

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

BURLINGTON RESOURCES OIL & GAS COMPANY
OperatorPO Box 4289, Farmington, NM 87499
AddressSan Juan 27-4 Unit
Lease121
Well No.A, Sec. 18, T27N, R04W
Unit Ltr. - Sec - Twp - RgeRio Arriba
County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7452 API NO. 30-039-2097300 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	Tapacito Pictured Cliffs-85920		Blanco Mesa Verde-72319
2. Top and Bottom of Pay Section (Perforations)	3678' - 3793'		5416' - 6074'
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. 394 psia @ 3735' (Original) b. 1200 psia @ 3735'	a. b.	a. 466 psia @ 5745' b. 1385 psia @ 5745'
6. Oil Gravity (°API) or Gas BTU Content	1193 Btu		1154 Btu
7. Producing or Shut-In?	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: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 7/20/98 Rates: 14 MCFD, 0 BOD, 0.1 BWD	Date: Rates:	Date: 7/20/98 Rates: 134 MCFD, 0 BOD, 0 BWD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply after commingling	Oil: Gas:	Oil: Gas: Will supply after commingling

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 Kevin L. Midkiff TITLE Operations Engineer DATE 08-31-98TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. (505) 326-9700

NEW MEXICO OIL CONSERVATION COMMISSION
 ALL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator El Paso Natural Gas Company			Lease San Juan 27-4 Unit (SF-080669)		Well No. 121
Unit Letter A	Section 18	Township 27-N	Range 4-W	County Rio Arriba	
Actual Footage Location of Well:					
1020 feet from the North		line and 980 feet from the East		line	
Ground Level Elev. 6809	Producing Formation Pictured Cliff-Mesa Verde	Pool Tapacito Pictured Cliffs Ext		Dedicated Acreage: 160.00 & 320.00 Acres	

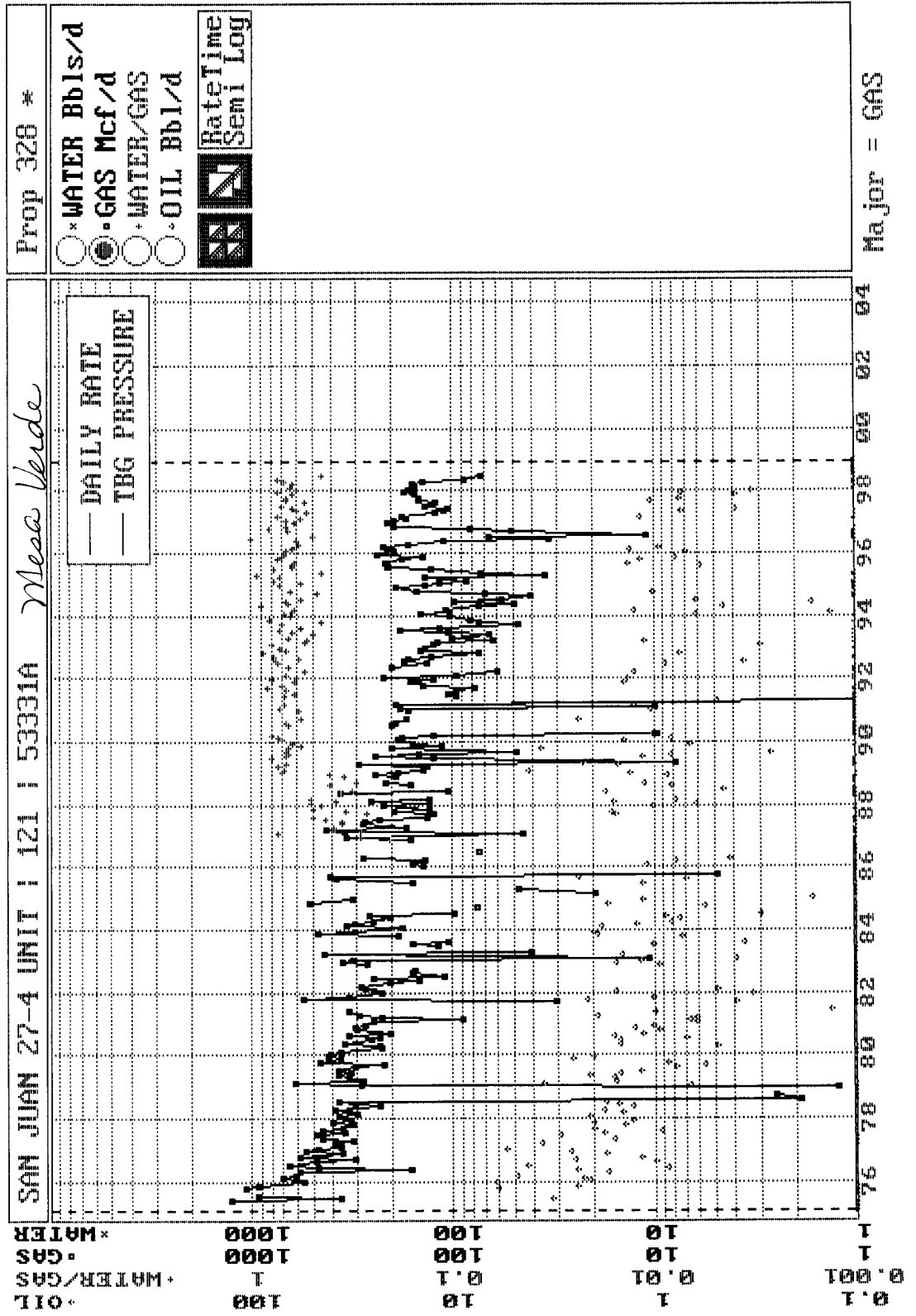
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

