

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
 - Engineering Bureau -  
 2040 South Pacheco, Santa Fe, NM 87505



2107

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

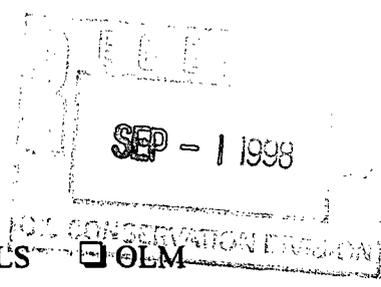
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling  
 NSL  NSP  DD  SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or  Does Not Apply

- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name \_\_\_\_\_ Signature [Handwritten Signature] Title \_\_\_\_\_ Date \_\_\_\_\_

**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

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

**APPROVAL PROCESS :**

Administrative  Hearing

**EXISTING WELLBORE**

YES  NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

**BURLINGTON RESOURCES OIL & GAS COMPANY**  
Operator

PO Box 4289, Farmington, NM 87499  
Address

**San Juan 27-4 Unit**

**121**  
Well No.

**A, Sec. 18, T27N, R04W**  
Unit Ltr. - Sec - Twp - Rge

**Rio 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'	a.	a. 466 psia @ 5745'
	(Original) b. 1200 psia @ 3735'	b.	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  * If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
	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  No

11. 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  No

13. 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 08-31-98

TYPE 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.

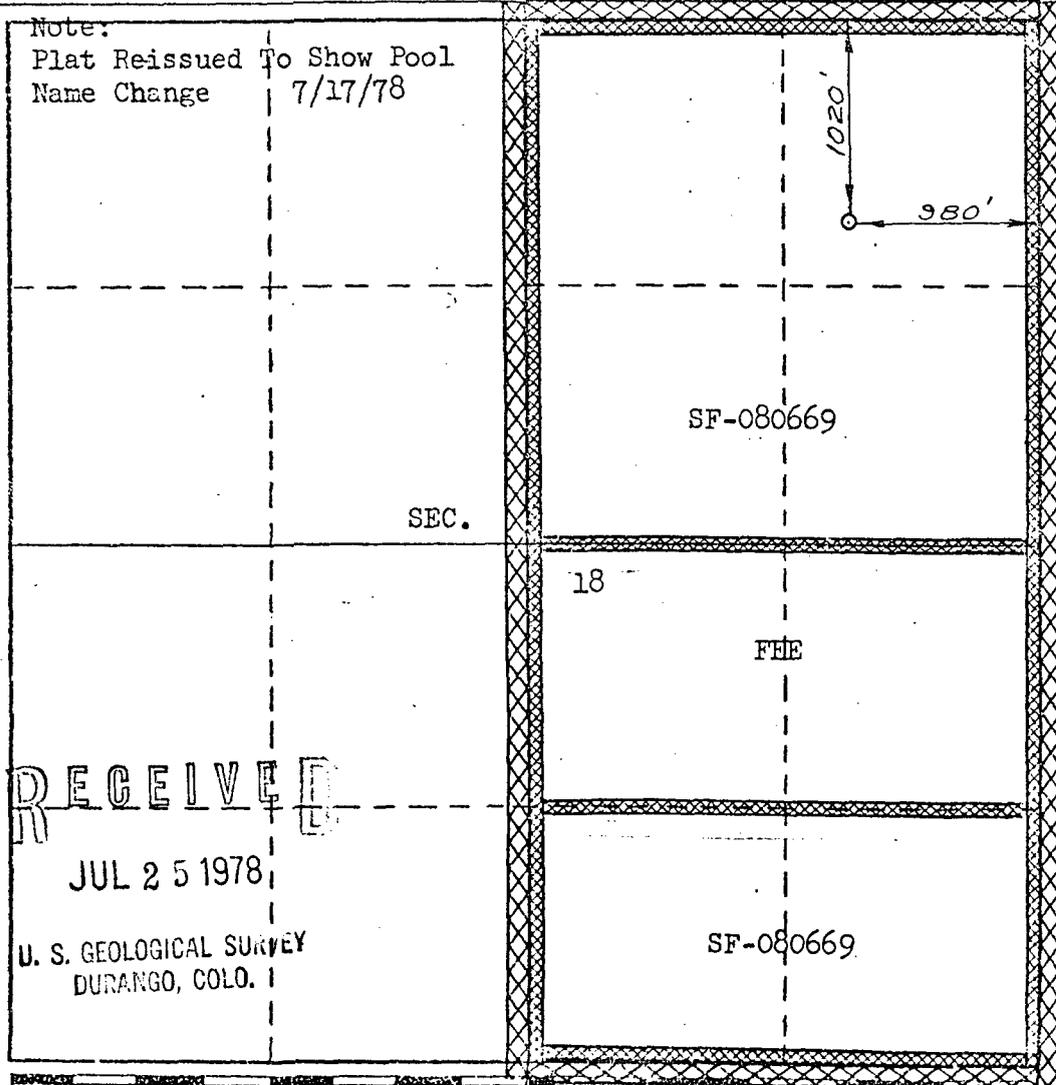
Operator El Paso Natural Gas Company			Lease San Juan 27-4 Unit (SF-080669)		Well No. 121
Unit Letter A	Section 18	Township 27-N	Range 4-W	County Rio Arriba	
Actual Footage Location of Well:					
1020	feet from the North	line and	980	feet from the East	line
Ground Level Elev. 6809	Producing Formation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

