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:

> _X_ Administrative ___Hearing

EXISTING WELLBORE

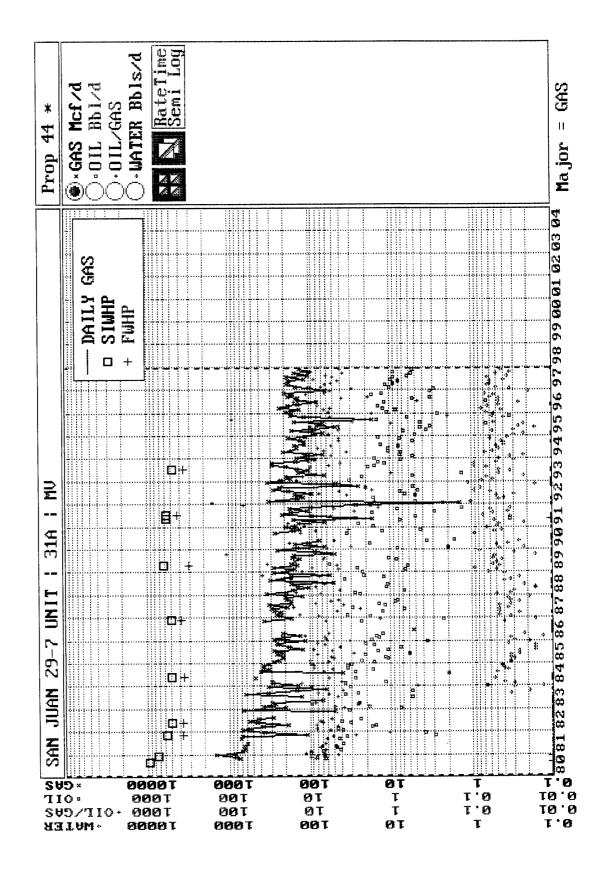
APPLICATION FOR DOWNHOLE COMMINGLING

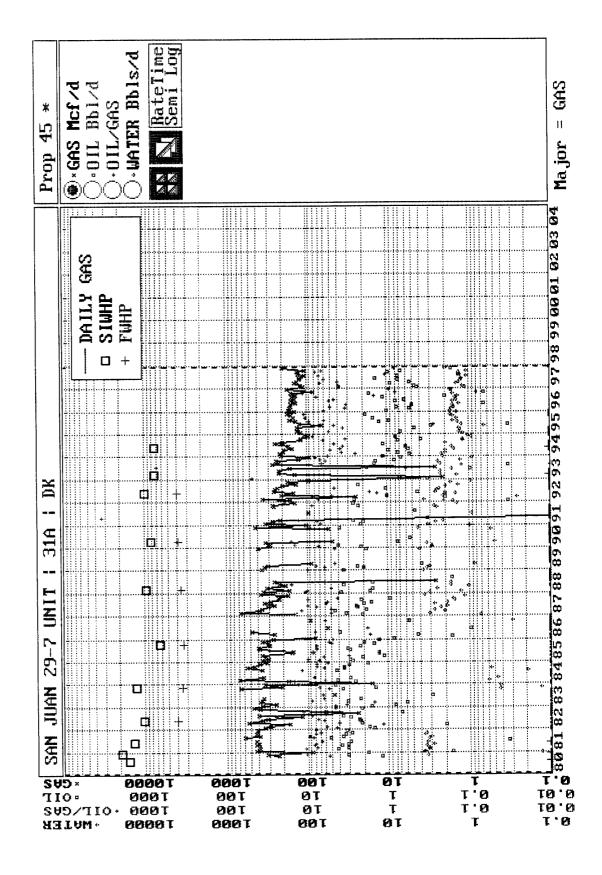
X_YES __NO

Ban Juan 29-7 Unit	#31-A	J-32-29N-07W	R	io Arriba
110	Well No.	Unit Ltr Sec - Twp - Rge		County nit Lease Types: (check 1 or more)
GRID NO. <u>14538</u> Property Co	ode7465	API NO30-039-22065	Federal	_x, State _X_, Fee
The following facts are submitted in support of downhole		Zone	termediate Zone	kover Zano
ommingling;				
Pool Name and Pool Code	Blanco Mesa	averde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	5062'-5990'	. Para magas		7708'-7918'
3. Type of production (Oil or Gas)	Gas			Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing	DEG	EINEU	Flowing
5. Bottomhole Pressure	(Current) a. 458 psi	n/ S		a. 728 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current	(see attachi	ment) PLB	2 5 1998	
Gas & Oil - Flowing: Measured Current All	(Original) b. 1112 psi or (see attact	hment)	ON. DIV.	b. 1976 psi (see attachment)
Measured Original		V	Mis Buys	BTU 1139
8. Oil Gravity (°API) or Gas BTU Content	BTU 1181		7510 Q	B10 1139
7. Producing or Shut-In?	Producing		Carlo Service	. Producing
Production Marginal? (yes or no) Yes			No
If Shut-In and oil/gas/water	Date: N/A			Date: N/A
rates of last production Note: For new zones with no production histor applicant shall be required to attach productio selimates and supporting data	Rates:			Rates:
	<u> </u>			Date: 11/97
 If Producing, give data and oil/gas/water water of recent tes (within 60 days) 	Date: 11/97 Rates: 131 mc 0.53 bd	ifd ipd		Rates: 200 mcfd 0.17 bopd
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplie	ed upon completion.		Will be supplied upon completion.
 Are all working, overriding, If not, have all working, ove Have all offset operators be 	and royalty inte rriding, and roy een given writte	thing other than current or pa and/or explaining method and parests identical in all commingle alty interests been notified by a n notice of the proposed downly	ed zones? certified mail? nole commingling?	Yes _X_No Yes _X_No _A_YesNo
