BURLINGTON RESOURCES

SAN JUAN DIVISION

January 27, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: San Juan 28-5 Unit #35M

1840'FSL, 1840'FEL Section 19, T-28-N, R-5-W, Rio Arriba County, NM

API #30-039-25596

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This well is a new Mesa Verde/Dakota well that is being drilled and completed in 1997.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;

- 2. C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Production curve not available new drill well;
- 4. Notification list of offset operators Burlington is the offset operator;
- 5. Shut in wellhead pressure and calculated down hole pressure;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Reference Order #R-10695 issued November 12, 1996 attached.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

rad huld

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

encs.

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

APPLICATION FOR DOWNHOLE COMMINGLING

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Form C-107-New 3-12-96

APPROVAL PROCESS:

_X Administrative Hearing

EXISTING WELLBOR

___ YES __X NO

Burlington Resources Oil & G		PO Box 4289, Farming	ton, NM 87499
^{Operator} San Juan 28-5 Unit	35 M J 1		Rio Arriba
Cease OGRID NO14538 Property C		Ltr Sec - Twp - Rge 039-25596Federalx, Sta	County Spacing Unit Lease Types: (check 1 or more)
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
Top and Bottom of Pay Section (Perforations)	4978-5794		7593-7876'
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	(Current) a. 506 (see attachment)	a.	a. 1000 psi - see attachment
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b 1249 psi (see attachment	b.	b. 2588 psi - see attachment
6. Oil Gravity (°API) or Gas BTU Content	BTU 1183		BTU 1027
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	Date: NA Rates:	Date: Rates:	Date: NA Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Mp po;. mp		
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: NA Rates:	Date: Rates:	Date: NA 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
If allocation formula is based u attachments with supporting data	pon something other than curre	ent or past production, or is bas	sed upon some other method, subn
10. Are all working, overriding, and If not, have all working, overridi Have all offset operators been o			
11. Will cross-flow occur? X Y		mpatible, will the formations no	t he damaged will any cross-flow
12. Are all produced fluids from all		·	
13. Will the value of production be d			
14. If this well is on, or communitize of Land Management has been n	ed with, state or federal lands, e notified in writing of this applicat	ither the Commissioner of Publi ionX_Yes No	c Lands or the United States Bure
15. NMOCD Reference Cases for Ru	ule 303(D) Exceptions: ORDER	NO(S). R-10695 attached	
16. ATTACHMENTS: * C-102 for each zone: * Production curve for * For zones with no pro * Data to support alloc * Notification list of all * Notification list of wo * Any additional staten	to be commingled showing its speach zone for at least one year, oduction history, estimated production method or formula offset operators, and royalty in nents, data, or documents requi	pacing unit and acreage dedicat (If not available, attach explana luction rates and supporting dat terests for uncommon interest c red to support commingling.	ion. ation.) a. ases.
hereby certify that the inform	nation above is true and con	nplete to the best of my kno	wledge and belief.
SIGNATURE 4 3 G	TITLE_Proc	luction Engineer	DATE1/28/97

TYPE OR PRINT NAME _James A. Smith_____ TELEPHONE NO. (505) 326-9700__

District 4 PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Hrazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerain & Natural Renources 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

