

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 27-4 Unit

3A

M 15-27N-04W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7452 API NO. 30-039-25915 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	Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION		WILL BE SUPPLIED UPON COMPLETION
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	(Current) a. 842 (Original) b. 1214		a. 1110 b. 2308
6. Oil Gravity (°API) or Gas BTU Content	BTU 1206		BTU 1147
7. Producing or Shut-In?	Shut-in		Shut-in
Production Marginal? (yes or no)	no		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: n/a Rates:
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. 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 Jennifer Dobson TITLE Production Engineer DATE 08-17-98TYPE OR PRINT NAME Jennifer Dobson TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 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	
4 Property Code		5 Property Name SAN JUAN 27-4 UNIT			6 Well Number # 3A
7 OGRID No.		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			9 Elevation 6864

10 Surface Location

UL or Lot No. I	Section 15	Township 27 N	Range 4 W	Lot Idn	Feet from the 2145	North/South line SOUTH	Feet from the 630	East/West line EAST	County RIO ARRIBA
---------------------------	----------------------	-------------------------	---------------------	---------	------------------------------	----------------------------------	-----------------------------	-------------------------------	-----------------------------

11 Bottom Hole Location If Different From Surface

12 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
13 Dedicated Acres		14 Joint or Infill		15 Consolidation Code		16 Order No.			

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

14 5280'(R) RECEIVED SEP 23 1998 OIL CON. DIV. DIST. 3 15 5273'(R)		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 _____ Title _____ Date _____	
		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 supervision, and that the same is true and correct to the best of my belief. April 29, 1998 Date of Survey Signature and Seal of Professional Surveyor  7016 Certificate Number	

(R) - GLO Record

SJ 27-4 #3A
 Bottom Hole Pressures
 Cullender and Smith Method
 Version 1.0 3/13/94

Parent Well

Parent Well

Mesaverde	Dakota
<u>MV-Current</u>	<u>DK-Current</u>
GAS GRAVITY 0.694 COND. OR MISC. (C/M) C %N2 0.18 %CO2 0.88 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) 6119 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 127 FLOWRATE (MCFPD) 278 SURFACE PRESSURE (PSIA) 713 BOTTOMHOLE PRESSURE (PSIA) 842.0	GAS GRAVITY 0.662 COND. OR MISC. (C/M) C %N2 0.14 %CO2 1.31 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) 8073 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 149 FLOWRATE (MCFPD) 672 SURFACE PRESSURE (PSIA) 897 BOTTOMHOLE PRESSURE (PSIA) 1109.8
<u>MV-Original</u>	<u>DK-Original</u>
GAS GRAVITY 0.694 COND. OR MISC. (C/M) C %N2 0.18 %CO2 0.88 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) 6119 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 127 FLOWRATE (MCFPD) 278 SURFACE PRESSURE (PSIA) 1019 BOTTOMHOLE PRESSURE (PSIA) 1213.7	GAS GRAVITY 0.662 COND. OR MISC. (C/M) C %N2 0.14 %CO2 1.31 %H2S 0 DIAMETER (IN) 2 DEPTH (FT) 8073 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 149 FLOWRATE (MCFPD) 672 SURFACE PRESSURE (PSIA) 1837 BOTTOMHOLE PRESSURE (PSIA) 2308.0