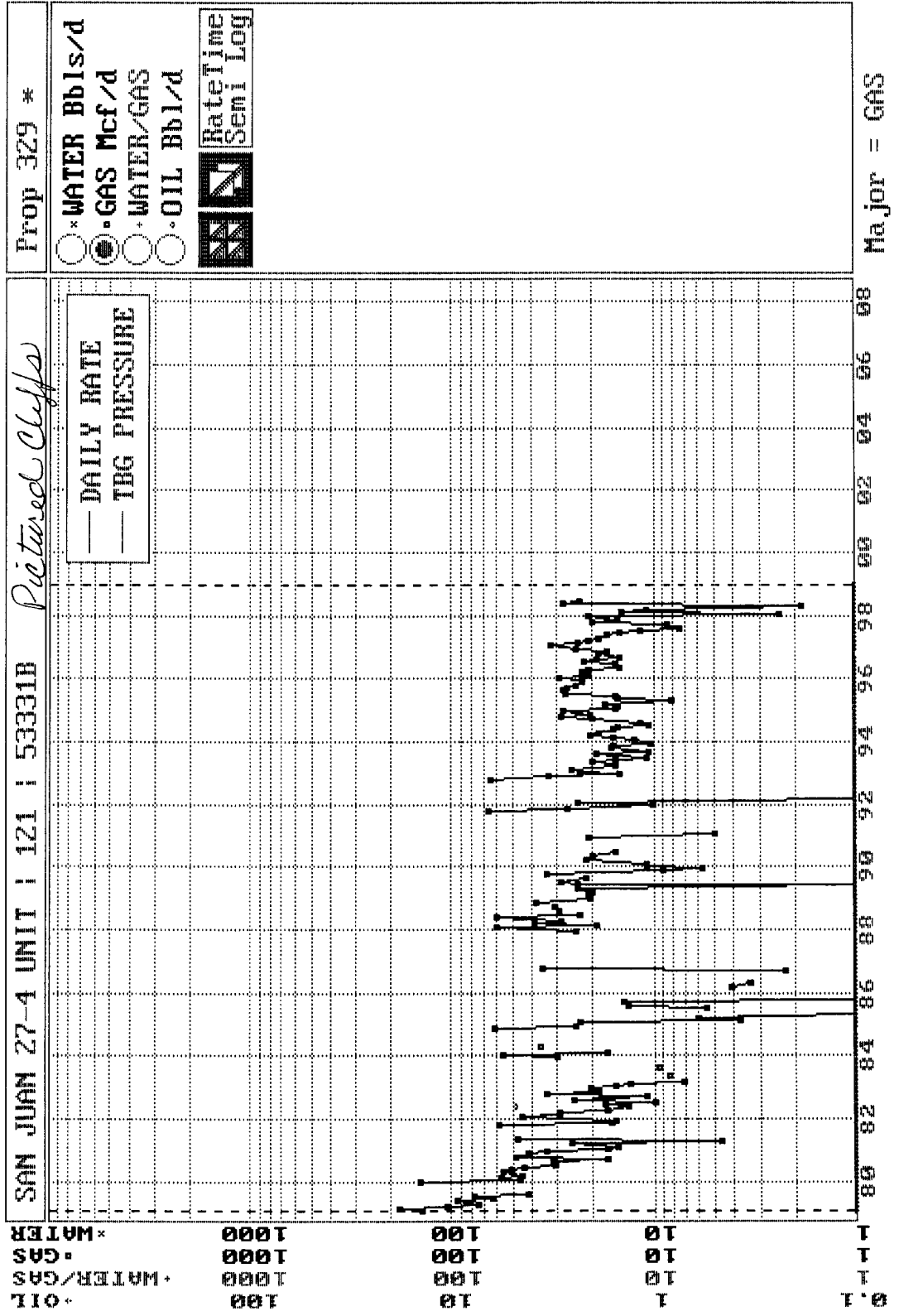
☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

