

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

APPLICATION FOR DOWNHOLE COMMINGLING EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

SAN JUAN 27-5 UNIT

100

M-1-27N-05W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County
Spacing Unit Lease Types: (check 1 or more)OGRID NO. 14538 Property Code 7475 API NO. 30-39-0811400 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	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	6041-6588'		8487-8664'
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	(Current) a. 639 psi (Original) b. 1318 psi	a. b.	a. 1032 psi b. 3158 psi
6. Oil Gravity (°API) or Gas BTU Content	BTU 1199		BTU 1140
7. Producing or Shut-In?	not yet producing		producing
Production Marginal? (yes or no)	yes		yes
* If Shut-In 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: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: 9/97 Rates: 70 MCFD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

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. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10694

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 Jennifer L. Dobson TITLE Production Engineer DATE 01-26-98TYPE OR PRINT NAME Jennifer L. Dobson TELEPHONE NO. (505) 599-4026

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator EL PASO NATURAL GAS COMPANY		Lease SAN JUAN 27-5 UNIT		Well No. SF-079491		100	
Unit Letter M	Section 1	Township 27-N	Range 5-W	County RIO ARriba			
Actual Footage Location of Well: 1090 feet from the SOUTH line and 825 feet from the WEST line							
Ground Level Elev. 7431		Producing Formation DAKOTA		Pool BASIN DAKOTA		Dedicated Acreage 320.00 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communization, unitization, force-pooling, etc?

☒ Yes No If answer is "yes," type of consolidation **Unitization**

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary)

No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

Original Signed **F. H. WOOD**

Name

Petroleum Engineer
Position

El Paso Natural Gas Company
Company

September 9, 1966
Date

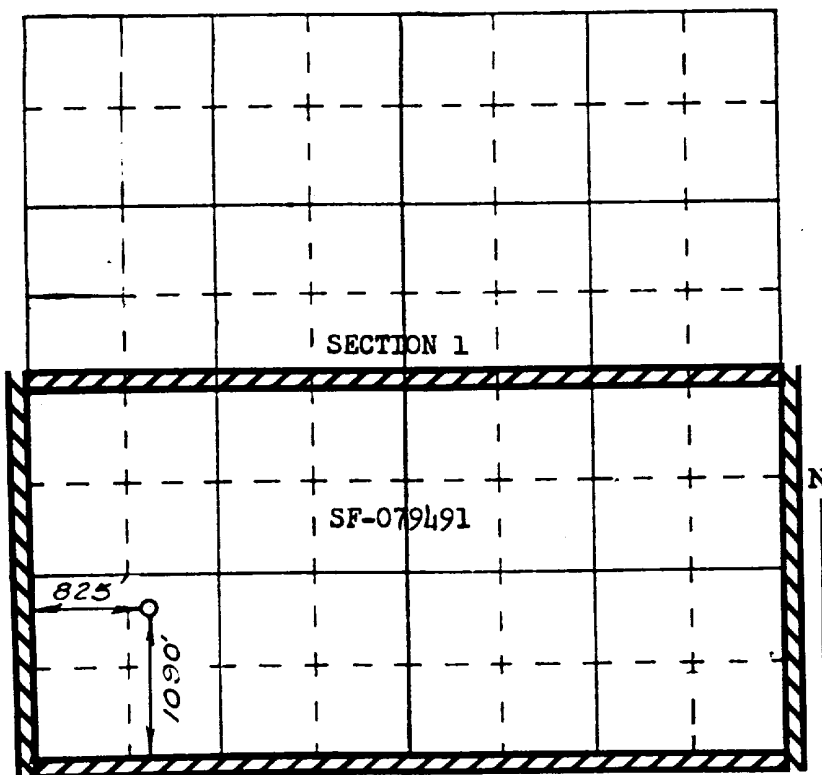
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