Page No.: 2

Print Time: Wed Aug 12 09:27:50 1998

Property ID: 1280

Property Name: SAN JUAN 27-4 UNIT | 7 | 49580A-1 *OK*

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE--	---CUM_GAS--	M FWHP-	M FBHP-	M SIWHP	M SIBHP
#####	#####Mcf#####	###Psi###	###Psi###	###Psi###	###Psi###
06/26/56	0	0.0	<i>orig</i>	1837.0	2199.0
08/02/56	0			1836.0	
06/14/59	85000			1242.0	
09/22/60	116000			1244.0	
06/13/61	138000			1186.0	
07/31/62	188000			1038.0	
01/07/63	207000			1078.0	
01/02/64	244000			1091.0	
07/29/65	312000			998.0	
08/01/66	354000			693.0	
08/04/67	398000			936.0	
09/23/68	448000			944.0	
06/09/70	521759	479.0		710.0	837.0
07/30/71	565772	439.0		711.0	838.0
05/30/72	595584	364.0		929.0	1099.0
06/09/75	712411	266.0		912.0	1079.0
08/01/77	807884	247.0		887.0	1049.0
10/15/79	890610	279.0		879.0	1039.0
11/02/81	957297	385.0		897.0	1061.0
09/22/83	993331	288.0		970.0	1149.0
01/06/86	1049929	251.0	<i>curr</i>	897.0	1061.0

DK

** DATA AT 14.730 PSIG UNLESS NOTED **

	MOL %	GPM (AT 14.73)
HYDROGEN	_____	
HELIUM	_____	
NITROGEN	___0.14	
OXYGEN	_____	
HYDROGEN SULFIDE	_____	
CARBON DIOXIDE	___1.31	
METHANE	___87.62	
ETHANE	___6.55	1.7521
PROPANE	___2.21	0.6091
ISO-BUTANE	___0.52	0.1701
N-BUTANE	___0.58	0.1829
ISO-PENTANE	___0.32	0.1171
N-PENTANE	___0.23	0.0833
HEXANE	_____	
HEXANE PLUS	___0.52	0.2269
HEPTANE PLUS	_____	
TOTALS	100.00	3.1415

MP NUMBER 71408

EFFECTIVE DATE 19980601

-- GASOLINE CONTENT (GPM) --

26/70 GASOLINE _____

100% PROPANE _____

EXCESS BUTANES _____

TOTAL

----- SPECIFIC GRAVITY -----

CALCULATED - _0.6620

MEASURED _____

SULPHUR GRAINS / 100 CU FT _____

03=MAIN SCREEN

24=HELP

PA1=TERMINATE

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 3119

0008 CHROMATOGRAPH TEST MAIN SCREEN

10:04:53.5 08/12/98

FUNCTION (A,C,D,I) I ** DATA AT TEST PRESSURE UNLESS NOTED **
MP NUMBER 71408 SAN JUAN 27-4 UNIT 7 DK
EFFECTIVE DATE 19980601
REGION CD 42 SAN JUAN
MP TYPE CODE 10 GAS METER - WELLHEAD SALES

SAMPLE TYPE CODE (GAS, LIQ, BTU) GAS ----- BTU/CF -----
SAMPLE DATE 19980601 --- (AT 14.73 PSIG) ---
SAMPLE LINE PRESSURE (PSIG) _____ WET 1127.058 DRY 1147.000
SAMPLE LINE TEMPERATURE (DEG F) _____
TEST DATE _____ ----- BTU/CF -----
TEST PRESSURE (PSIG) _14.730 WET _1127.058 DRY _1147.000
TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR _____
TEST LIFE (MONTHS) _6
TESTER SOURCE BA NUMBER 038689 PETROLEUM LAND CORP
TEST PURPOSE CODE _____

03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST
11=PREV SCR 12=MAIN MENU 20=NEXT REC
21=REFRESH SCR 22=PREV MENU 24=HELP PA1=TERMINATE _____

Page No.: 1

Print Time: Wed Aug 12 09:27:49 1998

Property ID: 1237

Property Name: SAN JUAN 27-4 UNIT | 3 | 49495A-1 *MV*

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM GAS-- M FWHP- M FBHP- M SIWHP M SIBHP
#####Mcf#####Psi#####Psi#####Psi#####Psi

08/30/56	3000			1019.0	<i>Orig</i>
11/06/58	15000			618.0	
11/22/59	17000			584.0	
06/14/60	18000			597.0	
06/13/61	20000			508.0	
07/31/62	22000			514.0	
06/16/65	22000			734.0	
07/18/67	0	0.0		894.0	0.0
11/13/67	25000			1019.0	
05/15/68	28000			988.0	
05/21/70	40830	429.0		817.0	0.0
04/30/71	45415	375.0		907.0	0.0
05/02/72	50961	376.0		782.0	0.0
11/24/81	92302			777.0	
04/07/86	106380	288.0		1032.0	0.0
09/05/89	126167	345.0		498.0	0.0
09/19/91	127696	334.0		725.0	0.0
12/16/91	129422			713.0	<i>Current</i>

