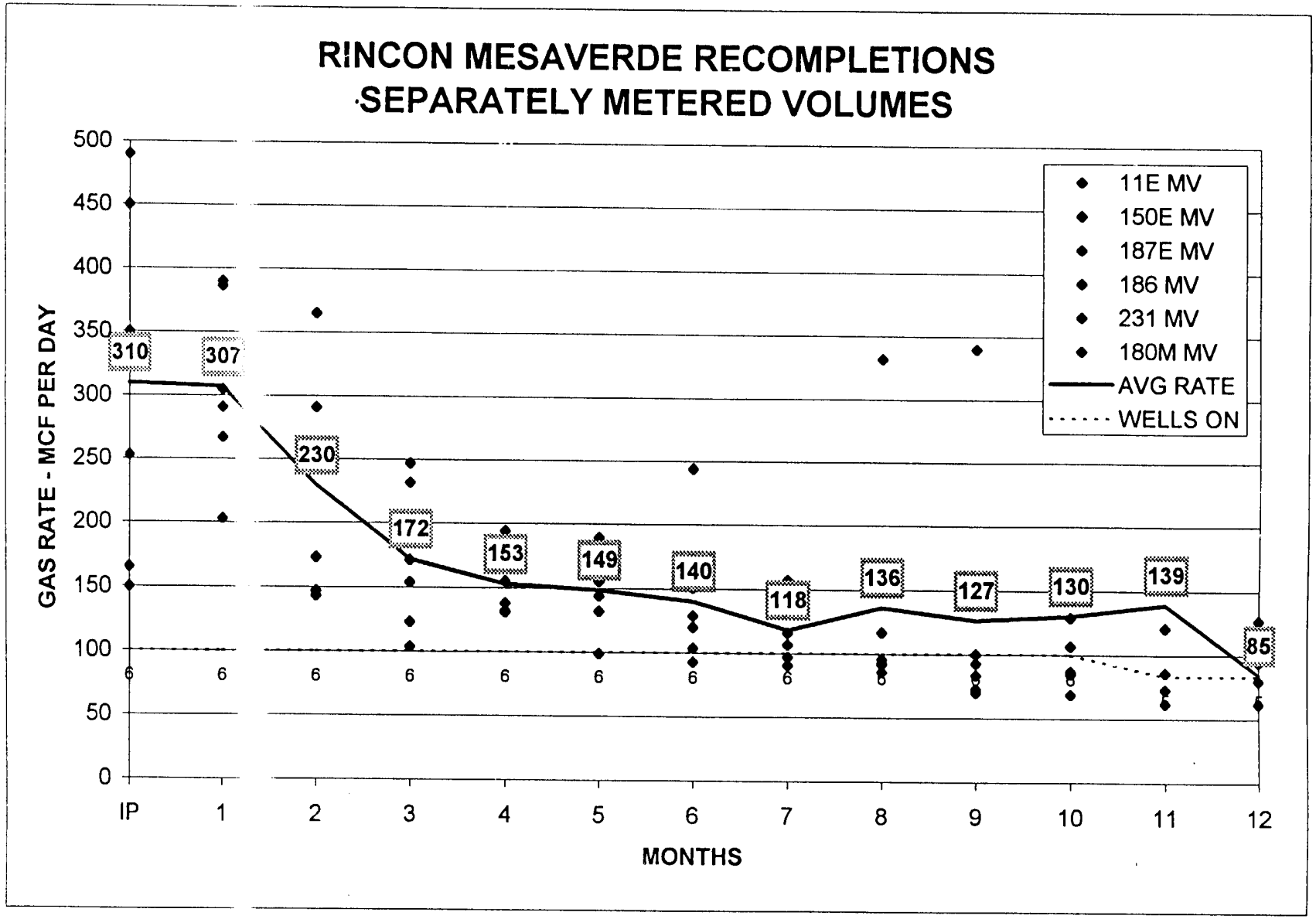
WELL: RINCON UNIT 137:DK
LOCATION : N027 W007 24 NESW
COUNTY : RIO ARRIBA STATE : NMEX