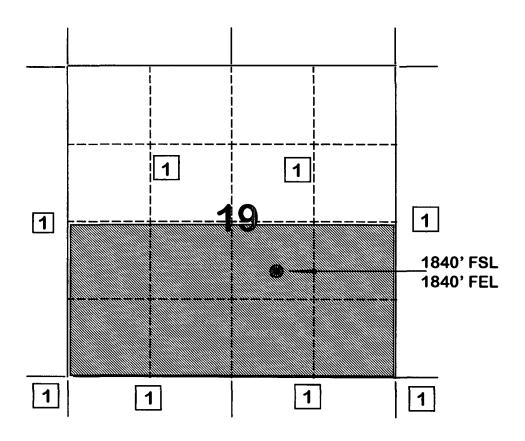
AMENDED REPORT

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` /	API Numbe	it.		1 Pool Code					¹ Poel Na	me	 -	
30-039-	-		723	19/715	99	Bla	nco Mesave	rde	/Basin	Dakot	a	
' Property (Code				, St	operty.	Name				•	Well Number
7460				Sa			8-5 Unit					35M
'OGRID	No.	B	unt.TN	GTON R	o; ESOURC	CES	Name OIL AND GA	s c	ОМРАНУ	İ		Elevation
14538												6584'
	,						Location					
UL or lot no.	Section	Township	Range	Lot Ida	Feet from		North/South line	'	l (rum the	East/West		County
J	19	28 N	5 W		1840		South	<u> </u>	840	East		R.A.
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UL or lot so.	Section	Township	Range	Lot idn	Feet from	the	North/South line	Fee	i from the	East/West	tiae	County
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1												
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BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-5 Unit #35M OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well Township 28 North, Range 5 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.687
COND. OR MISC. (C/M)	C
%N2	0.88
%CO2	0.89
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	4650
SURFACE TEMPERATURE (DEG F).	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	451
BOTTOMHOLE PRESSURE (PSIA)	505.7

SAN JUAN 28-5 #35 MESAVERDE CURRENT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.687
COND. OR MISC. (C/M)	C
%N2	0.88
%CO2	0.89
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	4650
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1100
BOTTOMHOLE PRESSURE (PSIA)	1249.3

SAN JUAN 28-5 #35 MESAVERDE ORIGINAL

Page No.: 1

Print Time: Thu Oct 03 11:39:16 1996
Property ID: 3947
Property Name: SAN JUAN 28-5 UNIT | 35 | : : 2228 CF: 93 SIP: Table Name: K:\ARIES\RR97PDP\TEST.DBF

	CUM_GAS Mcf		,	
11/12/59	0	1100.0		
02/23/60	0	1087.0		
12/14/60	125000	858.0		
06/13/61	204000	815.0		
09/24/62	343000	822.0		0 0
05/16/63	435000	753.0	Mesciverde 28-5	rarent of
05/26/64	534000	748.0	11 (6)22,010	
09/08/65	701000	727.0	78-5	# 35M
04/12/66	770000	696.0		
03/22/67	881000	686.0		
04/01/68	1005000	662.0		
05/15/69	1168255	631.0		
05/25/70	1298898	582.0		
05/04/71	1443315	562.0		
05/22/72	1579040	528.0		
08/21/73	1760089	475.0		
06/12/74	1878779	442.0		
08/17/76	2147766	449.0		
06/05/78	2363910	454.0		
06/04/80	2559123	382.0		
11/04/82	2743480	562.0		
05/01/84	2869149	451.0		
04/16/86	2992042	471.0		
09/04/89	3198517	482.0		
02/18/91	3271292	530.0		
08/26/91	3271506	542.0		
03/02/93	3376293	451.0 ~ WE		

SAN JUAN 28-5 #35M

CURRENT DAKOTA PRESSURE (BASED ON CURRENT AVERAGE OF OFFSET WELLS)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.694
COND. OR MISC. (C/M)	С
%N2	0.34
%CO2	1.44
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7509
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	828
BOTTOMHOLE PRESSURE (PSIA)	999.7

OFFSET DAKOTA WELLS - CURRENT PRESSURE

SAN JUAN 28-5 UNIT #35 DAKOTA-CURRENT	779
SAN JUAN 28-5 UNIT #54 DAKOTA-CURRENT	1083
SAN JUAN 28-5 UNIT #54E DAKOTA-CURRENT	501
SAN JUAN 28-5 UNIT #57 DAKOTA-CURRENT	1380
SAN JUAN 28-5 UNIT #57M DAKOTA-CURRENT	511
SAN JUAN 28-5 UNIT #59 DAKOTA-CURRENT	1001
SAN JUAN 28-5 UNIT #59M DAKOTA-CURRENT	638
SAN JUAN 28-5 UNIT #66 DAKOTA-CURRENT	732
AVERAGE SURFACE PRESSURE	828

NOTE: SEE OFFSET WELL PLAT

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.694
COND. OR MISC. (C/M)	C
%N2	0.34
%CO2	1.44
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7509
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2099
BOTTOMHOLE PRESSURE (PSIA)	2587.9

SAN JUAN 28-5 #35 DAKOTA ORIGINAL

Page No.: 1

Print Time: Thu Oct 03 16:11:48 1996
Property ID: 1874
Property Name: SAN JUAN 28 5 UNIT | 000035 | 251-039-28N05W19M00DK
Table Name: C:\ARIES\DAKOTA\TEST.DBF