	MOL %	GPM (AT 14.73)
HYDROGEN	_____	
HELIUM	_____	
NITROGEN	___0.18	
OXYGEN	_____	
HYDROGEN SULFIDE	_____	
CARBON DIOXIDE	___0.88	
METHANE	___84.22	
ETHANE	___8.42	2.2524
PROPANE	___3.31	0.9122
ISO-BUTANE	___0.68	0.2224
N-BUTANE	___0.91	0.2869
ISO-PENTANE	___0.36	0.1317
N-PENTANE	___0.28	0.1014
HEXANE	_____	
HEXANE PLUS	___0.76	0.3316
HEPTANE PLUS	_____	
TOTALS	100.00	4.2386

** DATA AT 14.730 PSIG UNLESS NOTED **

MP NUMBER 71315
EFFECTIVE DATE 19980501

-- GASOLINE CONTENT (GPM) --
26/70 GASOLINE _____
100% PROPANE _____
EXCESS BUTANES _____
TOTAL

----- SPECIFIC GRAVITY -----
CALCULATED _0.6940
MEASURED _____

SULPHUR GRAINS / 100 CU FT _____

03=MAIN SCREEN

24=HELP

PA1=TERMINATE

FUNCTION (A,C,D,I) I ** DATA AT TEST PRESSURE UNLESS NOTED **
MP NUMBER 71315 SAN JUAN 27-4 UNIT 3 *mw*
EFFECTIVE DATE 19980501
REGION CD 42 SAN JUAN
MP TYPE CODE 10 GAS METER - WELLHEAD SALES

SAMPLE TYPE CODE (GAS,LIQ,BTU) GAS ----- BTU/CF -----
SAMPLE DATE 19980501 --- (AT 14.73 PSIG) --
SAMPLE LINE PRESSURE (PSIG) WET 1185.032 DRY 1206.000
SAMPLE LINE TEMPERATURE (DEG F) _____
TEST DATE _____ ----- BTU/CF -----
TEST PRESSURE (PSIG) _14.730 WET _1185.032 DRY _1206.000
TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR _____
TEST LIFE (MONTHS) _6
TESTER SOURCE BA NUMBER 038689 PETROLEUM LAND CORP
TEST PURPOSE CODE _____

03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST
11=PREV SCR 12=MAIN MENU 20=NEXT REC
21=REFRESH SCR 22=PREV MENU 24=HELP PA1=TERMINATE _____

