DISTRICT

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835 DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107-A New 3-12-96 **APPROVAL PROCESS:**

OIL CONSERVATION DIVISION

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

X Administrative ___Hearing

APPLICATION FOR DOWNHOLE COMMINGLING **EXISTING WELLBORE** 1000 Rio Brazos Rd, Aztec, NM 87410-1693 _X_YES __ NO **Burlington Resources Oil & Gas Company** PO Box 4289, Farmington, NM 87499 Address San Juan 27-5 Unit 138E O 19-27N-05W Rio Arriba Well No Unit Ltr. - Sec - Twp - Rge County Spacing Unit Lease Types: (check 1 or more) OGRID NO. 14538 __ Property Code _7454___ API NO. 30-039-23758____Federal _ , State , (and/or) Fee The following facts are submitted in support of downhole commingling: Intermediate Zone Upper 2014 1. Pool Name and Pool Code Wildcat Cereza Canyon Gallup - 96766 Basin Dakota - 71599 6750' - 7151' 2. Top and Bottom of Pay Section (Perforations) 7560' - 7748' 3. Type of production (Oil or Gas) gas 4. Method of Production (Flowing or Artificial Lift) flowing flowing (Current) a. 1570 5. Bottomhole Pressure a. 864 Oil Zones - Artificial Lift:
Estimated Current
Gas & Oil - Flowing:
Measured Current ON DIV (Original) b. 1570 b. 2741 All Gas Zones: Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTU Content RTU 1224 BTU 1219 7. Producing or Shut-In? producing Shut-in Production Marginal? (yes or no) ves no If Shut-In and oil/gas/water rates of last production Date: n/a Date: Date: n/a Rates Qates: Rates: 3/110/0 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 water of recent test (within 60 days) Date: Date: n/a Date: Rates: 160 MCF/D Rates: Rates 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) Gas: Gas: Oil: Oil: % will be supplied upon completion will be supplied upon completion 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? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? ___Yes __x_No __Yes __x_No _x_Yes ___No 11. Will cross-flow occur? _x__ 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. __x__ Yes ____No _ (If No, attach explanation) 12. Are all produced fluids from all commingled zones compatible with each other? _x_ Yes ___ No 13. Will the value of production be decreased by commingling? ___ Yes _X_ 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. _X_Yes ___ No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). ___R-10694 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.

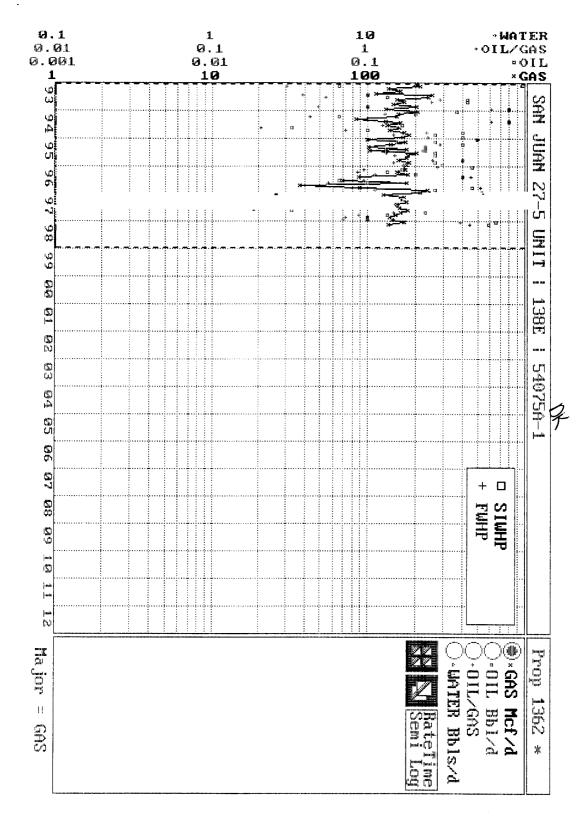
* Notification list of all offset operators.