DATE	DAYS ON PROD Days	OIL VOL PROD bbls	GAS VOL PROD Mscf	WATER VOL PROD bbls	OIL RATE (PD) bbls	GAS RATE (PD) Mscf	WATER RATE (PD) bbls	CUM OIL PROD bbls	CUM GAS PROD Mscf
9601	31	16	4957	0	0.5	160	0.0	8827	2506342
9602	29	15	4798	0	0.5	165	0.0	8842	2511140
9603	31	37	5468	8	1.2	176	0.3	8879	2516608
9604	27	30	5450	13	1.1	202	0.5	8909	2522058
9605	31	0	5552	13	0.0	179	0.4	8909	2527610
9606	30	26	5082	2	0.9	169	0.1	8935	2532692
9607	31	0	4883	37	0.0	158	1.2	8935	2537575
9608	31	27	5244	0	0.9	169	0.0	8962	2542819
9609	25	20	4528	0	0.8	181	0.0	8982	2547347
9610	31	30	5359	0	1.0	173	0.0	9012	2552706
9611	30	1	5082	35	0.0	169	1.2	9013	2557788
9612	31	0	5012	36	0.0	162	1.2	9013	2562800
9701	31	12	3842	14	0.4	124	0.5	9025	2566642
9702	28	22	3480	0	0.8	124	0.0	9047	2570122
9703	31	0	3709	31	0.0	120	1.0	9047	2573831
9704	30	25	3578	0	0.8	119	0.0	9072	2577409
9705	30	0	3745	0	0.0	125	0.0	9072	2581154
9706	30	0	3266	0	0.0	109	0.0	9072	2584420
9707	17	19	2765	0	1.1	163	0.0	9091	2587185
9708	19	19	3758	0	1.0	198	0.0	9110	2590943
9709	19	14	3291	0	0.7	173	0.0	9124	2594234
9710	19	0	3758	0	0.0	198	0.0	9124	2597992
9711	19	17	3700	0	0.9	195	0.0	9141	2601692
9712	19	18	3757	0	0.9	198	0.0	9159	2605449


WELL: RINCON UNIT 137:MV
LOCATION : N027 W007 24 NESW
COUNTY : RIO ARRIBA STATE : NMEX
Gas Rate (CD) (Mscf)
Oil Rate (CD) (bbls)
Water Rate (CD) (bbls)
100
50
10
5
1
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98

WELL: RINCON UNIT 137:MV
LOCATION : N027 W007 24 NESW
COUNTY : RIO ARRIBA STATE : NMEX

DATE	DAYS ON PROD Days	OIL VOL PROD bbls	GAS VOL PROD Mscf	WATER VOL PROD bbls	OIL RATE (PD) bbls	GAS RATE (PD) Mscf	WATER RATE (PD) bbls	CUM OIL PROD bbls	CUM GAS PROD Mscf
9601	31	0	1567	0	0.0	51	0.0	755	331573
9602	29	0	1526	0	0.0	53	0.0	755	333099
9603	31	0	1537	0	0.0	50	0.0	755	334636
9604	25	0	1497	0	0.0	60	0.0	755	336133
9605	31	0	1357	0	0.0	44	0.0	755	337490
9606	30	0	1420	0	0.0	47	0.0	755	338910
9607	31	0	1429	0	0.0	46	0.0	755	340339
9608	31	0	1410	0	0.0	45	0.0	755	341749
9609	25	0	1091	0	0.0	44	0.0	755	342840
9610	31	0	977	0	0.0	32	0.0	755	343817
9611	30	0	882	0	0.0	29	0.0	755	344699
9612	31	0	1264	0	0.0	41	0.0	755	345963
9701	31	0	854	0	0.0	28	0.0	755	346817
9702	28	0	755	0	0.0	27	0.0	755	347572
9703	31	0	843	0	0.0	27	0.0	755	348415
9704	30	0	822	0	0.0	27	0.0	755	349237
9705	30	0	808	0	0.0	27	0.0	755	350045
9706	30	0	687	0	0.0	23	0.0	755	350732
9707	11	0	590	0	0.0	54	0.0	755	351322
9708	15	0	914	0	0.0	61	0.0	755	352236
9709	14	0	804	0	0.0	57	0.0	755	353040
9710	14	0	808	0	0.0	58	0.0	755	353848
9711	14	0	698	0	0.0	50	0.0	755	354546
9712	14	0	697	0	0.0	50	0.0	755	355243


RINCON MESAVERDE RECOMPLETIONS
SEPARATELY METERED VOLUMES
GAS RATE - MCF PER DAY
500
450
400
350
300
250
200
150
100
50
0
IP
1
2
3
4
5
6
7
8
9
10
11
12
MONTHS
310
307
230
172
153
149
140
118
136
127
130
139
85
11E MV
150E MV
187E MV
186 MV
231 MV
180M MV
AVG RATE
WELLS ON