Expected Production Curve MV

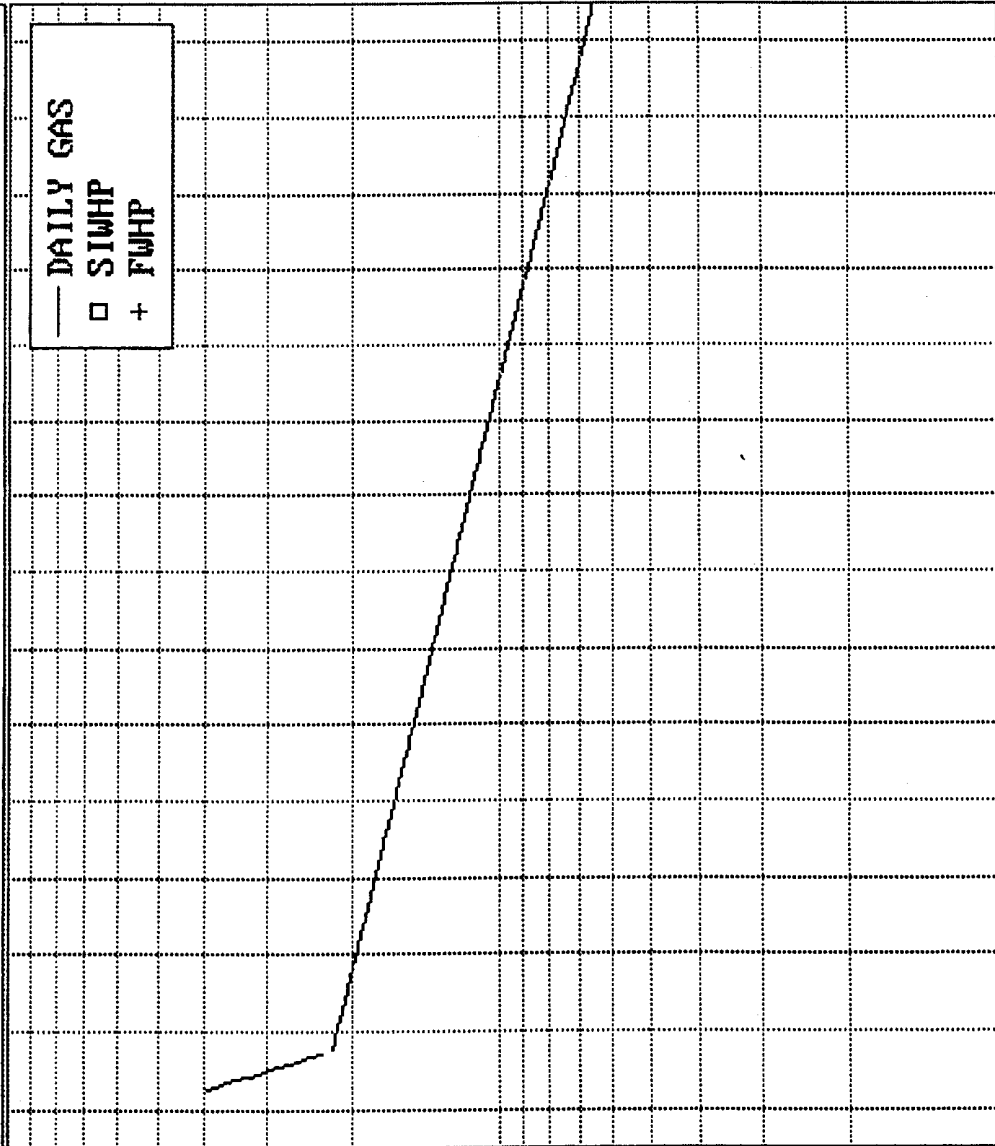
SAN JUAN 27-4 MU/DAKOTA : 3A : 421240

• WATER
• OIL/GAS
• OIL
• GAS

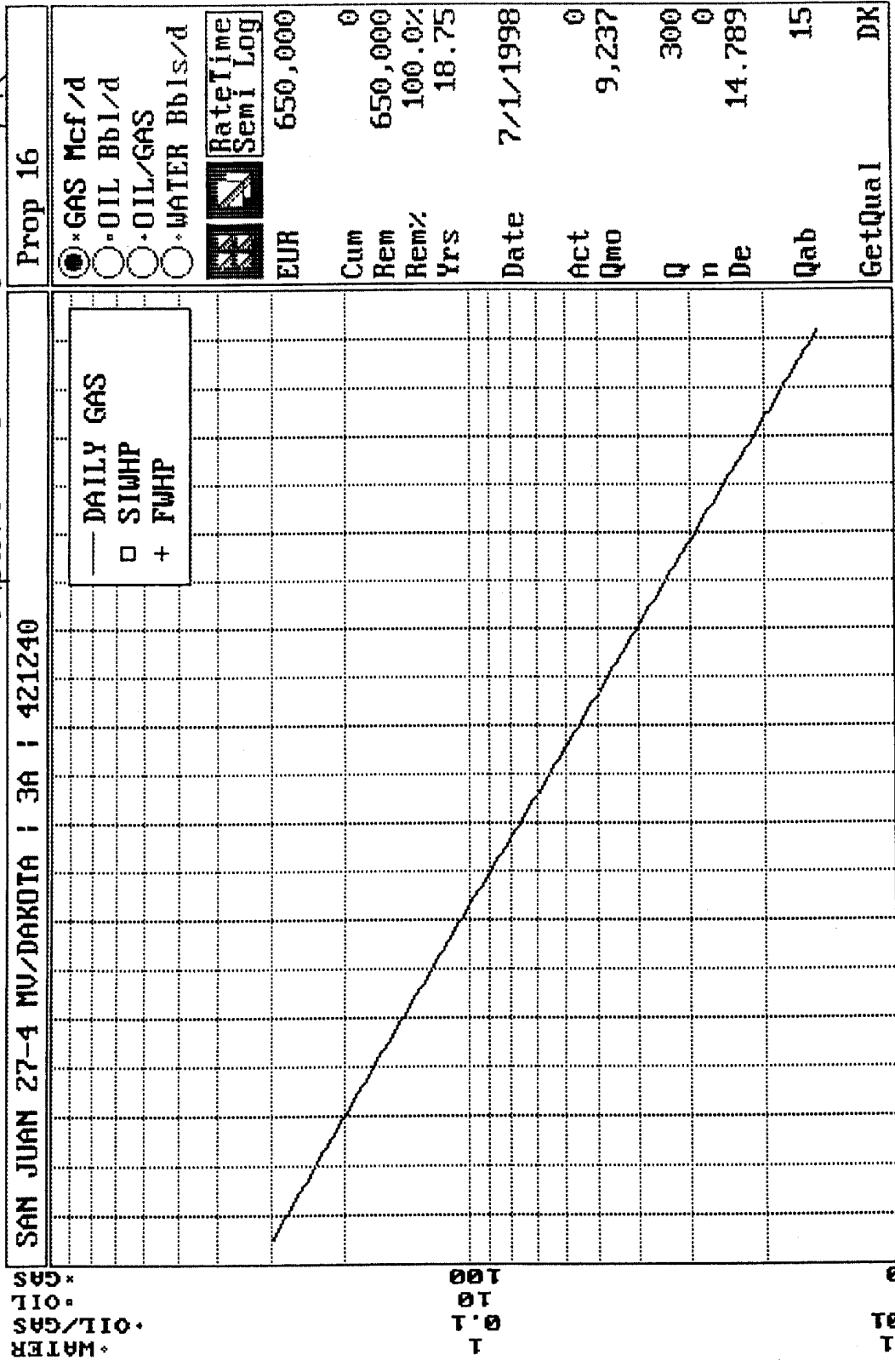
— DAILY GAS
□ SIWHP
+ FWHP

Prop 16	
☒ GAS Mcf/d	☐ OIL Bbl/d
☐ OIL/GAS	☐ WATER Bbls/d
☒ Rate	☒ Time
☒ Semi	☒ Log
EUR 1,800,000	Cum 0
Rem 1,800,000	Rem% 100.0%
Yrs 61.67	Date 7/1/1998
Act 0	Qmo 12,090
Q 400	n 0
De 45	Qab 15
GetQual	MU