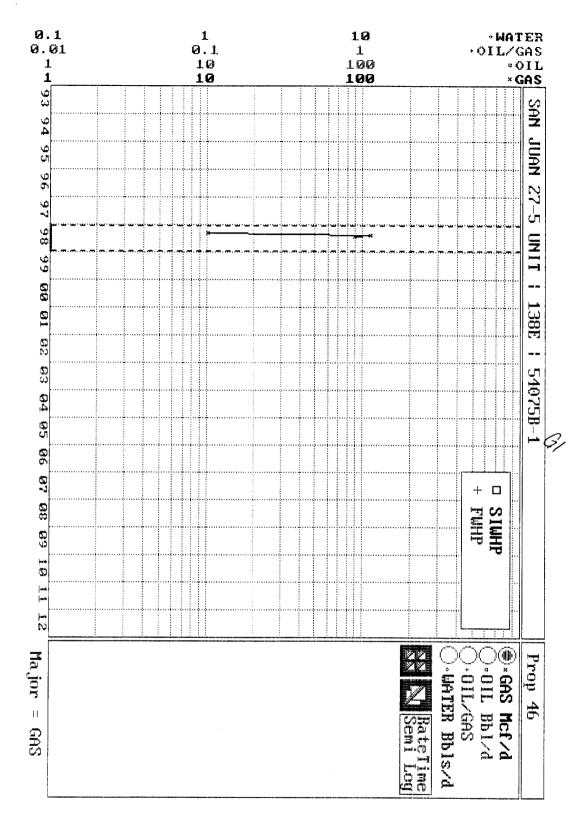
* Notification list of working, overriding, and royalty interests for uncommon interest cases.

* 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. ______TITLE_Production Engineer___ SIGNATURE < ___DATE __ TYPE OR PRINT NAME __Jennifer Dobson TELEPHONE NO. (505) 326-9700

				,	State of Ne	w Mevico				Form C-102
	a.	99241-198 0	₹	F		al Resources Departm	./	I	nstruct	ary 21, 1994 lons on back
	14	M 88211-07	719	OIL	CONSERVAT	OFSIXIO NOI)Ń-	Stat	e Lease	trict Office e - 4 Copies e - 3 Copies
٠	o Pari Az	tec. NM 874	110	San			`		MENIDE	D REPORT
- % 	Lenta Fe.	NM 87504-2	2088			87504-2088 97 DEC -2	Pil 1.03	☐ A1	MENUE	D REPURI
				· OCATI	ירו אום או	CREAGE DEDI	M. MAI	ΔΤ		
A	PI Number		WELL	Pool Cod		HEAGEV BLDI	Pool Name		· · ·	
<i>∳</i> 6- 039-			9676	66/715		Cereza Cany	on Gallup	/Basi	n Dak	ota 1 Number
*Mroperty	Code			S	Property AN JUAN 2					38E
7454 'OGAID N	√				*Operator	Name	COMPANY			evariou
14538			BURLI			OIL & GAS	COMPANY			6603.
u or lot no.	Section	Township	Range	Lot Ion	10 Surface	LOCATION North/South line	Feet from the	East/Hes	t line	County
0	19	27N	5W		800	South	1650	Eas	st	RIO ARRIBA
			ottom	Hole L	ocation I	f Different	From Sunf	ace East/Wes	t line	County
UL or lot no.	Section	Townshab	Range		1000 1100					
Dedicated Acres		13 Jount or Int	fill ^M Cone	olidation Code	²⁵ Order No.					
DE E/320	1	<u> </u>			TR COMPLETI	ON UNITE ALL	THITEDESTS H	IAVE RE	EN CON	ISOI TOATED
NO ALLOW	VABLE W	IILL BE A	NON-5	D 10 IF	UNIT HAS B	ON UNTIL ALL EEN APPROVED	BY THE DIVI	SION		
16				X ///			I hereby cen	tify that the	anformet son	FICATION CONCESSION 15
		1				! -surveyed:		Diete to tre	DESCOT MY	uripulaidge and Delsef
				[]	Prepare By: Fre	d from plat d B. Kerr	t Jr.			
		1			Dated:	May 1, 1985	5		>	
		- ann					Diag	<u>u</u>]	MAR	wid
Q)EC	EIA	B())			1	De337.		field	
	LUA L	2 6 19	98				Printed	Name		-i at ===================================
	אחת ה	ומסאו	2002				Title	atory	Admi	nistrator
0		000. I	שטער				12-2-	97		
				130			Date 16 SURV	/EYOR	CERTI	FICATION
				-///	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				con grown on this plat al surveys made by me seems is true and
							correct to	the best of R	y belief.	
		1				<u> </u> 		,_,,D	. 20	1007
							Date of		EDU	1997
		¦					Signature e		ME	(4g)
						1650		W W	MEX	6/6
		i			9	1000			6857	OF
					. 00			5 X 1		
]	•	1		'M	um in			ICATE MA	ADEES S	