		yes, are fluids compatible, will cation formula be reliable. X		
-		d zones compatible with each o		
3. Will the value of production 4. If this well is on or commi	pe gecreased b unitized with, st	oy commingling? Yes _X_N tate or federal lands, either th	e Commissioner of	
		tate or federal lands, either th		
		xceptions: ORDER NO(S). <u>Re</u>		
8. ATTACHMENTS: * C-102 for each zo * Production curve * For zones with no * Data to support a * Notification list o * Notification list o * Any additional st	one to be comme for each zone to production his allocation metho of all offset oper f working, over atements, data,	ingled showing its spacing unit for at least one year. (If not ava itory, estimated production rate od or formula. ators. riding, and royalty interests for , or documents required to sup	and acreage dedicaliable, attach explaises and supporting definition of the common interest port commingling.	ation. nation.) ata. : cases.
		eve is true and complete to		
SIGNATURE - Jom	force-	TITLEProduction I	Engineer I	DATE02-23-98
TYPE OF PRINT NAME	I Tom Lov	elandTELEPHONE	NO. (505)	326-9700

stances must be from the outer boundaries of the Section ()perator EL PASO NATURAL GAS COMPANY (B-10037-47) Unit Letter Section County 29N 7W RIO ARRIBA Actual Feature Location of Well: South feet from the 1770 line and East Grour. i Level Elev. Producing Formation Pool Basin Dakota Blanco Mesa Verde Dedicated Acreager 320.00 6723 Mesa Verde - Dakota 320.00 & 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 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. CERTIFICATION THIS PLAT IS REISSUE TO SHOW DUAL COMPLETION I hereby certify that the information con-MESA VERDE & DAKOTA. tained herein is true and complete to the B-10037-47 B-10037-46 3-27-79 best of my knowledge and belief. Drilling Clerk 0 EI Paso Natural Gas Co. B-10037-46 B-10037-42 August 7, 1979 Sec B-10037-47 I hereby certify that the well location shown on this plat was plotted from field 1770 under my supervision, and that the same is true and correct to the best of my knowledge and belief. B-10037-51 OIL COM. COM.

