

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

PO Box 4289, Farmington, NM 87499

Operator

Address

San Juan 27-5 Unit

131M

20-27N-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 7454 API NO. 30-039-not assigned 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)	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. 784 psi (see attachment) (Original) b. 1290 psi (see attachment)		a. 1012 psi (see attachment) b. 3143 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1162		BTU 1092
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 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 ☐ 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). Reference Order R-10694 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 Sean Woolverton TITLE: Reservoir Engineer DATE: 06-08-98

TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 20, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2098, Santa Fe, NM 87504-2098

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form
Revised February 2
Instructions
Submit to Appropriate District
State Lease - 1
Fee Lease - 3

☐ AMENDED FE

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-		*Pool Code 72319/71599		*Pool Name Blanco Mesaverde/Basin Dakota	
*Property Code 7454		*Property Name SAN JUAN 27-5 UNIT			*Well Number 131M
*GRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			*Elevation 6505'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Co. R. ARR
0	20	27N	5W		835	SOUTH	1635	EAST	

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	Co.

12 Dedicated Acres MV-E/320 DK-E/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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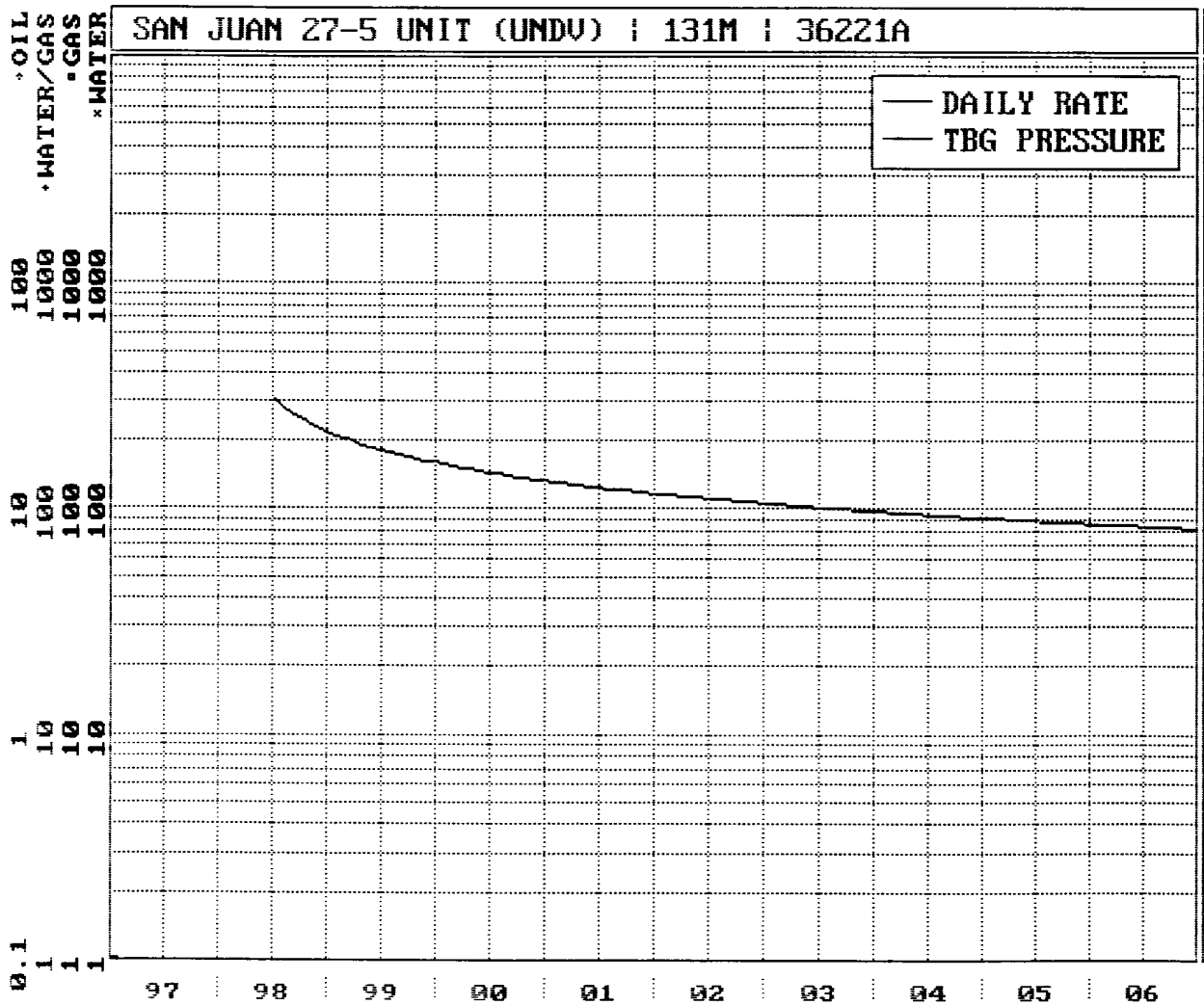
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16		2656.50'		2785.86'		17 OPERATOR CERTIFICATION	
2577.96'		RECEIVED JUN 9 1998 OIL CON. DIV. DIST. 3		20		I hereby certify that the information contained is true and complete to the best of my knowledge.	
						Signature	
						Peggy Bradfield	
						Printed Name	
2626.80'		2764.74'		2529.12'		Regulatory Administrator	
						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 on or under my supervision and that the same is true and correct to the best of my belief.	
						APRIL 8, 1998	
						Date of Survey	
						Signature and Seal of Professional Surveyor	
						NEALE C. EDWARDS NEW MEXICO 6857 Certificated Professional Surveyor	