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

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. Note: This Plat Shows Present Mesa Verde Well To Become A Dual Well

Note: Plat Reissued To Show Pool Name Change 7/17/78 RECEIVED SEP 01 1998 OIL CON. DIV. RECEIVED SEC.				CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Original Signed by D. G. Drisco	
		SF-080669		Name Drilling Clerk	
				Position El Paso Natural Gas	
				Company July 20, 1978	
				Date	
		18 FEE		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.	
RECEIVED JUL 25 1978 U. S. GEOLOGICAL SURVEY DURANGO, COLO.		SF-080669		Date Surveyed February 28, 1974	
				Registered Professional Engineer and/or Land Surveyor <i>David O. Vilven</i> David O. Vilven	
				Certificate No.	





Page No.: 2
Print Time: Thu Aug 13 14:06:20 1998
Property ID: 329
Property Name: SAN JUAN 27-4 UNIT | 121 | 53331B
Table Name: S:\ARIES\KLMWORK\TEST.DBF

Pictured Cliffs

<u>--DATE--</u>	<u>---CUM GAS---</u>	<u>M SIWHP</u>
	<u>Mcf</u>	<u>Psi</u>

09/07/78	0	<u>1059.0</u> <i>Initial</i>
06/04/79	20053	505.0
11/26/80	42354	380.0
11/03/81	49021	434.0
02/20/84	62536	461.0
05/03/84	63654	451.0
10/21/86	69719	601.0
09/04/89	86045	624.0
07/24/91	90726	650.0
05/03/93	101059	523.0

06/01/98	134341	345.0	<i>Based on Pressure vs. Cum. Gas Curve</i>
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Page No.: 1
 Print Time: Thu Aug 13 14:06:19 1998
 Property ID: 328
 Property Name: SAN JUAN 27-4 UNIT | 121 | 53331A *Mesa Verde*
 Table Name: S:\ARIES\KLMWORK\TEST.DBF

--DATE--	---CUM GAS-- Mcf	M SIWHP Psi
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12/10/74	0	1167.0 <i>Initial</i>
12/19/74	0	1180.0
05/30/75	38590	846.0
06/25/76	253247	597.0
07/06/77	428289	505.0
08/02/78	554850	552.0
09/06/78	554850	0.0
09/07/78	554850	627.0
03/06/79	590904	594.0
10/02/80	775517	502.0
11/03/81	857184	574.0
04/30/82	894906	435.0
05/03/84	1044034	550.0
04/18/86	1135057	583.0
09/04/89	1325605	700.0
03/18/91	1389555	518.0
03/19/91	1389174	530.0
05/03/93	1474920	383.0

06/01/98	1712843	393.0
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BASED ON PRESSURE VS. CUM GAS CURVE

San Juan 27-4 Unit No. 121
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesa Verde		Pictured Cliffs	
<u>MV - Current</u>		<u>PC-Current</u>	
GAS GRAVITY	0.672	GAS GRAVITY	0.702
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.16	%N2	0.86
%CO2	0.81	%CO2	0.62
%H2S	0	%H2S	0
DIAMETER (IN)	4.05	DIAMETER (IN)	9
DEPTH (FT)	5745	DEPTH (FT)	3735
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	129	BOTTOMHOLE TEMPERATURE (DEG F)	105
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	405	SURFACE PRESSURE (PSIA)	357
BOTTOMHOLE PRESSURE (PSIA)	466.1	BOTTOMHOLE PRESSURE (PSIA)	393.5
<u>MV - Original</u>		<u>PC-Original</u>	
GAS GRAVITY	0.672	GAS GRAVITY	0.702
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.16	%N2	0.86
%CO2	0.81	%CO2	0.62
%H2S	0	%H2S	0
DIAMETER (IN)	4.05	DIAMETER (IN)	9
DEPTH (FT)	5745	DEPTH (FT)	3735
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	129	BOTTOMHOLE TEMPERATURE (DEG F)	105
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1179	SURFACE PRESSURE (PSIA)	1071
BOTTOMHOLE PRESSURE (PSIA)	1385.1	BOTTOMHOLE PRESSURE (PSIA)	1199.8