AUGUST 3, 1966

Registered Professional Engineer
and/or Land Surveyor

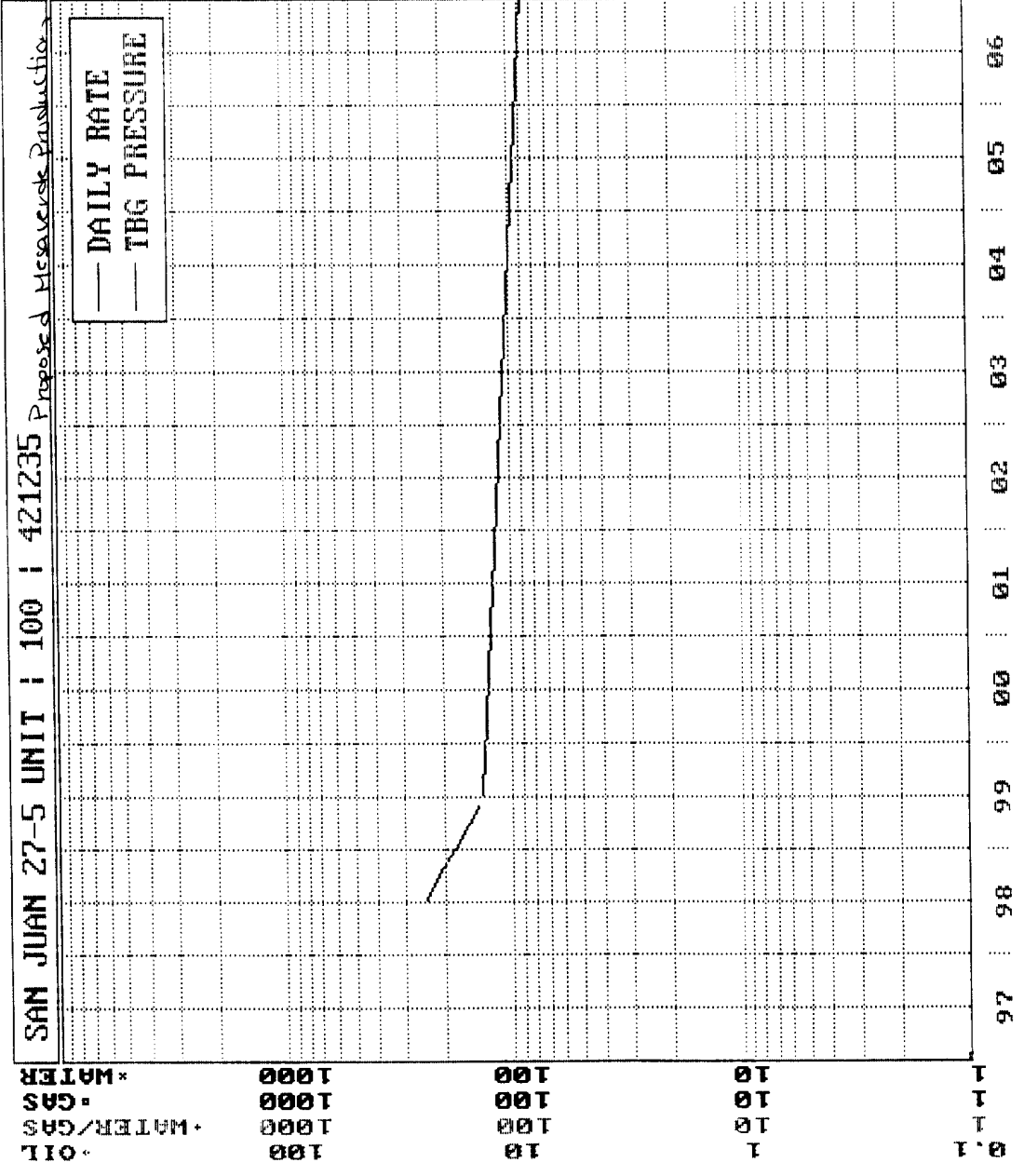
David O. Walker
Certificate No. **1760**