SJ 27-5 #138E

Bottom Hole Pressures

Cullender and Smith Method Version 1.0 3/13/94

Dakota	
<u>DK-Current</u>	
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG I) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	0.715 C 1.94 0.54 0 2 7767 60 145 110 699
<u>DK-Original</u>	
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	0.715 C 1.94 0.54 0 2 7767 60 145 110 2145

Page No.: 1

Print Time: Tue Aug 11 11:28:16 1998 Property ID: 1362

Property Name: SAN JUAN 27-5 UNIT | 138E | 54075A-1 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

DATE	CUM_GAS	M FWHP-	M FBHP-	M SIWHP Psi	M_SIBHP Psi
08/23/85	0			2145.0	· ·
05/05/86 08/31/87	49213 199243	328.0 291.0		1284.0 847.0	0.0
06/28/88 07/31/90	265301 416587	302.0 278.0		1001.0 1096.0	0.0
07/28/92	554344	342.0		699.00	juri 0.0

08/11/98 INQUIRY

LAND WELL REPORT APPROVED 03/12/98 COMPANY OWNERSHIP

LWR210NL <WELLSTAT

WELL: 54075B SAN JUAN 27-5 UNI 138E

OWNER	PROD	INTEREST %	I-TYPE	TRUST	EVENT	AUTH	INIT	REVISED
21 BROG	ALL	1.976751	ORI		CUR	FW	LKD	03/12/98
21 BROG	ALL	10.312500	NPI		CUR	FW	LKD	03/12/98
21 BROG	ALL	64.164834	NWI		CUR	FW	LKD	03/12/98
21 BROG	ALL	90.275556	GWI		CUR	FW	LKD	03/12/98
21 BROG	ALL	50.414833	IWN		APO1	FW	LKD	03/12/98
21 BROG	ALL	73.608889	GWI		APO1	FW	LKD	03/12/98

TOTAL COMPANY NET/GROSS REVENUE INTEREST: NET: OIL 76.454085 GAS 76.45408

GROSS: OIL 90.275556 GAS 90.27555

** CONTAINS OWNERSHIP REMARKS **

BLOCK POSTING:

PF17=PRIOR PF18=REASON PF20=TOP PF21=RMKS PF11=BACK PF12=MENU PF24=HELP 08/11/98 INQUIRY

LAND WELL REPORT APPROVED 03/12/98 LWR210NL COMPANY OWNERSHIP

<WELLSTAT:

WELL: 54075A SAN JUAN 27-5 UNI 138E

OWNER	PROD	INTEREST %	I-TYPE	TRUST	EVENT	AUTH	INIT	REVISED
21 BROG	OIL	0.024120	RI		CUR	DOU		
21 BROG	OIL	0.040185	UMI		CUR	DOU		
21 BROG	GAS	2.102238	NWI		CUR	DOU		
21 BROG	GAS	2.754308	GWI		CUR	DOU		
21 BROG	GAS	0.024120	RI		CUR	DOU		
21 BROG	GAS	0.040185	UMI		CUR	DOU		
21 BROG	ALL	36.366404	NWI		CUR	DOU	WMB	07/02/98
21 BROG	ALL	52.408291	GWI		CUR	DOU	WMB	07/02/98
21 BROG	ALL	0.004126	RI		CUR	DOU		
21 BROG	ALL	0.914594	ORI		CUR	DOU		

TOTAL COMPANY NET/GROSS REVENUE INTEREST: NET: OIL 44.088527 GAS 46.19076

GROSS: OIL 52.448476 GAS 55.20278

** NO OWNERSHIP REMARKS **

BLOCK POSTING:

PF17=PRIOR PF18=REASON PF20=TOP PF21=RMKS PF11=BACK PF12=MENU PF24=HELP

FDG055M4 1153

WELL PRODUCTION 8/8'S VOLUME 07/22/98 17:19:55

DP NO: 54075B SAN JUAN 27-5 UNIT

DATE: 980709 (YYMMDD FORMAT)