FARMINGTON 1998 MONTHLY PRODUCTION FOR 53331A
 SAN JUAN 27-4 UNIT 121
 BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

PHS030M1

DAYS =====					OIL =====		=====		GAS =====							
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C		
1	2	F	31	02	10		01	5003	31	1148	15.025		3			
2	2	F	28	02			01	4718	28	1148	15.025		3			
3	2	F	31	02			01	4770	31	1148	15.025		3			
4	2	F	30	02			01	4325	30	1148	15.025		3			
5	2	F	29	02			01	2687	29	1148	15.025		2			
6	2	F	30	02			01	2212	30	1153	15.025		1			
7																
8																
9																
10																
11																
12																

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE
 PF10 - HELP INFORMATION PF9 - DISPLAY MONTHLY INJECTION
 00/00/00 00:00:00:0 PRS 08/05/98

FARMINGTON 1998 MONTHLY PRODUCTION FOR 53331B
 SAN JUAN 27-4 UNIT 121
 TAPACITO P.C. (PRO GAS) FIELD PICTURED CLIFFS ZONE

PHS030M1

DAYS =====			OIL =====			=====			GAS =====					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F					01	73	31	1209	15.025			
2	2	F					01	444	28	1209	15.025			
3	2	F					01	330	31	1209	15.025			
4	2	F					01	56	30	1209	15.025			
5	2	F					01	853	29	1209	15.025			
6	2	F					01	706	30	1192	15.025			
7														
8														
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

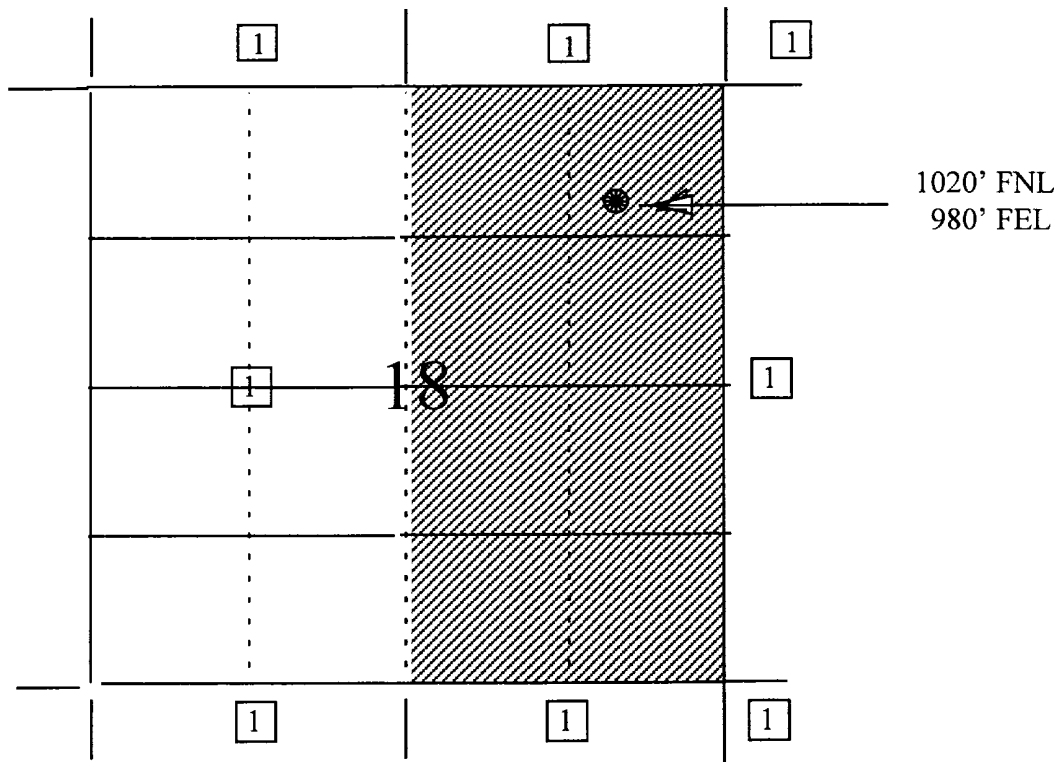
PRS 08/05/98

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-4 Unit #121
OFFSET OPERATOR \ OWNER PLAT
Downhole Commingle**