	CUM_GAS		
11/12/59 05/25/70 05/04/71 05/22/72 08/21/73 09/04/75 01/24/77 06/07/79 05/01/81	0 607627 677032 745349 823346 922610 986257 1085379 1150306	2099.0 < original 1001.0 1012.0 997.0 959.0 1144.0 1090.0 985.0 1051.0	Dakota Parent Well 28-5 #1 35M

Page No.: 1
Print Time: Mon Nov 04 16:10:31 1996
Property ID: 1770

Property Name: SAN JUAN 28-5 UNIT | 54 | 50693A-1 Table Name: K:\ARIES\RR97PDP\TEST.DBF

	CUM_GAS Mcf	
12/24/62	0	2625.0
01/15/63	0	2629.0
05/06/63	41000	1679.0
04/22/64		1348.0
06/21/65	256000	1229.0
05/23/66	361000	1141.0
05/26/67	473000	984.0
05/20/68	572000	957.0
06/19/70	755870	858.0
04/27/71	822634	822.0
05/15/72	905811	833.0
07/23/73	972655	1046.0
05/05/75	1057586	1132.0
07/05/77	1137950	1182.0
10/04/79	1206041	1182.0
08/12/81	1252029	1224.0
12/12/85	1351967	1160.0
10/04/88	1410682	1112.0
04/08/90	1431387	1522.0 1083.04
04/04/94	1512579	1083.04

Page No.: 2
Print Time: Mon Nov 04 16:10:32 1996
Property ID: 1771
Property Name: SAN JUAN 28-5 UNIT | 54E | 54329A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

	CUM_GAS Mcf	M SIWHP Psi			
				1.11	Offset
10/07/85	0	1602.0		Dakota	044254
12/12/85	42225	1057.0		70-5	# 35m
09/19/86	117591	882.0		20)	J- 55/11
12/18/87	260717	728.0			
10/04/88	329905	702.0			
04/08/90	401308	912.0			
09/29/92	573187	619.0			
01/31/94	694337	501.0≪	- Wrent		

Page No.: 3
Print Time: Mon Nov 04 16:10:32 1996

Property ID: 1773
Property Name: SAN JUAN 28-5 UNIT | 57 | 50692A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

12/21/62		CUM_GAS Mcf	M SIWHP
04/28/63 51000 2092.0 04/22/64 176000 1701.0 06/21/65 339000 1608.0 05/23/66 491000 1361.0 05/26/67 634000 1472.0 05/20/68 778000 1333.0 11/04/68 842000 1216.0 08/19/69 947920 1223.0 07/28/70 1068832 1097.0 06/22/71 1188627 1014.0 06/07/72 1276842 876.0 07/23/73 1335667 1426.0 10/21/75 1478008 1334.0 08/17/76 1544129 1232.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	12/21/62	0	2595.0
05/23/66	01/04/63	0	2594.0
05/23/66	04/28/63	51000	2092.0
05/23/66	04/22/64	176000	1701.0
05/23/66	06/21/65	339000	1608.0
05/20/68 778000 1333.0 11/04/68 842000 1216.0 08/19/69 947920 1223.0 07/28/70 1068832 1097.0 06/22/71 1188627 1014.0 06/07/72 1276842 876.0 07/23/73 1335667 1426.0 10/21/75 1478008 1334.0 08/17/76 1544129 1232.0 06/01/77 1627778 1037.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	05/23/66	491000	1361.0
05/20/68 778000 1333.0 11/04/68 842000 1216.0 08/19/69 947920 1223.0 07/28/70 1068832 1097.0 06/22/71 1188627 1014.0 06/07/72 1276842 876.0 07/23/73 1335667 1426.0 10/21/75 1478008 1334.0 08/17/76 1544129 1232.0 06/01/77 1627778 1037.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	05/26/67	634000	1472.0
11/04/68 842000 1216.0 08/19/69 947920 1223.0 07/28/70 1068832 1097.0 06/22/71 1188627 1014.0 06/07/72 1276842 876.0 07/23/73 1335667 1426.0 10/21/75 1478008 1334.0 08/17/76 1544129 1232.0 06/01/77 1627778 1037.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0		778000	1333.0
07/28/70 1068832 1097.0 06/22/71 1188627 1014.0 06/07/72 1276842 876.0 07/23/73 1335667 1426.0 10/21/75 1478008 1334.0 08/17/76 1544129 1232.0 06/01/77 1627778 1037.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0		842000	1216.0
06/22/71	08/19/69	947920	1223.0
06/07/72	07/28/70	1068832	1097.0
07/23/73 1335667 1426.0 10/21/75 1478008 1334.0 08/17/76 1544129 1232.0 06/01/77 1627778 1037.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	06/22/71	1188627	1014.0
10/21/75 1478008 1334.0 08/17/76 1544129 1232.0 06/01/77 1627778 1037.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	06/07/72	1276842	876.0
08/17/76	07/23/73	1335667	1426.0
06/01/77 1627778 1037.0 06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	10/21/75	1478008	1334.0
06/07/79 1787492 1024.0 11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	08/17/76	1544129	1232.0
11/04/81 1788136 0.0 03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	06/01/77	1627778	1037.0
03/04/83 1788136 99.0 05/17/85 1795672 1561.0 04/22/90 1809470 1512.0		1787492	1024.0
05/17/85 1795672 1561.0 04/22/90 1809470 1512.0	11/04/81	1788136	0.0
04/22/90 1809470 1512.0	03/04/83	1788136	99.0
		1795672	1561.0
$11/04/92$ 1814547 $1380.0 \leftarrow (.)(18.0 \pm)$		1809470	
	11/04/92	1814547	1380.0