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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?

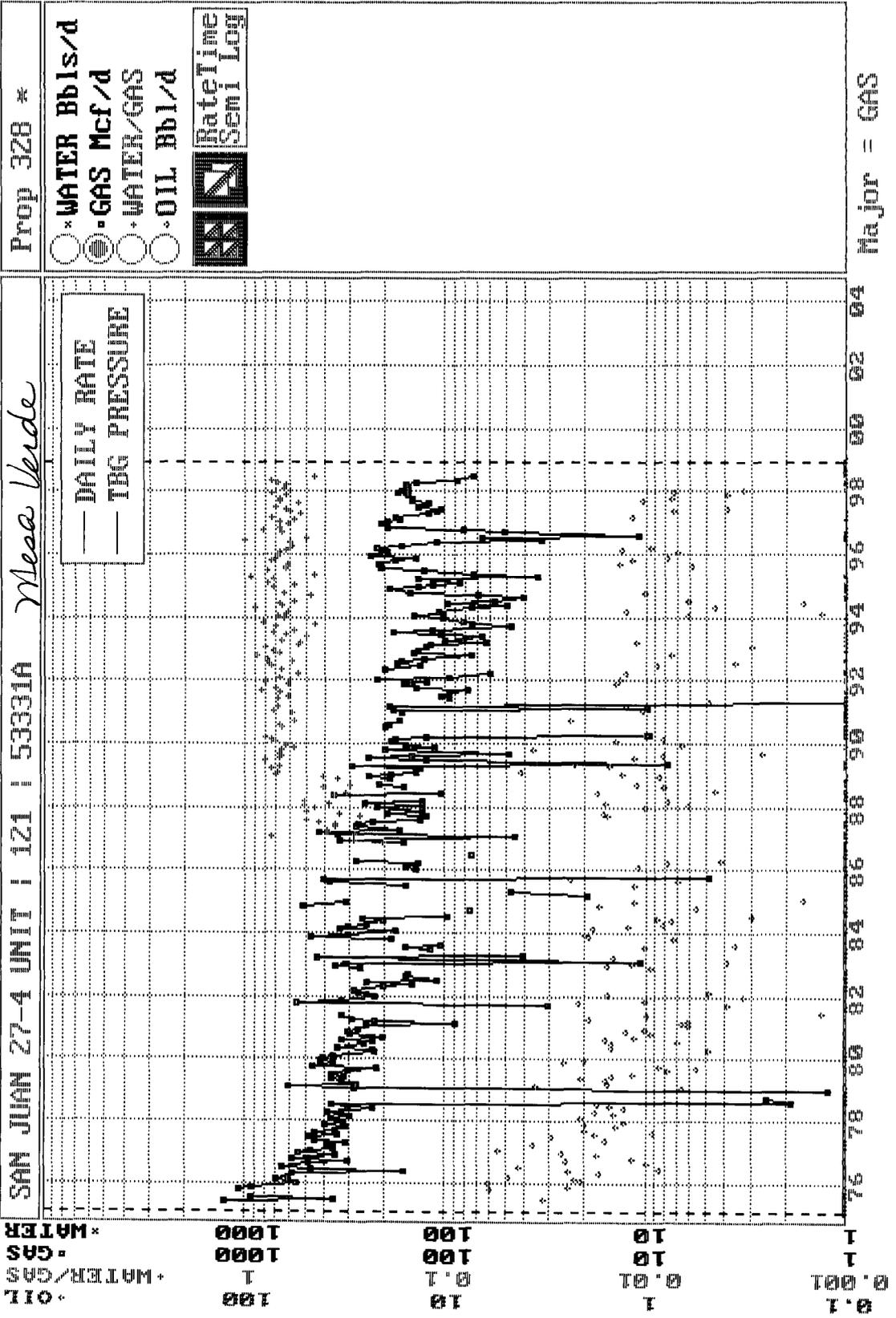
Yes  No If answer is "yes," type of consolidation Unitization