San Juan 27-5 Unit #131M

Expected Production Curve

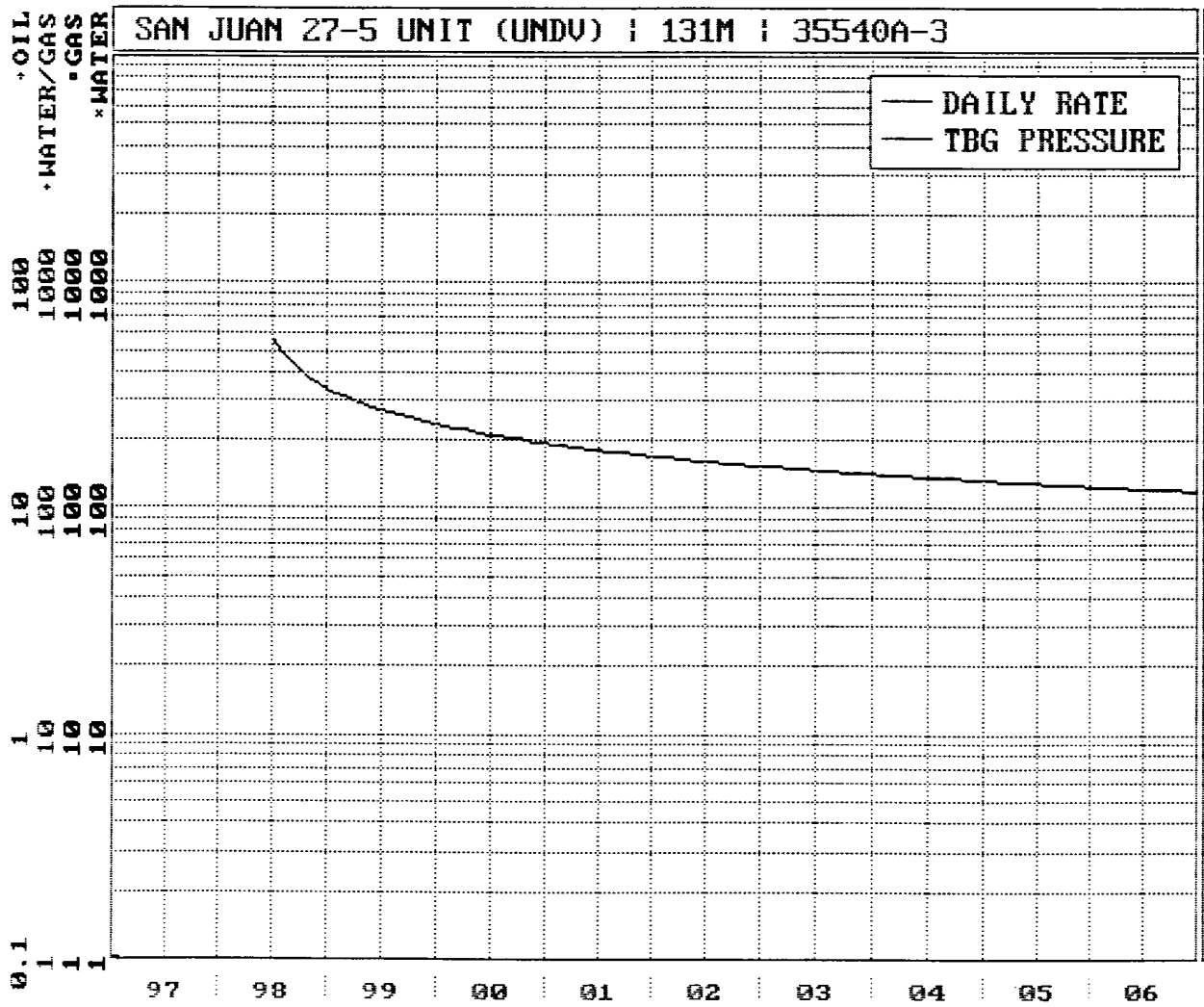
Blanco Mesaverde



San Juan 27-5 Unit #131M

Expected Production Curve

Basin Dakota



San Juan 27-5 Unit #131M

Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.681	GAS GRAVITY	0.639
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.37	%N2	0.22
%CO2	0.88	%CO2	1.25
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5471	DEPTH (FT)	7640
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	681	SURFACE PRESSURE (PSIA)	850
BOTTOMHOLE PRESSURE (PSIA)	784.1	BOTTOMHOLE PRESSURE (PSIA)	1011.9
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.681	GAS GRAVITY	0.639
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.37	%N2	0.22
%CO2	0.88	%CO2	1.25
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5457	DEPTH (FT)	7640
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1109	SURFACE PRESSURE (PSIA)	2605