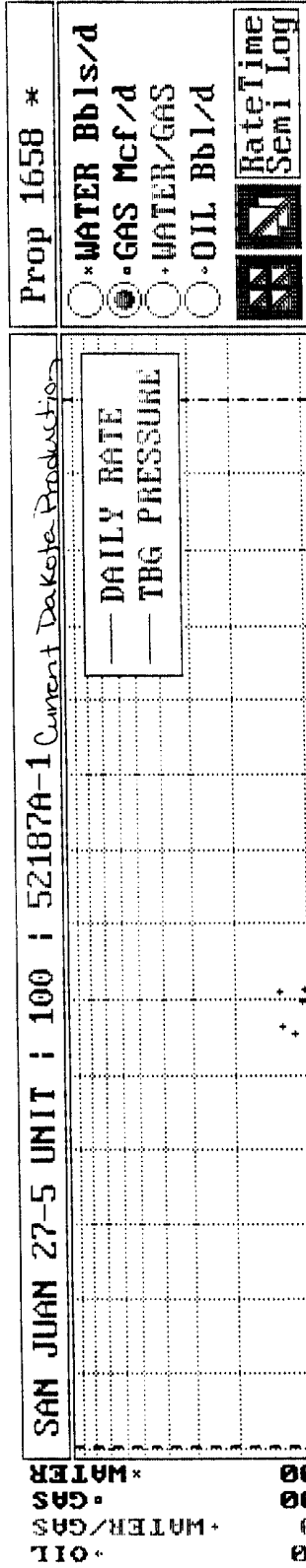


Prop 67

☐ *WATER Bbls/d
☒ *GAS Mcf/d
☐ *WATER/GAS
☐ *OIL Bbl/d

☒ RateTime
☒ Semi Log





FARMINGTON

1997 MONTHLY PRODUCTION FOR 52187A

PHS030M

SAN JUAN 27-5 UNIT

100

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

			DAYS =====		OIL =====		=====		GAS =====				
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD
1	2	S		02			01				15.025		
2	2	S		02			01				15.025		
3	2	S		02			01				15.025		
4	2	S		02		60.0	01				15.025		
5	2	S		02			01				15.025		
6	2	S		02			01				15.025		
7	2	F	1	02	1		01	3	1		15.025		
8	2	F	31	02			01	92	31		15.025		1
9	2	F	30	02			01	89	30		15.025		
10													
11													
12													

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTIC

00/00/00 00:00:00:0

PRS 11/05/97

San Juan 27-5 #100
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesa Verde		Dakota	
<u>MV - Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.69	GAS GRAVITY	0.656
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.22	%N2	0.17
%CO2	0.91	%CO2	1.23
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	6369	DEPTH (FT)	8576
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150	BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	544	SURFACE PRESSURE (PSIA)	843
BOTTOMHOLE PRESSURE (PSIA)	638.7	BOTTOMHOLE PRESSURE (PSIA)	1031.5
The Mesa Verde Pressures are from the San Juan 27-5 #14 which is an offset MV producer.			
<u>MV - Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.69	GAS GRAVITY	0.656
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.22	%N2	0.17
%CO2	0.91	%CO2	1.23
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	6369	DEPTH (FT)	8576
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150	BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1105	SURFACE PRESSURE (PSIA)	2538
BOTTOMHOLE PRESSURE (PSIA)	1317.9	BOTTOMHOLE PRESSURE (PSIA)	3157.5
The Mesa Verde Pressures are from the San Juan 27-5 #14 which is an offset MV producer.			

Page No.: 1
 Print Time: Thu Nov 20 16:08:08 1997
 Property ID: 3822
 Property Name: SAN JUAN 27-5 UNIT | 14 | 51847A-1 Mesaverde Pressure History
 Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
 ::::Mcf:::: ::Psi::

02/17/56	0	0.0	
03/01/56	0	1105.0	<i>original</i>
05/01/56	0	1117.0	
05/06/58	87000	821.0	
06/14/59	110000	892.0	
06/14/60	181000	715.0	
06/13/61	245000	666.0	
07/31/62	299000	604.0	
07/18/63	345000	639.0	
01/02/64	354000	684.0	
07/29/65	420000	633.0	
08/01/66	466000	625.0	
08/04/67	498000	609.0	
05/10/68	526000	624.0	
06/09/70	567498	546.0	
05/03/71	602183	532.0	
05/30/72	640880	518.0	
08/07/74	724632	501.0	
06/25/76	784451	524.0	
08/02/78	839073	596.0	
11/01/82	933294	599.0	
04/07/86	998146	566.0	
08/07/89	1062421	638.0	
05/20/91	1092634	612.0	
06/21/91	1092634	624.0	
05/03/93	1141866	544.0	<i>current</i>

Page No.: 1

Print Time: Thu Nov 20 16:08:22 1997

Property ID: 1658

Property Name: SAN JUAN 27-5 UNIT | 100 | 52187A-1 Dakota Pressure History

Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- ---CUM_GAS-- M SIWHP
Mcf Psi