Major = GAS



Expected Production Curve DK



Major = GAS

SAN JUAN 27-4 UNIT

PROP #	INT TYPE	NAME
MESAVERDE	GW	CINCO GENERAL PARTNERSHIP
MESAVERDE	NPI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	BEDROCK LIMITED PARTNERSHIP
MESAVERDE	NWI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	HARCO LTD PTSHP
MESAVERDE	NWI	JAMES V HARRINGTON
MESAVERDE	NWI	MARY JONE CHAPPELL
MESAVERDE	NWI	ROMERO FAMILY LTD PARTNERSHIP
MESAVERDE	NWI	TEMPE LTD PARTNERSHIP
MESAVERDE	ORRI	AMALIA S SANCHEZ
MESAVERDE	ORRI	BEDROCK LIMITED PARTNERSHIP
MESAVERDE	ORRI	DEREK PETER VENEZIA
MESAVERDE	ORRI	EDNA E MORRELL LIVG TRUST
MESAVERDE	ORRI	ELEANOR G HAND
MESAVERDE	ORRI	GERALD F HARRINGTON
MESAVERDE	ORRI	HARCO LTD PTSHP
MESAVERDE	ORRI	JAMES V HARRINGTON
MESAVERDE	ORRI	JOHN C MEADOWS
MESAVERDE	ORRI	JOSEPH R ABRAHAM
MESAVERDE	ORRI	LESLIE C TATUM
MESAVERDE	ORRI	LMA ROYALTIES LTD
MESAVERDE	ORRI	MANUEL A SANCHEZ TRUST
MESAVERDE	ORRI	MARY F ROBERTS
MESAVERDE	ORRI	MARY JO WELLS
MESAVERDE	ORRI	MARY JONE CHAPPELL
MESAVERDE	ORRI	MIKE C ABRAHAM TRUSTEE
MESAVERDE	ORRI	MISS M F ABRAHAM
MESAVERDE	ORRI	PATRICIA ANN ASHBURN
MESAVERDE	ORRI	PATRICIA P SCHIEFFER
MESAVERDE	ORRI	ROBBYE F BAKER
MESAVERDE	ORRI	ROBERT P & ANNA D EARNEST TR
MESAVERDE	ORRI	ROBERT S TATUM
MESAVERDE	ORRI	SCOTT ANTHONY VENEZIA
MESAVERDE	ORRI	TEMPE LTD PARTNERSHIP
MESAVERDE	ORRI	U/W FOSTER MORRELL DECD
MESAVERDE	ORRI	UNION OIL CO OF CALIF
MESAVERDE	RI	JUAN R MONTANO
MESAVERDE	RI	MINERALS MANAGEMENT SERVICE
MESAVERDE	RI	WILLIAM B GREENE

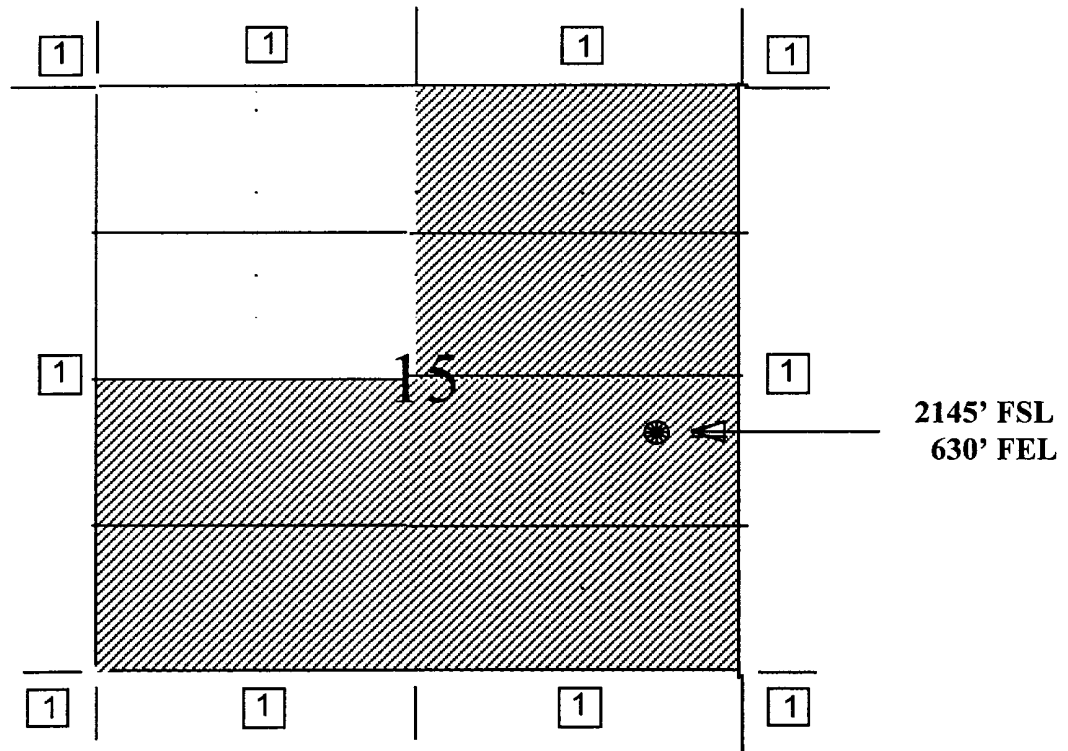
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #3A