BOTTOMHOLE PRESSURE (PSIA)	1289.6	BOTTOMHOLE PRESSURE (PSIA)	3143.3

Page No.: 1

Print Time: Thu Feb 05 13:36:14 1998

Property ID: 11436

Property Name: SAN JUAN 27-5 UNIT | 4 | 53344A-1

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

--DATE-- M SIWHP
:Psi:

San Juan 27-5 Unit #131M
Mesaverde Offset

09/24/53	1109.0	-original
09/29/53	1058.0	
08/29/55	949.0	
02/07/57	863.0	
11/06/58	901.0	
06/14/59	994.0	
12/06/59	829.0	
06/14/60	853.0	
06/13/61	673.0	
07/13/62	650.0	
04/19/63	649.0	
04/29/64	614.0	
05/10/65	617.0	
04/19/66	616.0	
05/16/67	604.0	
05/02/68	596.0	
10/07/70	552.0	
07/22/71	511.0	
06/06/72	557.0	
12/01/81	673.0	
04/21/86	685.0	
09/04/89	594.0	
04/15/91	669.0	
05/13/91	681.0	- current

Page No.: 1

Print Time: Thu Feb 05 13:37:51 1998

Property ID: 1708

Property Name: SAN JUAN 27-5 UNIT | 140 | 44048A-1

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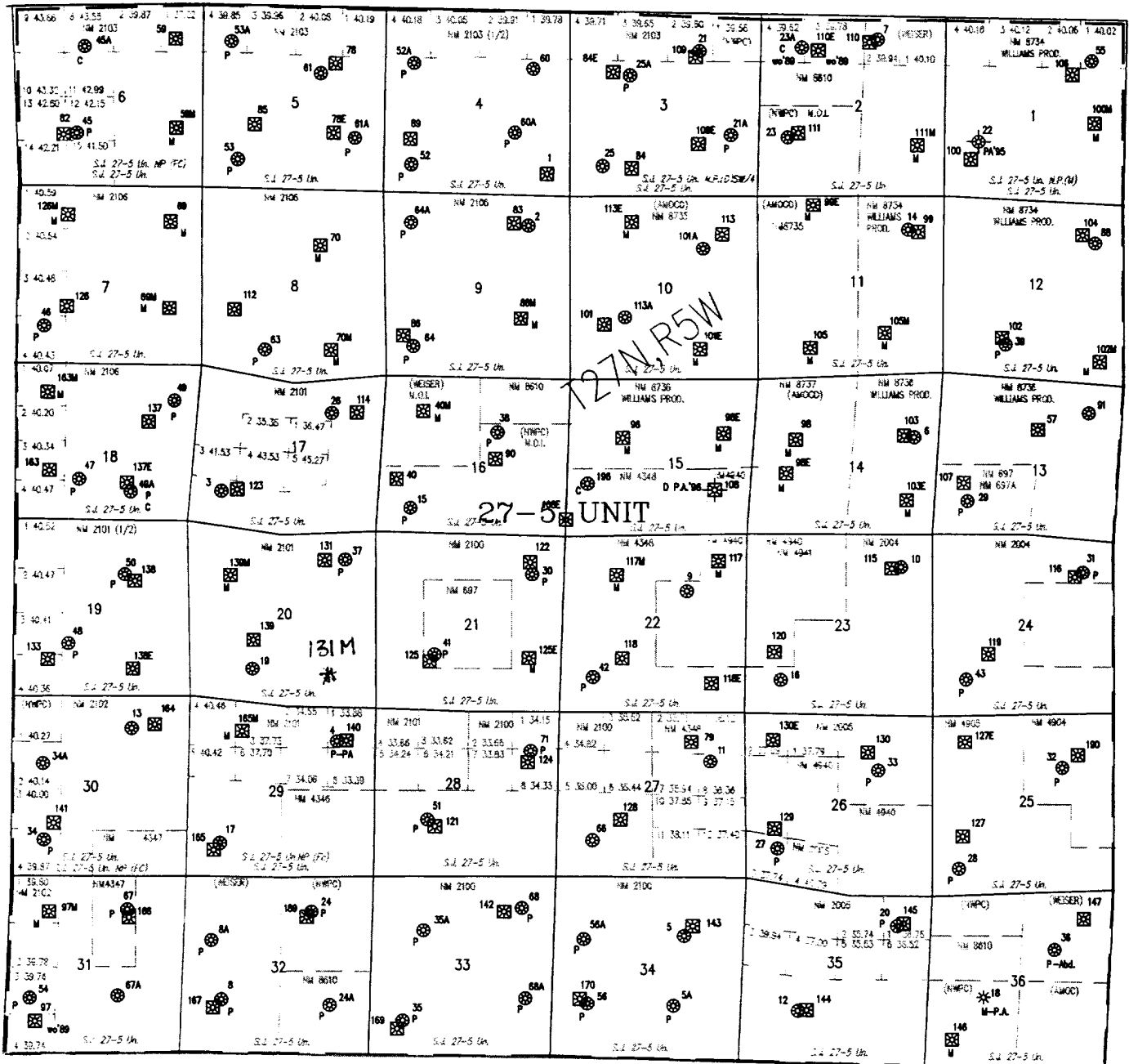
..... Psi.....