Mesaverde/Pictured Cliffs Formations Well

Township 27 North, Range 4 West



1) Burlington Resources

SAN JUAN 27-4 UNIT

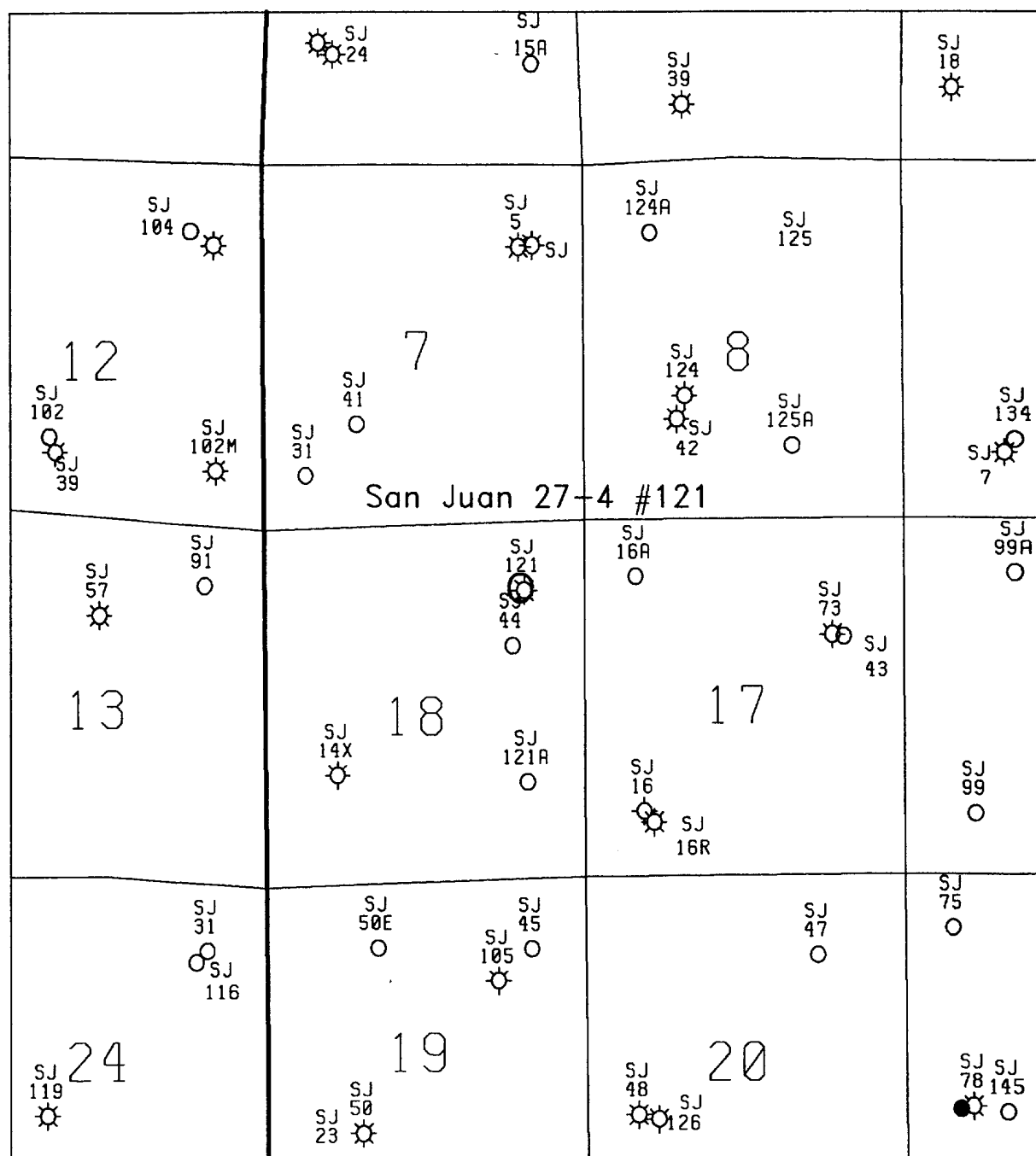
PROP #	INT TYPE	NAME
MESAVERDE	GW	CINCO GENERAL PARTNERSHIP
MESAVERDE	NPI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	BEDROCK LIMITED PARTNERSHIP
MESAVERDE	NWI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	HARCO LTD PTSHP
MESAVERDE	NWI	JAMES V HARRINGTON
MESAVERDE	NWI	MARY JONE CHAPPELL
MESAVERDE	NWI	ROMERO 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	ROBBY 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

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

SAN JUAN 27-4 UNIT

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



San Juan 27-4 #121
Sec 18 T27N R4W
Pictured Cliffs/Mesa Verde