**OFFSET OPERATOR \ OWNER PLAT
Nonstandard Location**

Mesaverde (E/2) / Dakota (S/2) Formations Well

Township 27 North, Range 4 West



1) Burlington Resources

SAN JUAN 27-4 UNIT

PROP #	INT TYPE	NAME
DAKOTA	GW	CINCO GENERAL PARTNERSHIP
DAKOTA	NPI	BURLINGTON RESOURCES O&G CO
DAKOTA	NWI	BEDROCK LIMITED PARTNERSHIP
DAKOTA	NWI	BURLINGTON RESOURCES O&G CO
DAKOTA	NWI	HARCO LTD PTSH
DAKOTA	NWI	JAMES V HARRINGTON
DAKOTA	NWI	MARY JONE CHAPPELL
DAKOTA	NWI	TEMPE LTD PARTNERSHIP
DAKOTA	ORRI	AMALIA S SANCHEZ
DAKOTA	ORRI	BEDROCK LIMITED PARTNERSHIP
DAKOTA	ORRI	DEREK PETER VENEZIA
DAKOTA	ORRI	EDNA E MORRELL LIVG TRUST
DAKOTA	ORRI	ELEANOR G HAND
DAKOTA	ORRI	GERALD F HARRINGTON
DAKOTA	ORRI	HARCO LTD PTSH
DAKOTA	ORRI	JAMES V HARRINGTON
DAKOTA	ORRI	JOHN C MEADOWS
DAKOTA	ORRI	JOSEPH R ABRAHAM
DAKOTA	ORRI	LESLIE C TATUM
DAKOTA	ORRI	LMA ROYALTIES LTD
DAKOTA	ORRI	MANUEL A SANCHEZ TRUST
DAKOTA	ORRI	MARY F ROBERTS
DAKOTA	ORRI	MARY JO WELLS
DAKOTA	ORRI	MARY JONE CHAPPELL
DAKOTA	ORRI	MIKE C ABRAHAM TRUSTEE
DAKOTA	ORRI	MISS M F ABRAHAM
DAKOTA	ORRI	PATRICIA ANN ASHBURN
DAKOTA	ORRI	PATRICIA P SCHIEFFER
DAKOTA	ORRI	ROBBY F BAKER
DAKOTA	ORRI	ROBERT P & ANNA D EARNEST TR
DAKOTA	ORRI	ROBERT S TATUM
DAKOTA	ORRI	SCOTT ANTHONY VENEZIA
DAKOTA	ORRI	TEMPE LTD PARTNERSHIP
DAKOTA	ORRI	U/W FOSTER MORRELL DECD
DAKOTA	ORRI	UNION OIL CO OF CALIF
DAKOTA	RI	JUAN R MONTANO
DAKOTA	RI	MINERALS MANAGEMENT SERVICE
DAKOTA	RI	WILLIAM B GREENE