04/24/72	2605.0	- original
07/07/72	1785.0	
07/19/73	1339.0	
06/04/74	1072.0	
05/22/75	762.0	
07/06/77	750.0	
09/20/79	882.0	
05/04/81	877.0	
09/13/83	1051.0	
06/04/85	851.0	
06/28/88	979.0	
05/29/90	975.0	
07/28/92	850.0	- current

San Juan 27-5 Unit # 131M

Dakota Offset

27N-05W-20

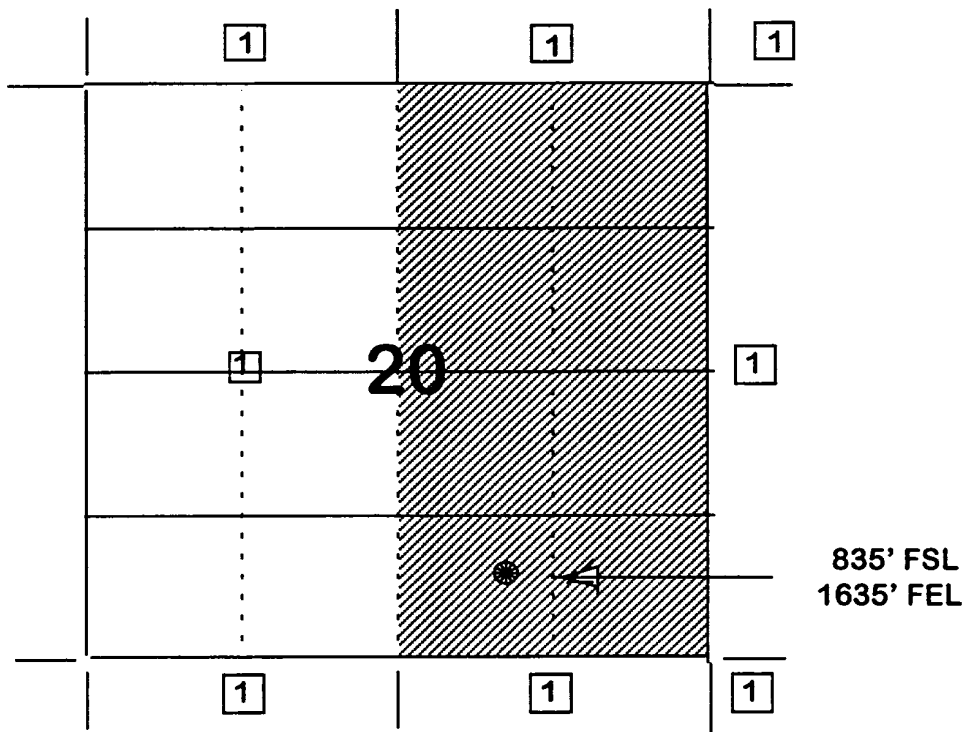


BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-5 Unit #131M
OFFSET OPERATOR / OWNER PLAT**

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 5 West



1) Burlington Resources