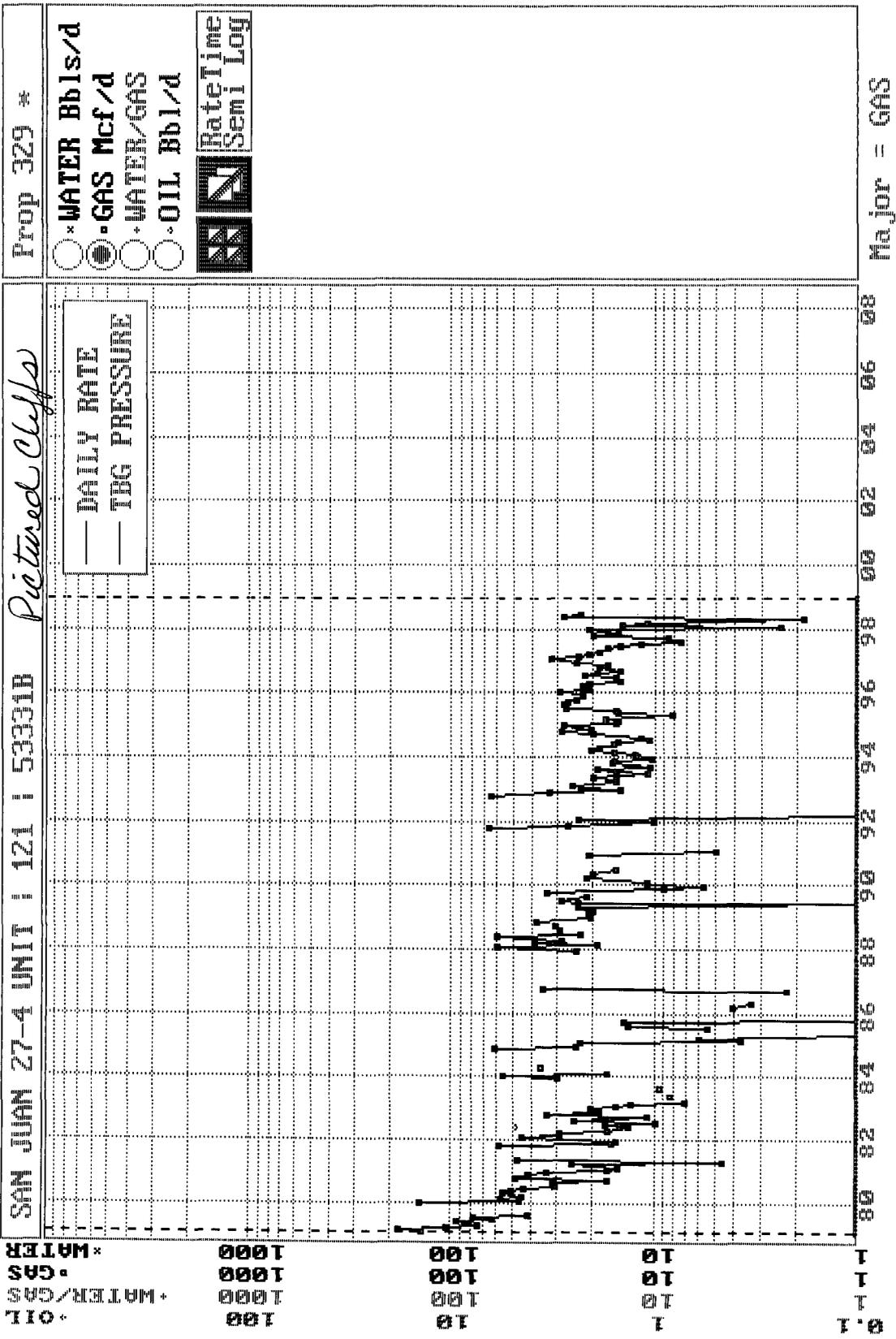
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

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



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. Brisco	
Name	Drilling Clerk
Position	El Paso Natural Gas
Company	July 20, 1978
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	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*