138E SCROLL FORWARD BY DATE: _

\mathbf{c}	
ാ	
_	

E DATE	HOURS	-OIL PRODN	· -	-GAS	PRODN-	-WATER	PRODN-
L PRODUCED	\circ N	(BOPD	BOPM)	(MCFD	MCFM)	(BWPD	BWPM)
			-				
_ 07/09/98	24.0	0.00	0.00	129	1289	0.00	0.00
_ 07/08/98	24.0	0.00	0.00	129	1160	0.00	0.00
_ 07/07/98	24.0	0.00	0.00	129	1031	0.00	0.00
_ 07/06/98	24.0	0.00	0.00	129	902	0.00	0.00
_ 07/05/98	24.0	0.00	0.00	129	773	0.00	0.00
_ 07/04/98	24.0	0.00	0.00	161	644	0.00	0.00
_ 07/03/98	24.0	0.00	0.00	161	483	0.00	0.00
_ 07/02/98	24.0	0.00	0.00	161	322	0.00	0.00
07/01/98	24.0	0.00	0.00	161	161	0.00	0.00
_ 06/30/98	24.0	0.00	0.00	161	4581	0.00	0.00
_ _ 06/29/98	24.0	0.00	0.00	161	4420	0.00	0.00
ENTER I UND	ER SEL	FOR MAINTENANCE					

PF6=NRI PF10=BROWSE MENU

PF11=INQ/UPDATE MENU

PF12=MAIN MENU ENTER=BACKWARDS

PF24=HELP

DP NO: 54075B DATE: 980628 (YYMMDD FORMAT) SAN JUAN 27-5 UNIT 138E SCROLL FORWARD BY DATE: E DATE HOURS -OIL PRODN--GAS PRODN--WATER PRODN-L PRODUCED ON (BOPD BOPM) (MCFD MCFM) (BWPD BWPM) ------_ 06/28/98 24.0 0.00 0.00 161 4259 0.00 0.00 _ 06/27/98 24.0 0.00 0.00 161 4098 0.00 0.00 _ 06/26/98 24.0 0.00 0.00 161 3937 0.00 0.00 _ 06/25/98 24.0 161 3776 161 3615 161 3454 0.00 0.00 0.00 0.00 _ 06/24/98 24.0 0.00 0.00 0.00 0.00 _ 06/23/98 24.0 0.00 0.00 0.00 0.00 161 3293 161 3132 161 2971 _ 06/22/98 24.0 0.00 0.00 0.00 0.00 _ 06/21/98 24.0 0.00 0.00 0.00 0.00 _ 06/20/98 24.0 0.00 0.00 0.00 0.00 _ 06/19/98 24.0 161 2810 161 2649 0.00 0.00 0.00 0.00 06/18/98 24.0 0.00 0.00 0.00 0.00

PF12=MAIN MENU

ENTER I UNDER SEL FOR MAINTENANCE

PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU

ENTER=BACKWARDS

PF24=HELP

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED) OPR008M1 3006 0008 CHROMATOGRAPH TEST MAIN SCREEN 12:26:50.8 08/05/9

EFFECTIVE DATE	85892 19980601 42	SAN JUAN 27-5 U	
SAMPLE TYPE CODE (GA SAMPLE DATE SAMPLE LINE PRESSURE SAMPLE LINE TEMPERAT TEST DATE TEST PRESSURE (PSIG) TEST TEMPERATURE (DE TEST LIFE (MONTHS) TESTER SOURCE BA NUM TEST PURPOSE CODE	(PSIG) TURE (DEG F)	19980601 W14.730 W6	BTU/CF (AT 14.73 PSIG) WET 1197.806 DRY 1219.000 BTU/CF WET _1197.806 DRY _1219.000 VAPOR FACTOR CUM LAND CORP
03=DETAIL SCR 04=M 11=PREV SCR 12=M 21=REFRESH SCR 22=P	AIN MENU		20=NEXT REC

	MOL %	GPM (AT 14.73)	** DATA AT 14.730 PSIG UNLESS NOTED **
HYDROGEN			MP NUMBER 85892
HELIUM			EFFECTIVE DATE 19980601
NITROGEN	1.94		
OXYGEN			
HYDROGEN SULFIDE			GASOLINE CONTENT (GPM)
CARBON DIOXIDE	0.54		26/70 GASOLINE
METHANE			100% PROPANE
ETHANE	_10.89	2.9131	EXCESS BUTANES
PROPANE	4.07	1.1217	TOTAL
ISO-BUTANE	0.52	0.1701	
N-BUTANE	1.20	0.3784	
ISO-PENTANE	0.36	0.1317	SPECIFIC GRAVITY
N-PENTANE	0.41	0.1485	CALCULATED 0.7150
HEXANE			MEASURED
HEXANE PLUS	0.52	0.2269	
HEPTANE PLUS			SULPHER GRAINS / 100 CU FT
TOTALS	100.00	5.0904	
03=MAIN SCREI	= 		24=HELP PA1=TERMINATE