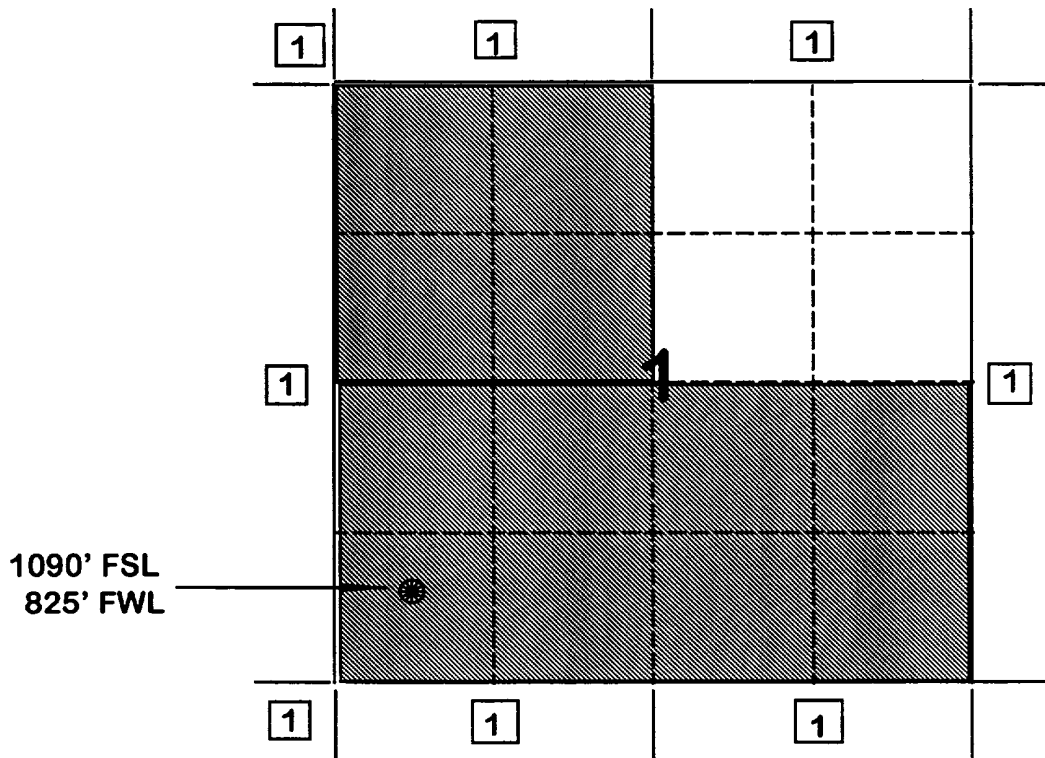
12/08/66	0	2538.0	original
10/31/67	80000	1376.0	
05/10/68	126000	1207.0	
05/29/69	196077	1196.0	
06/23/69	203000	1196.0	
06/09/70	264396	1054.0	
05/03/71	311831	1229.0	
05/30/72	363372	1119.0	
06/23/75	500828	1157.0	
07/06/77	579920	1185.0	
10/15/79	649573	1117.0	
05/21/81	700153	1081.0	
09/22/83	766219	1098.0	
06/06/85	818852	935.0	
05/20/88	888760	1157.0	
05/29/90	955934	843.0	current.

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-5 Unit #100
Offset Operator/Owner Plat**

Mesaverde (W/2) / Dakota (S/2) Formations Commingle Well

Township 27 North, Range 5 West



1) Burlington Resources

DATE: November 03, 1997

NAME: SAN JUAN 27-5 UNIT 100

FORM: MESAVERDE

LOCATION

UNIT: M

SEC: 1

TWN: 27N

RNG: 5W

T 28 N		
7/67 San Juan 28-5 Unit 53 244/966 (97) 1/0 [35] 6/60 San Juan 28-5 Unit 21 51/1211 (97) 0/0 7/97 San Juan 28-5 Unit 73M 783/24 (97) 3/0	11/60 San Juan 28-5 Unit 47 320/1413 (97) 2/5 7/97 San Juan 28-5 Unit 45M 348/21 (97) 2/0 [36]	4/57 San Juan 28-4 Unit 11 100/1547 (97) [31] 0/0 9/58 San Juan 28-4 Unit 18 288/1536 (97) 0/5
T 27 N		
5/90 San Juan 27-5 Unit 23A 225/413 (97) 0/1 12/69 San Juan 27-5 Unit 23 52/1722 (97) 0/6 1/55 San Juan 27-5 Unit 7 218/934 (97) 1/0 [2] 4/97 San Juan 27-5 Unit 111M 343/31 (97) 0/0 5/57 San Juan 27-5 Unit 22 25/1146 (97) 0/0 San Juan 27-5 Unit 100 DK	6/60 San Juan 27-5 Unit 55 213/447 (97) 0/0 12/96 San Juan 27-5 Unit 100M 189/86 (97) 1/0 [1] 10/60 San Juan 27-4 Unit 24 180/990 (97) 0/0 7/58 San Juan 27-4 Unit 15 108/1244 (97) 0/0 [6] 3/81 San Juan 27-4 Unit 15A 193/647 (97) 1/3	11/77 San Juan 27-4 Unit 123 168/828 (97) 1/3 [7]
R-5-W		
10/84 San Juan 27-5 Unit 99E 92/709 (97) 0/3 [11] 5/97 San Juan 27-5 Unit 105M 350/42 (97) 1/0	10/62 San Juan 27-5 Unit 88 89/1243 (97) 0/4 [12] INA 3/63 San Juan 27-5 Unit 39 37/829 (95) 0/0 2/87 San Juan 27-5 Unit 102M 135/376 (97) 0/1 7/61 San Juan 27-4 Unit 31 105/1253 (97) 0/4	11/77 San Juan 27-4 Unit 123 168/828 (97) 1/3 [7]
R-4-W		

LEGEND

COMPLETION DATE

WELL NAME

MCF/D-CUM(MMF)

BOP/D-CUM(MBO)