DATE: April 02, 1998

NAME: SAN JUAN 27-4 UNIT 3A

FMT: MESAVERDE

LOCATION

UNIT: M

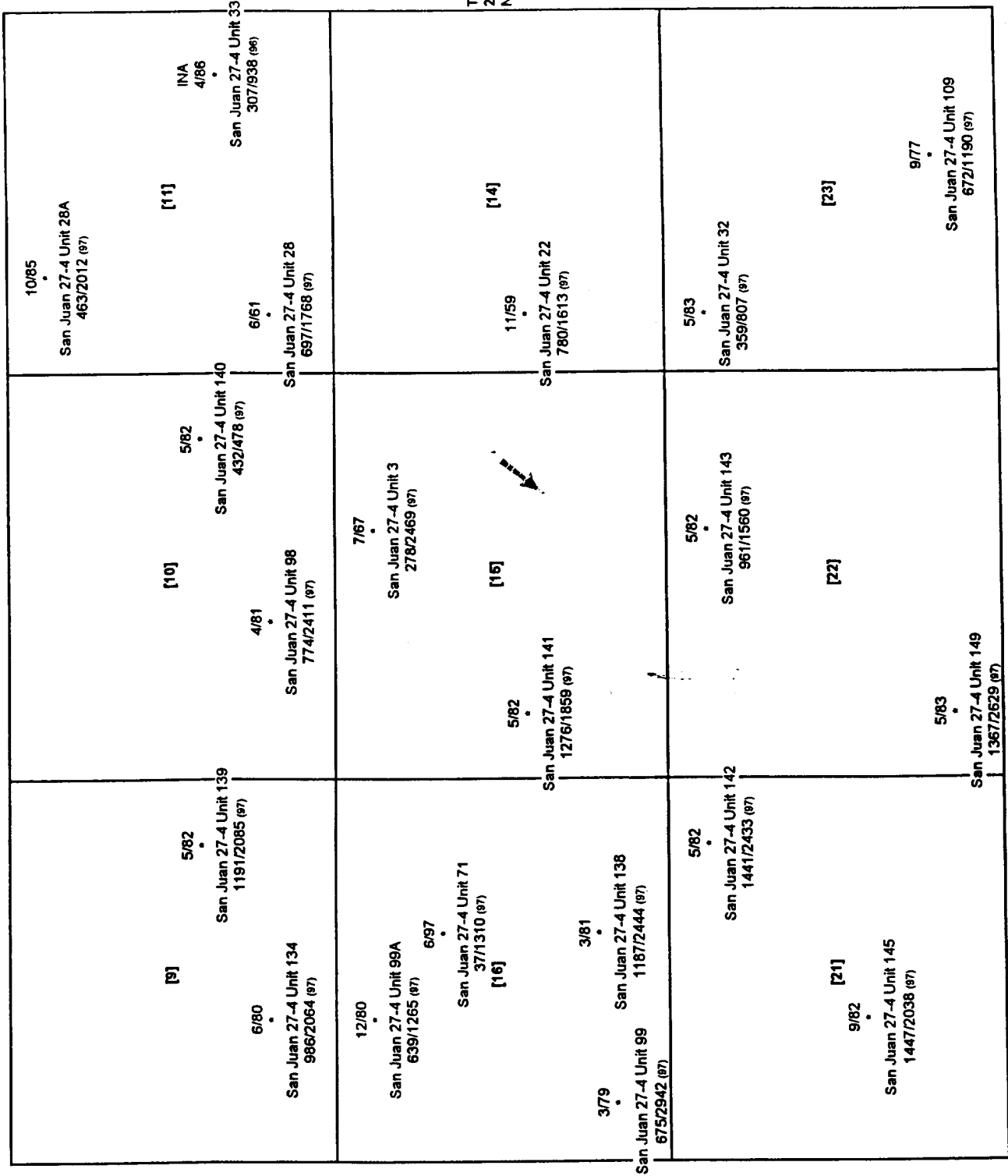
SEC: 15

TWN: 27N

RNG: 04W

LEGEND

FIRST DELIVERY DATA
WELL NAME
CUM(MMCF)-EUR



R-04-W

DATE: February 09, 1998
 NAME: San Juan 27-4 Unit 3A
 FORM: DAKOTA
 LOCATION
 UNIT: M
 SEC: 15
 TWN: 27N
 RNG: 4W

LEGEND
 WELL STATUS
 COMPLETION DATE
 WELL NAME
 CUM(MMCF)-EUR

[9] 12/56 * San Juan 27-4 Unit 7 672/1221	[10] P&A 5/75 * San Juan 27-4 Unit 98 8/46	[11]
[15] P&A 3/74 * San Juan 27-4 Unit 71 [16] 191/312	[15] ↓	[14]
[21] 12/71 * San Juan 27-4 Unit 56 236/255	[22]	[23]

T 27 N

R-4-W