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

09/07/78	0	1059.0	<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    *Based on Pressure vs. Cum. Gas Curve*

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-- M SIWHP  
Mcf Psi

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

*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

<b>Mesa Verde</b>	<b>Pictured Cliffs</b>																																																
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FARMINGTON

1998 MONTHLY PRODUCTION FOR 53331A

PHS030M1

SAN JUAN 27-4 UNIT

121

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

MO	T	S	DAYS =====		OIL =====			GAS =====				WATER	PROD	C
			ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS			
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  
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE  
PF9 - DISPLAY MONTHLY INJECTION  
PRS 08/05/98

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

FARMINGTON

1998 MONTHLY PRODUCTION FOR 53331B

PHS030M1

SAN JUAN 27-4 UNIT 121

TAPACITO P.C. (PRO GAS) FIELD

PICTURED CLIFFS ZONE

MO	T	S	DAYS =====		OIL =====		=====		GAS =====		WATER	PROD	C
			ON	PC	PROD	GRV	PC	PROD	ON	BTU			
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  
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PRS 08/05/98

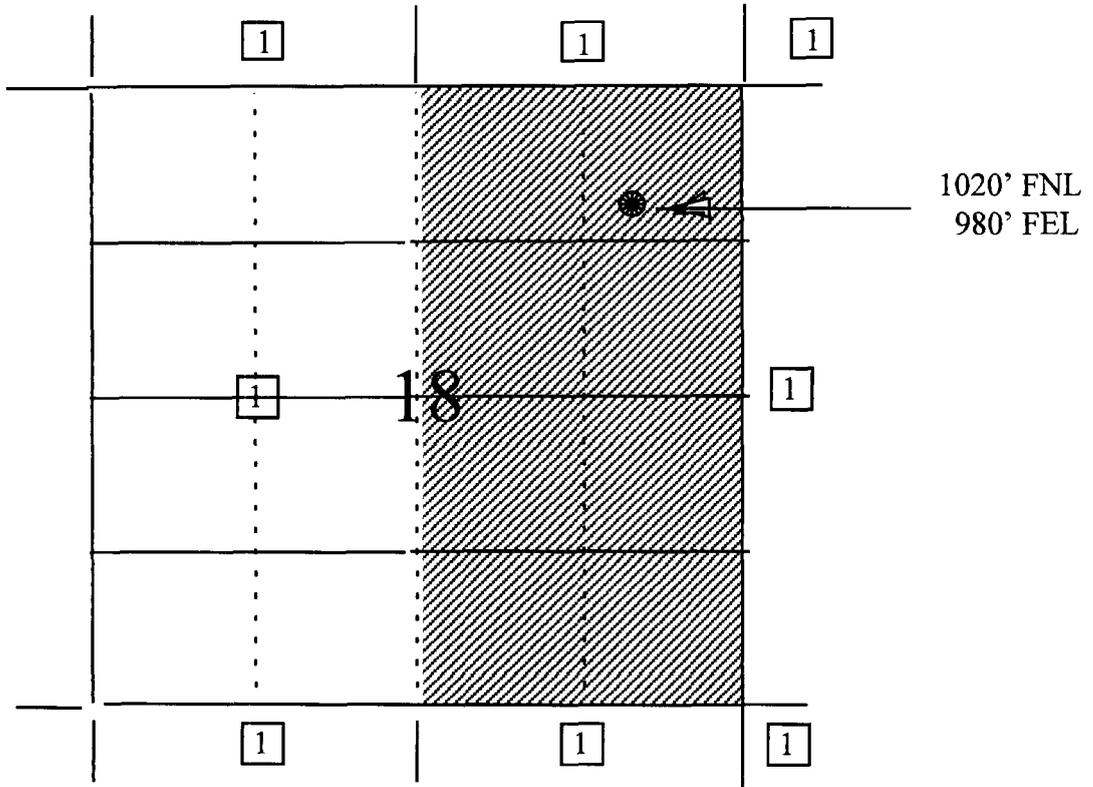
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**BURLINGTON RESOURCES OIL AND GAS COMPANY**