1650 1980





San Juan 29-7 Unit #31A Bottom Hole Pressures Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Dakota
DK-Current
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.11 %CO2 1.38 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 728.2
<u>DK-Original</u>
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.38 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1975.7

Page No.: 19
Print Time: Tue Aug 19 13:40:42 1997
Property ID: 4401
Property Name: SAN JUAN 29-7 UNIT | 31A | 69321-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

DATE	CUM OIL-	CUM GAS	M_SIWHP				
	Bbl	Mcf	Psi				
				1 A I			
08/18/80		0	957.0	DRIGINAL			
12/05/80		48030	742.0				
11/09/81		263957	579.0				
05/25/82		344118	512.0				
06/01/84		527536	510.0				
12/01/86		705008	507.0				
04/14/89		873558	622.0				
05/20/91		962778	575.0				
07/10/91		972070	587.0				
07/05/93		1090872	490.0				
11/30/97		1,308,529	400.0	CURRENT -	ESTIMATED	FROM	P/Z DATA

Page No.: 7
Print Time: Tue Aug 19 13:40:28 1997
Property ID: 2105
Property Name: SAN JUAN 29-7 UNIT | 31A | 69323-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

<u>DATE</u>		CUM_GAS		
	Bbl	Mcf	Psi	
08/11/80		0	1.004.0	ORIGINAL
, ,		=	1604.0	0/4/01/11/10
12/05/80		16502	1942.0	
05/21/81		82650	1390.0	
05/25/82		216588	1039.0	
11/01/83		351064	1253.0	
09/25/85		547443	649.0	
03/03/88		745016	951.0	
04/08/90		840030	830.0	
05/28/92		932395	995.0	
03/19/93		982295	738.0	
05/31/94		1054484	738.0	
11/30/97		1,244,239	605.0	CURRENT- ESTIMATED FROM P/Z DATA

Page No.: 5

Print Time: Mon Feb 09 07:37:36 1998

Property ID: 15
Property Name: SAN JUAN 29-7 UNIT | 31A | MV
Table Name: S:\ARIES\78LTL\PRODUCT.DBF

3923/30 = 130.8 MCFD

DATE	Bbl	GAS <u></u> Mcf	WATER Bbls	NO WE DA	INJ_VOL Bbls	<u>INJ_PR DA</u> Psi	<u></u> GA Sc
01/31/96	33	5834	20	31			1767
02/29/96	26	3987	13	29			153 3
03/31/96	37	6975	23	31			1885
04/30/96	43	5537	19	30			1287
05/31/96	0	4111	14	26			
06/30/96	36	2381	8	23			661
07/31/96	2	4277	14	31			****
08/31/96	16	4159	14	31			259 9
09/30/96	10	5433	18	30			543 3
10/31/96	50	4743	16	31			948
11/30/96	38	6089	21	30			1602
12/31/96	10	1865	6	31			1865
01/31/97	9	3026	10	0			3362
02/28/97	31	4463	15	0			1439
03/31/97	34	5582	19	0			1641
04/30/97	28	5327	18	0			1902
05/31/97	24	5444	18	0			2268
06/30/97	30	3460	12	22			1153
07/31/97	28	5652	19	31			2018
08/31/97	19	3127	11	31			1645
09/30/97	17	4508	15	30			2651
10/31/97	28	3036	10	29			1084
11/30/97	16	3923	13	30			2451
12/31/97	/ 0	0	0	0			
	16/30	DAMS = 0.53 (ВОРД				

Page No.: 5
Print Time: Tue Feb 03 10:24:14 1998
Property ID: 16

Property Name: SAN JUAN 29-7 UNIT | 31A | DK Table Name: S:\ARIES\78LTL\PRODUCT.DBF

DATE	OIL Bbl	GAS Mcf	WATER Bbls	NO WE DA	INJ_VOL Bbls	INJ_PR DA Psi	<u></u> GI S∈
01/31/96	31	5132	52	31			1655
02/29/96	16	4929	50	29			308
03/31/96	23	4661	47	31			202€
04/30/96	15	4703	48	30			3135
05/31/96	2	4090	41	28			***
06/30/96	24	4687	48	23			1952
07/31/96	19	4258	43	31			2241
08/31/96	34	4549	46	31			1331
09/30/96	6	4147	42	30			691:
10/31/96	51	4691	48	31			911
11/30/96	2	2500	25	30			***
12/31/96	5	5261	53	31			***
01/31/97	13	3376	34	0			259€
02/28/97	14	3628	37	0			259:
03/31/97	28	4254	43	0			151
04/30/97	16	3991	40	0			،249
05/31/97	22	3701	38	0			1681
06/30/97	42	3725	38	24			88€
07/31/97	22	3244	33	31			1474
08/31/97	4	3807	39	31			951 ⁻
09/30/97	30	3957	40	30			131
10/31/97	21	3222	33	29			،153
11/30/97	_ 5	6009	61	30			***
12/31/97	/ 0	0	0	0			