	11/85		09/0	DATE: July 27,1998
	San Juan 27-5 Unit 163M		San Juan 27-5 Unit 114	NAME: SAN JUAN 27-5 UNIT 138E
	93/846 (97)	4	180/2306 (#7) 1/9	FORM: DAKOTA
San Juan 28-6 Unit 183 235/2873 (97) 0/6 [13]	11/73	San Juan 27-5 Unit 137 73/1271 (⁹⁷⁾ [18] 0/0	[17]	LOCATION UNIT: 0 SEC: 19 TWN: 27N RNG: 5W
97.3	San Juan 27-5 Unit 163 107/1395 (97) 0/1	12/85	8/7.1	
San Juan 28-6 Unit 179 82/1339 (97) 0/0		San Juan 27-5 Unit 137E 181/953 (97) 0/1	San Juan 27-5 Unit 123 133/1504 (97) 0/3	
472		4/72	8/71 San Juan 27-5 Unit 131 3/86 132/1387 (97) \$ 0/4	
San Juan 28-6 Unit 171 135/1448 (פי) [24] 0/0		San Juan 27-5 Unit 138 78/1960 (97) [19] 0/3	[20]	1 27 N
11/69	9/71	3/86	San Juan 27-5 Unit 139 152/1582 (97) 0/5	
San Juan 28-6 Unit 146 103/1915 (97) 0/5	San Juan 27-5 Unit 133 212/3013 (97) 0/4	San Juan 27-5 Unit 138E 155/866 (87) 0/1		
8/71		973 San Juan 27-5 Unit 164 111/1216 (97)	4/86 472 . 164 San Juan 27-5 Unit 165M San Juan 27-5 Unit 140 135/719 (97) 170/1534 (97) 0/2 0/5	
San Juan 28-6 Unit 157 166/4001 (87) [26] 0/5	157 4772	[30]	[62]	
San Juan 28-6 Unit 110 104/1986 (97) 0/6	J San Juan 27-5 Unit 141 146/2742 (97) 0/4		973	LEGEND COMPLETION DATE
San Juan 28-6 Unit 157M 261/323 (97)	IS7M	San	San Juan 27-5 Unit 165 172/1698 (97)	WELL NAME MCF/D-CUM(MMF)
			1/8	BOPD-CUM (MBO)

R-6-W

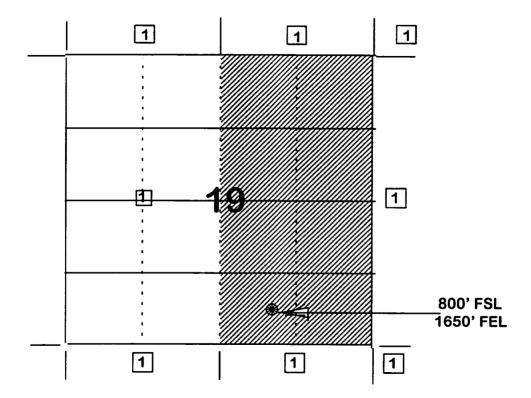
R-5-W

BURLINGTON RESOURCES OIL AND GAS COMPANY

OFFSET OPERATOR \ OWNER PLAT San Juan 27-5 Unit #138E

Gallup (SE/4)/Dakota (E/2) Formations Commingle Well

Township 27 North, Range 5 West



1) Burlington Resources

R-6-W	[25]	[24]	[ELJ]
R-5-W	[30]	[19] 4/98 * San Juan 27-5 Unit 138E 110/3 (99) 0/0	[18]
	[29]	[20]	[17]
	LEGEND COMPLETION DATE WELL NAME MCF/D-CUM(MMF) BOPD-CUM (MBO)	Z 7	DATE: July 27,1998 NAME: SAN JUAN 27-5 UNIT 138E FORM: GALLUP LOCATION UNIT: O SEC: 19 TWN: 27N RNG: 5W