Page No.: 4
Print Time: Mon Nov 04 16:10:32 1996

Property ID: 1774

Property Name: SAN JUAN 28-5 UNIT | 57M | 53423B-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

	CUM_GAS Mcf	M SIWHP Psi			
11/12/81 09/03/82 09/19/83 05/01/84 05/17/85 11/09/88 07/31/90 03/29/92 05/24/93	0 40228 189842 260154 299227 452924 553798 622798 678486	1435.0 1519.0 944.0 558.0 552.0 536.0 522.0 822.0 511.0≪	- Corrent	Dakota 28-	Offset 5 #35m

Page No.: 5

Print Time: Mon Nov 04 16:10:33 1996

Property ID: 1776
Property Name: SAN JUAN 28-5 UNIT | 59 / 50675A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

	CUM_GAS				
10/30/62	0	2699.0		Dakota 28-5	Offsel
11/28/62	0	2698.0		Darota	
03/21/63	62000	2414.0			4 35m
05/26/64	260000	2176.0		78-9	サンルハ
10/18/65	559000	1746.0			
06/07/66	689000	1965.0			
05/25/67	844000	1557.0			
05/27/68	1047000	1417.0			
08/18/69	1255084	1317.0			
07/28/70	1380561	1274.0			
06/22/71		1232.0			
06/07/72		1152.0			
07/23/73		1165.0			
04/30/75		1072.0			
06/01/77		1049.0			
06/07/79	2165728	1050.0			
05/01/81	2266029	1085.0			
03/04/82	2295796	1064.0			
09/19/83	2354456	1085.0			
11/18/85		1039.0			
11/10/88	2511812	1016.0			
04/22/90	2562823	1022.0			
11/21/92	2606661	1001.0	- Current		

Page No.: 6
Print Time: Mon Nov 04 16:10:33 1996
Property ID: 1777
Property Name: SAN JUAN 28-5 UNIT | 59M | 53424B-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