**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**

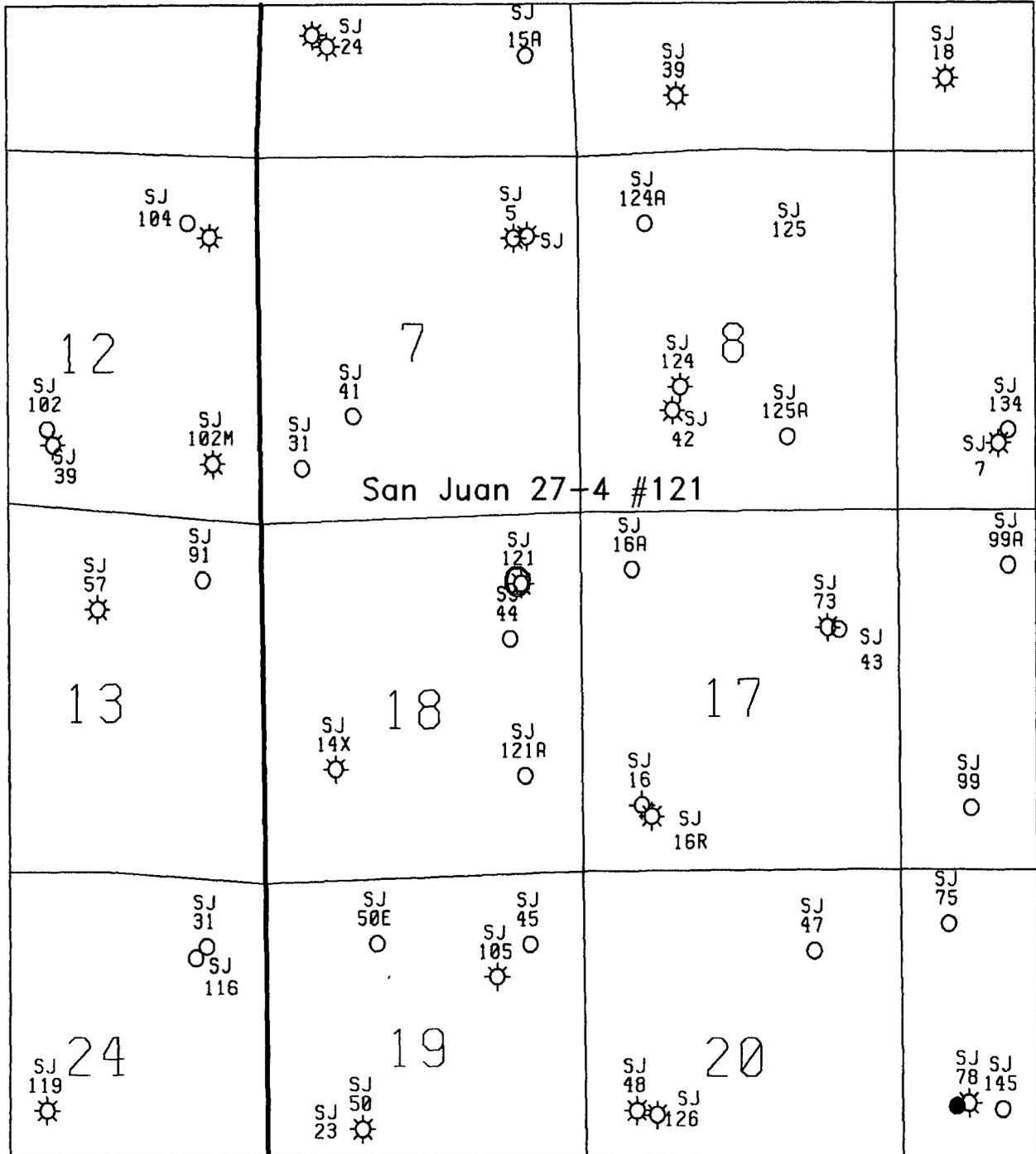
<b>PROP #</b>	<b>INT TYPE</b>	<b>NAME</b>
MESAVERDE	GW	CINCO GENERAL PARTNERSHIP
MESAVERDE	NPI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	BEDROCK LIMITED PARTNERSHIP
MESAVERDE	NWI	BURLINGTON RESOURCES O&G CO
MESAVERDE	NWI	HARCO LTD PTSHP
MESAVERDE	NWI	JAMES V HARRINGTON
MESAVERDE	NWI	MARY JONE CHAPPELL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

**SAN JUAN 27-4 UNIT**

<b>PROP #</b>	<b>INT TYPE</b>	<b>NAME</b>
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**

<b>PROP #</b>	<b>INT TYPE</b>	<b>NAME</b>
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
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PICTURED CLIFFS	ORRI	PATRICIA P SCHIEFFER
PICTURED CLIFFS	ORRI	ROBBYE 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*