--BHPCALC--

Calculated BHP and Z-factor from surface shut-in pressure

TEST DATE: Jul-97

WELL NAME :	**Rincon Unit 137 DK (Current Pressure)**			
GAS GRAVITY:	0.68	% N2	0.21	
CONDENSATE (YES=1):	1	% CO2	1.12	%
RESERVOIR TEMP:	195 F	% H2S	0.00	%
SURFACE TEMP:	60 F	Pc =	670.69	%
DEPTH OF ZONE:	7505 Foot	Tc =	377.11	

SURFACE PRES	BHP	Z	BHP/Z
Psia	psia		psia
370	439	0.9618	457

Current pressure obtained after 5 day shut-in.

--BHPCALC--

Calculated BHP and Z-factor from surface shut-in pressure

TEST DATE: Jan-60

WELL NAME : **Rincon Unit 137 DK (Original Pressure)**

GAS GRAVITY:	0.68		% N2	0.21
CONDENSATE (YES=1):	1		% CO2	1.12 %
RESERVOIR TEMP:	195	F	% H2S	0.00 %
SURFACE TEMP:	60	F	Pc =	670.69 %
DEPTH OF ZONE:	7505	Foot	Tc =	377.11

SURFACE PRES	BHP	Z	BHP/Z
Psia	psia		psia
3349	2,884	0.8859	3,255

Initial pressure obtained after 19 day shut-in following completion of well.

--BHPCALC--

Calculated BHP and Z-factor from surface shut-in pressure

TEST DATE: Jul-97

WELL NAME : **Rincon Unit 137 MV (Current Pressure)**

GAS GRAVITY:	0.74		% N2	0.44
CONDENSATE (YES=1):	1		% CO2	0.60 %
RESERVOIR TEMP:	145	F	% H2S	0.00 %
SURFACE TEMP:	60	F	Pc =	663.49 %
DEPTH OF ZONE:	5526	Foot	Tc =	391.88

SURFACE PRES	BHP	Z	BHP/Z
Psia	psia		psia
205	236	0.9680	244

Current pressure obtained following 5 day shut-in.

--BHPCALC--

Calculated BHP a Z-factor from surface shut-in pressure

TEST DATE: Jan-60

WELL NAME :	**Rincon Unit 137 MV (Initial Pressure)**			
GAS GRAVITY:	0.74		% N2	0.44
CONDENSATE (YES=1	1		% CO2	0.60 %
RESERVOIR TEMP:	145	F	% H2S	0.00 %
SURFACE TEMP:	60	F	Pc =	663.49 %
DEPTH OF ZONE:	5526	Foot	Tc =	391.88