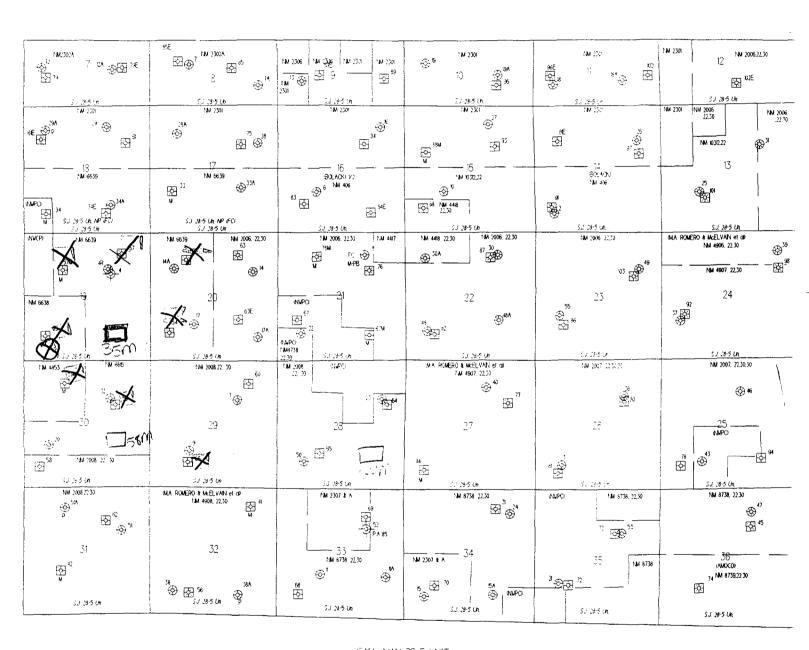
	-DATE	CUM_GAS Mcf	M SIWHP	
1	1/11/81	0	1978.0	Dakota Offset
	3/04/82	47673	1120.0	
	9/19/83	262274	611.0	28-5 # 35M
1	1/01/84	385862	612.0	
1	1/18/85	483650	593.0	
1	1/09/88	634868	584.0	
0	4/22/90	722677	612.0	
0	5/28/92	800657	718.0	
0	5/24/93	834299	638.0-	< wrent

Page No.: 7
Print Time: Mon Nov 04 16:10:34 1996

Property ID: 1786

Property Name: SAN JUAN 28-5 UNIT | 66 | 50695A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

	CUM_GAS Mcf				
12/06/62	0	2737.0			
12/30/62	0	2736.0		<	A Col
08/26/63	137000	2370.0		Dakota 28.5	UTTSU
04/22/64	224000	2242.0		Daro	ممريحه ال
06/21/65	499000	2076.0		78-5	# 35M
05/23/66	751000	1924.0			
05/26/67	1017000	1782.0			
05/20/68	1376000	1580.0			
05/15/69		1364.0			
06/19/70	1978344	1373.0			
04/27/71	2196845	1236.0			
05/15/72	2471108	1171.0			
07/05/73	2731127	1138.0			
04/30/75	3098131	992.0			
06/01/77	3597270	855.0			
05/01/79		954.0			
05/04/81	4270027	715.0			
09/19/83	4553194	800.0			
05/17/85	4731556	749.0			
10/23/88		887.0			
04/21/90	5207326	766.0	ساجد میں م		
09/01/92	5437954	732.0	e-wrient		



#- DK Offset wells used for which AVG PSI

B) mv offset

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 11627 ORDER NO. R-10695

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 28-5 UNIT PURSUANT TO DIVISION RULE 303.E. AND THE ADOPTION OF SPECIAL ADMINISTRATIVE RULES THEREFOR, SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on October 17 and November 7, 1996, at Santa Fe, New Mexico, before Examiners David R. Catanach and Michael E. Stogner, respectively.

NOW, on this 12th day of November, 1996, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Burlington Resources Oil & Gas Company (Burlington), pursuant to the provisions of Division Rule 303.E., seeks to establish a downhole commingling "reference case" to provide exceptions for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 28-5 Unit, San Juan County, New Mexico.

(3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

"If sufficient data exists on a lease, pool, formation, geographic area, etc., so as to render it unnecessary to repeatedly provide such data on Form C-107-A, an operator may except any of the various criteria required under Paragraph 303.D. of this rule by establishing a "reference case". The Division, upon its own motion, or by application from an operator, may establish "reference cases" either administratively or by hearing. Upon Division approval of such "reference cases" for specific criteria, subsequent applications to downhole commingle (Form C-107-A) will be required only to cite the Division order number which established such exceptions and shall not be required to submit data for those criteria."