Company: BURLINGTON RESOURCES County: SAN JUAN 27-5 NO. 138-E Well: State:

Field: Engineer: Gauge Type:

Gauge Range:

7050 ft Gauge Depth:

Serial No.:

Tubing: 1.5

Tubing: Casing:

Perfs.:

Shut-in BHP

TO 7111 TO

TO

Dil Level H20 Level

File Name: 33748

Date:

Status:

7050 ft Shut-in BHT o F 1570 9 OF Shut-in WHT 1050

Shut-in WHP 1260 Casing CSGP

D Tefteller Incorporated 3

RID ARRIBA

NEW MEXICO

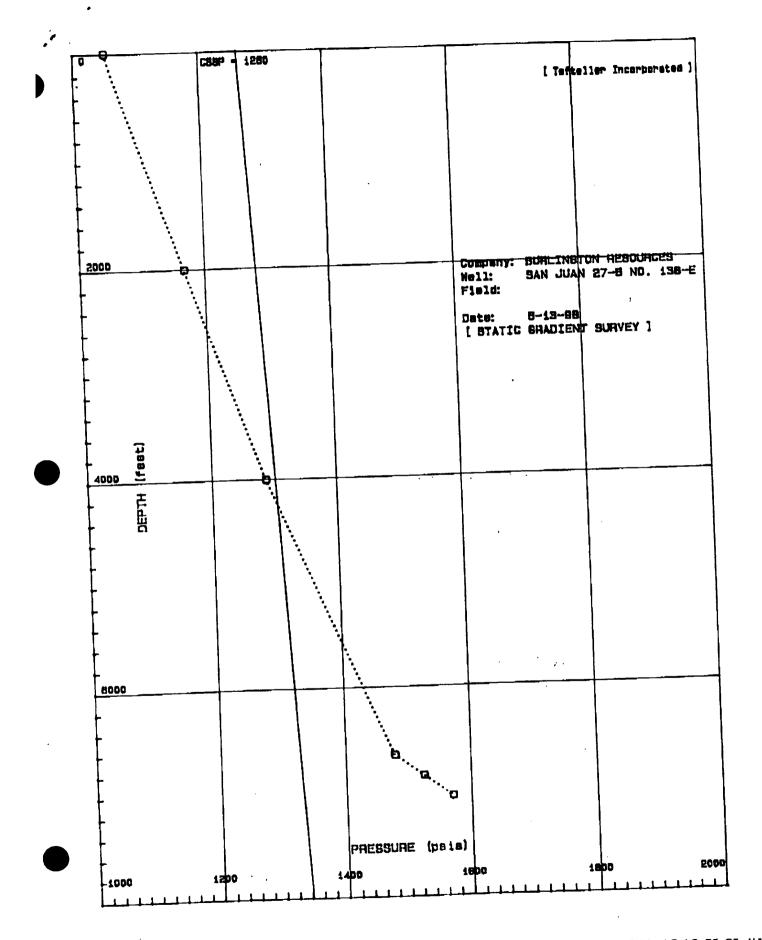
SHUT IN 5 DAYS

o ft

5-13-98

Well Type: Test Type: STATIC GRADIENTS

PSI/ft PRESSURE TVD MD 1050.00 0 0 0.058 1166.00 2000 2000 5 1286.00 0.060 4000 4000 3 0.072 1478.00 4650 6650 0.230 1524.00 6850 6850 5 0.230 1570.00 7050 7050



TO: MERIDIAN PHUE: 82

209749816

MAY-18 98 14:34 FROM: TEFTLER INC

Williams Field Services Salt Lake City, Utah CERTIFICATE OF ANALYSIS For production month 05/98 06/10/98 14:47:11 PAGE

Station ID:

85892

Station Name:

SJ 27-5 UNIT #138E COMMINGLE

Analysis Source: 85892

Lab Indentifier: K001 Effective Date: 05/01/98

Operator: 005080 Analysis ID: 238298 Analyzed Date: 05/05/98

Sample On Date: 05/04/98 Sample Off Date: 05/04/98

Sample Type:

Component Mol 🖁 GPM -----Helium 0.0000 CO 0.0000 CO2 0.5380 N2 2.9250 Methane (C1) 78.1969 Ethane (C2) 10.7771 2.882 Propane (C3) 4.1440 1.142 I-butane (IC4) 0.5500 0.180 N-butane (NC4) 1.2820 0.404 I-pentane (IC5) 0.4020 0.147 N-pentane (NC5) 0.4010 0.145 Hexanes (C6) 0.7840 0.342 Heptanes (C7) Octanes (C8) Nonanes (C9)