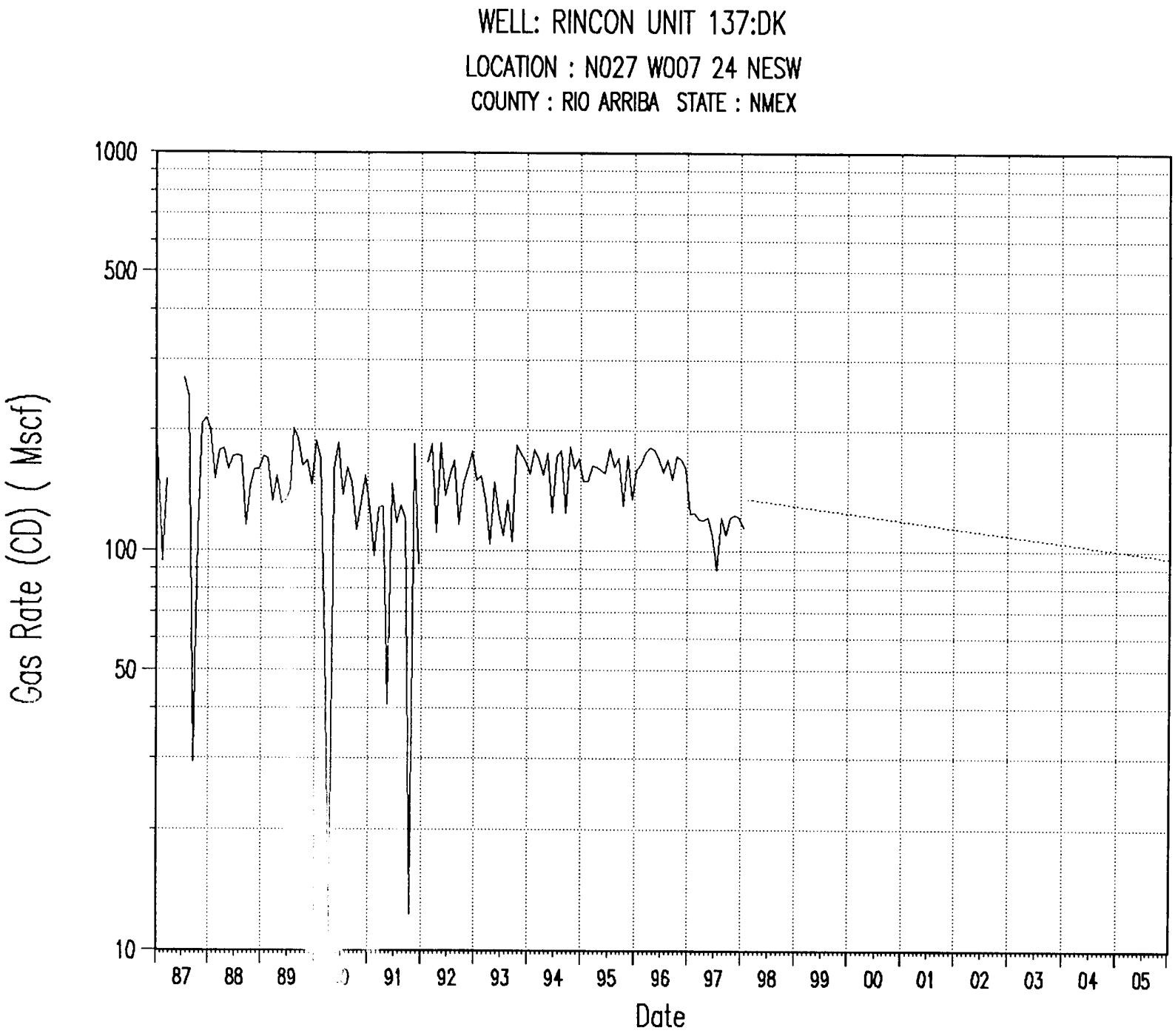
SURFACE PR	BHP	Z	BHP/Z
Psia	psia		psia
108	1,282	0.8451	1,517

Initial pressure ined after 9 day shut-in following completion of wel

Well	RU 137	
Existing Completion Prior to DHC	DK	
Annual Decline	4.23%	
Monthly Decline Factor (Annual / 12)	0.3521	
Average 3 month volume (Mcf) prior to DHC	3668	Nov 97 - Jan 98
Average Yield (bbls/mcf) Oil	0.0034	97 annual average
Average Yield (bbls/mcf) Water	0.0011	97 annual average
Volume Prior to DHC (Mcf)		

* Forecasted volume to be adjusted for actual days on production

Month	DK Forecast (Mcf)	DK Forecast (Bbls-Oil)	DK Forecast (Bbls-Water)	
1	4720	16.0	5.2	+ DK flush volume
2	4514	15.3	5.0	+ DK flush volume
3	4104	14.0	4.5	
4	4090	13.9	4.5	
5	4075	13.9	4.5	
6	4061	13.8	4.5	
7	4046	13.8	4.5	
8	4032	13.7	4.4	
9	4018	13.7	4.4	
10	4004	13.6	4.4	
11	3990	13.6	4.4	
12	3976	13.5	4.4	
13	3962	13.5	4.4	
14	3948	13.4	4.3	
15	3934	13.4	4.3	
16	3920	13.3	4.3	
17	3906	13.3	4.3	
18	3892	13.2	4.3	
19	3879	13.2	4.3	
20	3865	13.1	4.3	
21	3852	13.1	4.2	
22	3838	13.0	4.2	
23	3824	13.0	4.2	
24	3811	13.0	4.2	


WELL: RINCON UNIT 137:DK
LOCATION : N027 W007 24 NESW
COUNTY : RIO ARRIBA STATE : NMEX
1000
500
100
50
10
Gas Rate (CD) (Mscf)
87
88
89
91
92
93
94
95
96
97
98
99
00
01
02
03
04
05
Date

WELL: RINCON UNIT 137:DK

Cum. Gas Production:	2608997.00	Mscf
Remaining Recoverable Gas Reserves:	780745.69	Mscf
Ultimate Recoverable Gas Reserves:	3389742.69	Mscf