- (4) The applicant is the current operator of the San Juan 28-5 Unit which encompasses some 17,399 acres in Township 28 North, Range 5 West, NMPM, San Juan County, New Mexico.
- (5) Within the San Juan 28-5 Unit, the applicant currently operates sixty-seven (67) Basin-Dakota Gas Pool wells, seventy-one (71) Blanco-Mesaverde Gas Pool wells, sixteen (16) Gobernador-Pictured Cliffs, Oso-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and nineteen (19) Basin-Fruitland Coal Gas Pool wells.
 - (6) According to its evidence and testimony, Burlington seeks to:
 - a) establish a "reference case" for marginal economic criteria in the Dakota and Pictured Cliffs formations whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit. The applicant further proposes that the data provided in the immediate case serve as supplemental data or confirmation that these formations and/or pools should be classified as "marginal";
 - b) establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formations whereby the Division may utilize data provided in the immediate case to verify the pressure data provided on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit:

- establish a "reference case" whereby the Division utilizes the data presented in the immediate case to endorse or approve certain methods of allocating production whereby the applicant need not submit additional data or justification when proposing a certain method of allocating production on Form C-107-A's subsequently filed for wells within the San Juan 28-5 Unit; and,
- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 28-5 Unit without additional notice to each affected interest owner as required by Division Rule No. 303.D.
- (7) In support of its request to except marginal economic criteria, the applicant presented geologic and engineering evidence and testimony which indicates that within the San Juan 28-5 Unit:
 - a) the structure and thickness of the Dakota and Pictured Cliffs formations are very consistent;
 - b) the average recoverable Dakota and Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 1,258 MMCFG and 77 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 276 MCFGD and 136 MCFGD, respectively; and,
 - d) the estimated ultimate gas recoveries and initial producing rates from the Dakota and Pictured Cliffs formations are insufficient to justify drilling stand alone wells and/or dually completed wells to recover such gas reserves.
- (8) The evidence and testimony presented by the applicant indicates that the Dakota and Pictured Cliffs formations within the San Juan 28-5 Unit should be properly classified as "marginal".
- (9) In support of its request to except pressure criteria within the Dakota and Pictured Cliffs formations within the San Juan 28-5 Unit, the applicant presented engineering evidence and testimony which indicates that:

- a) the average shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations at the time of initial development were approximately 3,149 psi and 1,143 psi, respectively; and.
- b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations are approximately 1,059 psi and 714 psi, respectively.
- (10) There is sufficient pressure data available within the San Juan 28-5 Unit so as to except pressure criteria as proposed by the applicant.
- (11) The applicant testified that various allocation methods will be utilized for downhole commingled wells within the San Juan 28-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:
 - a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone;
 - b) a fixed allocation formula will be utilized in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.
- (12) The allocation methods proposed by the applicant are routinely utilized by industry and approved by the Division and therefore, the proposal to except allocation formulas should be approved.
- (13) In support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 28-5 Unit the applicant presented evidence and testimony which indicates that:
 - a) the interest ownership between two zones within a given wellbore in the San Juan 28-5 Unit is generally not common;
 - b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the San Juan 28-5 Unit every time a Form C-107-A is submitted to the Division. There are a considerable number of such interest owners within the unit;

- c) providing notice to each interest owner within the San Juan 28-5
 Unit of subsequent downhole comminglings is unnecessary and is an excessive burden on the applicant;
- d) the downhole commingling of wells within the San Juan 28-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 28-5 Unit should not violate the correlative rights of any interest owner:
- e) no interest owner appeared at the hearing in opposition to the establishment of a "reference case" or administrative procedure for notice.
- (14) An administrative procedure should be established within the San Juan 28-5 Unit for obtaining approval for subsequent downhole commingled wells without notice to Unit interest owners, provided however that, all other provisions contained within Division Rule No. 303.C. are complied with.
- (15) Approval of the proposed "reference cases" for marginal economic criteria, pressure criteria, allocation formulas and notice will lessen the burden on the applicant insofar as providing the data required pursuant to Division Rule No. 303.D. and Form C-107-A, will provide the applicant a streamlined method for obtaining downhole commingling approvals within the San Juan 28-5 Unit, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Burlington Resources Oil & Gas Company to establish a "reference case" for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 28-5 Unit, San Juan County, New Mexico, is hereby approved.

- (2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 28-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify the Pictured Cliffs and Dakota pressure information provided, and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.
- (3) In order to obtain Division authorization to downhole commingle wells within the San Juan 28-5 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the San Juan 28-5 Unit of such proposed commingling.
- (4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LeMAY

Director

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