> TOTAL 100.0000 5.242

Calculation Parameters:

Specific Gravity @ 60 deg.F (AIR=1) Ideal Gravity:

0.7266 0.7288

Sample Gravaty: Z Factor:

Decanes (C10)

0.9966

BTU Calculated/cubic ft @ 60 deg.F

Ideal BTU:

1219.6631

Dry BTU @ 14.730: 1223.8575

Remark: C6

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. 11626 ORDER NO. R-10694

APPLICATION OF BURLINGTON RESOURCES
OIL & GAS COMPANY FOR THE ESTABLISHMENT
OF A DOWNHOLE COMMINGLING "REFERENCE
CASE" FOR ITS SAN JUAN 27-5 UNIT PURSUANT
TO DIVISION RULE 303.E AND THE ADOPTION
OF SPECIAL ADMINISTRATIVE RULES THEREFOR.
SAN JUAN COUNTY, NEW MEXICO.

20 ARRIBA

etan ili terili e traven elem ili eggi ese e la li file il eggi ese gali e il ili alli

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 har jurisdiction of this cause and the subject matter thereof.
- pursuant to the provisions of Division Rule 303.E.. seeks to establish a downhol commingling "reference case" to provide exceptions for (a) marginal economic criteria (b) pressure criteria. (c) allocation formulas and (d) modification of notification rules o a unit-wide basis for downhole commingling of Dakota. Mesaverde. Fruitland Coal an Pictured Cliffs gas production within existing or future drilled wells within the San Jua 27-5 Unit, San Juan County, New Mexico.
- (3) Division Rule No. 303.E., amended by Order No. R-10470-A. current:

"If surficient 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 27-5 Unit which encompasses some 23.043 acres in Township 27 North, Range 5 West, NMPM. San Juan County, New Mexico.
- (5) Within the San Juan 27-5 Unit, the applicant currently operates one hundred and one (101) Basin-Dakota Gas Pool wells, one hundred and five (105) Blanco-Mesaverde Gas Pool wells, eighty-seven (87) South Blanco-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and four (4) Basin-Fruitland Coal Gas Pool wells.
 - (6) According to its evidence and testimony, Burlington seeks to:
 - 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 27-5 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 27-5 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 27-5 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 27-5 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 27-5 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 583 MMCFG and 426 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 393 MCFGD and 63 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 27-5 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 27-5 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 3.141 psi and 1.118 psi, respectively; and.
- b) the average current shur-in bottomhole pressure within the Dakota and Pictured Cliffs formations are approximately 1.032 psi and 441 psi, respectively.
- (10) There is sufficient pressure data available within the San Juan 27-5 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 27-5 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 ailocation methods proposed by the applicant are routinely utilized t industry and approved by the Division and therefore the proposal to except ailocatic 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 27-5 Unit the applicant present evidence and testimony which indicates that:
 - a) the interest ownership between two zones within a given weilbore in the San Juan 27-5 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 27-5 Unit every time a Form C-107-A is submitted to the Division. There is a considerable number of such interest owners within the unit:

et ekkironen kan kan menjelar di seleman di termina di kan di

- c) providing notice to each interest owner within the San Juan 27-5
 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 27-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 27-5 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 27-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 criteric pressure criteria, allocation formulas and notice will lessen the burden on the applications for as providing the data required pursuant to Division Rule No. 303.D. and Form to 107-A, will provide the applicant a streamlined method for obtaining downing commingling approvals within the San Juan 27-5 Unit, and will not violate correlativishts.

IT IS THEREFORE ORDERED THAT:

(1) The application of Burlington Resources Oil & Gas Company to establia "reference case" for (a) marginal economic criteria. (b) pressure criteria. (c) allocati formulas and (d) modification of notification rules on a unit-wide basis for downhold commingling of Dakota. Mesaverde. Fruitiand Coal and Pictured Cliffs gas producti within existing or future drilled wells within the San Juan 27-5 Unit. San Juan Coun New Mexico, is hereby approved.

- (2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole communised within the San Juan 27-5 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 commungle wells within the San Juan 27-5 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 27-5 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 I LEMAY

Director

S E A L