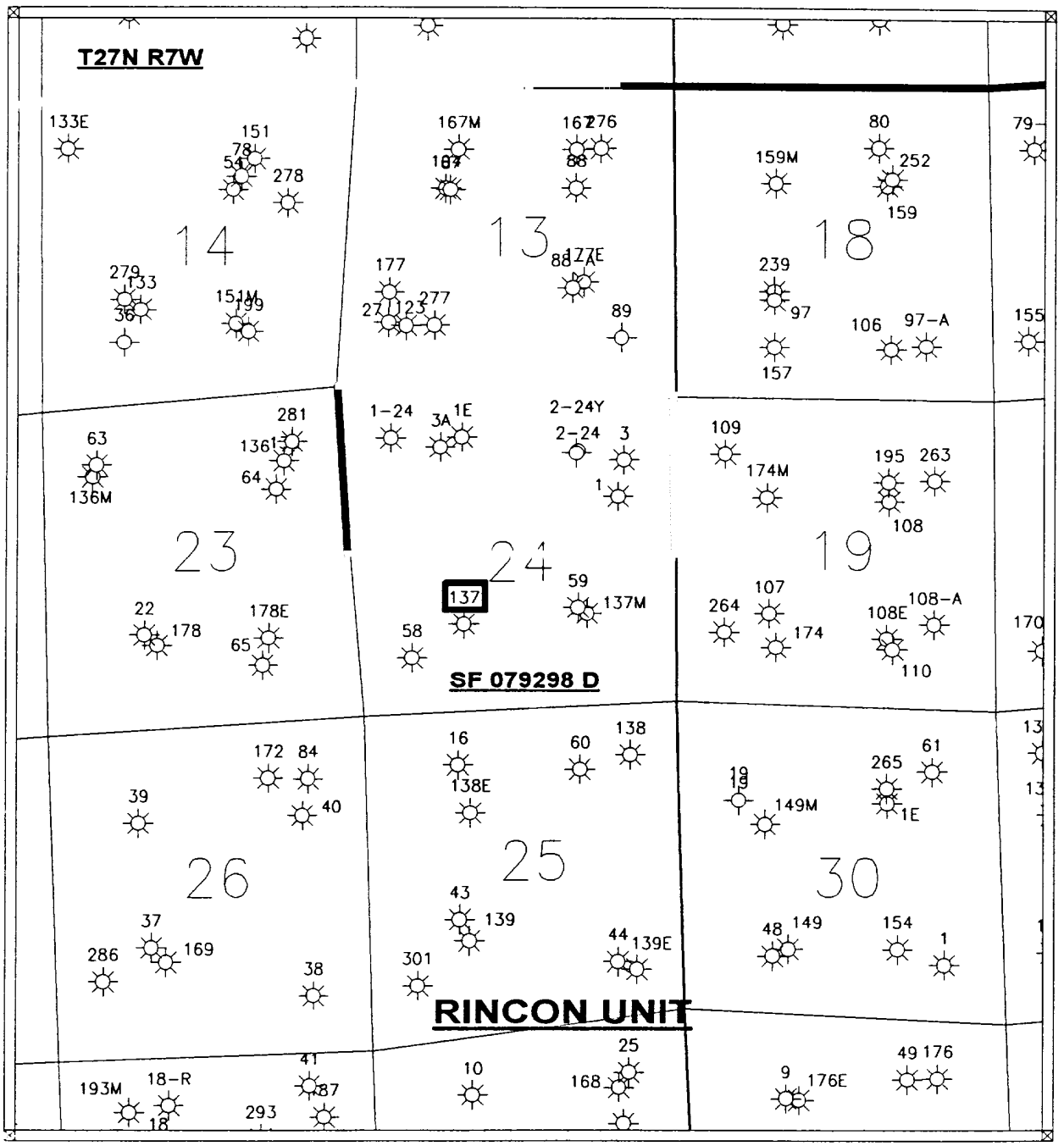
SCHEDULE 1

Qi:	364.43	Mscf
Di:	0.003598	
Hyperbolic B:	0.0000	
Start Date:	1998/02	
Monthly Nominal Decline (Dn):	0.003598	
Monthly Effective Decline (De):	0.003592	
Yearly Effective Decline (De):	0.042257	
Initial Forecast Rate:	135.00	Mscf
Economic Limit:	25.00	Mscf
Cumulative Produced:	2608997.00	Mscf
Total Forecasted Reserves:	780745.70	Mscf
Total Recovered Reserves:	3389742.70	Mscf

DATE	AVERAGE DAILY RATE Mscf	MONTHLY FORECAST PROD. Mscf	CUM. PROD. Mscf	REMAINING RECOV. RESERVES Mscf
1998/02	134.76	3773.24	2612770.25	776972.44
1998/03	134.27	4162.39	2616932.75	772810.06
1998/04	133.79	4013.74	2620946.25	768796.31
1998/05	133.31	4132.68	2625079.00	764663.63
1998/06	132.83	3984.99	2629064.00	760678.63
1998/07	132.35	4102.97	2633167.00	756575.69
1998/08	131.88	4088.24	2637255.25	752487.44
1998/09	131.40	3942.12	2641197.50	748545.31
1998/10	130.94	4059.06	2645256.50	744486.25
1998/11	130.46	3913.87	2649170.25	740572.38
1998/12	130.00	4029.88	2653200.25	736542.50
1999/01	129.53	4015.28	2657215.50	732527.25
1999/02	129.06	3613.76	2660829.25	728913.44
1999/03	128.60	3986.62	2664815.75	724926.88
1999/04	128.14	3844.15	2668660.00	721082.69
1999/05	127.68	3957.96	2672618.00	717124.75
1999/06	127.22	3816.61	2676434.50	713308.13
1999/07	126.76	3929.56	2680364.00	709378.56
1999/08	126.31	3915.56	2684279.75	705463.00
1999/09	125.85	3775.58	2688055.25	701687.44
1999/10	125.40	3887.43	2691942.75	697800.00
1999/11	124.95	3748.48	2695691.25	694051.50
1999/12	124.50	3859.55	2699550.75	690191.94
2000/01	124.05	3845.69	2703396.50	686346.25
2000/02	123.61	3584.66	2706981.00	682761.63
2000/03	123.17	3818.15	2710799.25	678943.44
2000/04	122.72	3681.69	2714481.00	675261.75

2000/05	122.28	3790.73	2718271.75	671471.06

DATE	AVERAGE DAILY RATE Mscf	MONTHLY FORECAST PROD. Mscf	CUM. PROD. Mscf	REMAINING RECOV. RESERVES Mscf
2000/06	121.84	3655.28	2721927.00	667815.75
2000/07	121.41	3763.59	2725690.50	664052.19
2000/08	120.97	3750.05	2729440.50	660302.13
2000/09	120.53	3616.03	2733056.50	656686.13
2000/10	120.10	3723.16	2736779.75	652962.94
2000/11	119.67	3590.08	2740369.75	649372.88
2000/12	119.24	3696.47	2744066.25	645676.38
2001/01	118.81	3683.19	2747749.50	641993.19
2001/02	118.39	3314.83	2751064.25	638678.38
2001/03	117.96	3656.77	2754721.00	635021.63
2001/04	117.54	3526.08	2758247.25	631495.50
2001/05	117.11	3630.55	2761877.75	627865.00
2001/06	116.69	3500.83	2765378.50	624364.13
2001/07	116.27	3604.52	2768983.00	620759.63
2001/08	115.86	3591.56	2772574.50	617168.06
2001/09	115.44	3463.23	2776037.75	613704.88
2001/10	115.03	3565.86	2779603.75	610139.00
2001/11	114.61	3438.42	2783042.00	606700.56
2001/12	114.20	3540.22	2786582.25	603160.38
2002/01	113.79	3527.53	2790110.00	599632.81
2002/02	113.38	3174.77	2793284.75	596458.06
2002/03	112.98	3502.23	2796787.00	592955.81
2002/04	112.57	3377.11	2800164.00	589578.69
2002/05	112.17	3477.13	2803641.00	586101.56
2002/06	111.76	3352.86	2806994.00	582748.75
2002/07	111.36	3452.20	2810446.25	579296.50
2002/08	110.96	3439.84	2813886.00	575856.69
2002/09	110.56	3316.86	2817203.00	572539.81
2002/10	110.17	3415.13	2820618.00	569124.69
2002/11	109.77	3293.14	2823911.25	565831.56
2002/12	109.38	3390.67	2827301.75	562440.88
2003/01	108.98	3378.45	2830680.25	559062.44



Scale 1:31308.12

1000. 0. 1000. 2000. 3000. 4000. 5000. feet

0.1 0. 0.1 0.2 0.3 0.4 0.5 miles

N

SPIRIT ENERGY 76

OFFSET DATA & LEASE
RINCON UNIT NO. 137
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	Scale 1:31308.12	
Sandra M. Thoma	3/19/98	RU137.CPF