5/30 = 0.17 BOPD6009/30 = 200.3 BO MCFD

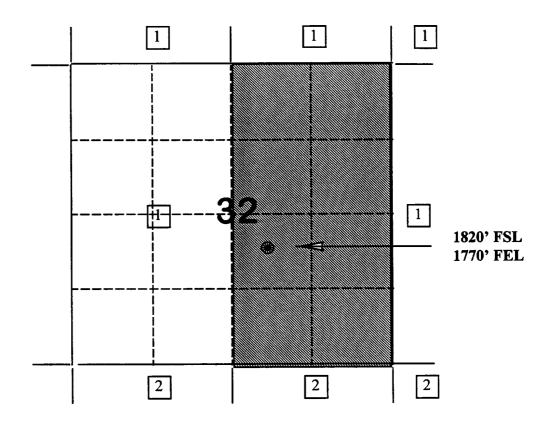
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 29-7 Unit #31A

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 29 North, Range 7 West



- 1) Burlington Resources
- 2) Conoco, Inc. 10 Desta Drive, Suite 100W Midland, TX 79705-4500

109 98 ☆	1 NAS 1961 4.5	124M 40	E
11630 78 88	99 29 113M \$112 83	124 28 41 ₀ × 40A	59 �
111M 110 95 110 ©	2	114M 7 88 77E	7
11:31 1101 88 96	SAN JUAN 29-7 M 32E J 2 32 B B	#31A 11433 97⊕⊠ 77A	
	1	241 241 ₂₁ 9 ²⁴¹ E ²¹ A ⊕ 9 🕱 ⊕	61 235 X
♥ ※	22 \ \&\ 2	195E 31M 488 88 ©	255 図
18 8A ⊕ 2485æ	239 1 7 22A №2 22A №	23년 図	255E

PLH 12/10/97

SAN JUAN 29-7 #31A SEC. 35, T29N, R7W MESAVERDE/DAKOTA

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. 11629 ORDER NO. R-10697

APPLICATION OF BURLINGTON RESOURCES OIL & GAS COMPANY FOR THE ESTABLISHMENT OF A DOWNHOLE COMMINGLING "REFERENCE CASE" FOR ITS SAN JUAN 29-7 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 8th 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 29-7 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 29-7 Unit which encompasses some 22,500 acres in Township 29 North, Range 7 West, NMPM, San Juan County, New Mexico.
- (5) Within the San Juan 29-7 Unit, the applicant currently operates fifty-five (55) Basin-Dakota Gas Pool wells, one hundred thirty-one (131) Blanco-Mesaverde Gas Pool wells, thirteen (13) Blanco-Pictured Cliffs and South Blanco-Pictured Cliffs Gas Pool wells, and forty-nine (49) 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 29-7 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 29-7 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 29-7 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 29-7 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 29-7 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 245 MMCFG and 76 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 218 MCFGD and 238 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 29-7 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 29-7 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 was approximately 3,209 psi and 1,148 psi, respectively; and,
 - b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations is approximately 952 psi and 655 psi, respectively.

- (10) There is sufficient pressure data available within the San Juan 29-7 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 29-7 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 29-7 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 29-7 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 29-7 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 29-7
 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 29-7 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 29-7 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 29-7 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 29-7 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 29-7 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 29-7 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 29-7 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 29-7 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/

S E A L







Job separation sheet

State of New Mexico Energy, Minerals and Natural Resources/Department Oil Conservation Division

	Sundry Notices and Ro	eports on Wells	
		API	# (assigned by OCD) 30-039-22065
1. Type of Well GAS		5.	Lease Number
		6.	State Oil&Gas Lease # B-10037-83-NM
2. Name of Operator		7.	Lease Name/Unit Name
RESOURCES OIL S	GAS COMPANY	8.	San Juan Unit 29-7 Well No.
3. Address & Phone No. of Operat	or		#31A
PO Box 4289, Farmington, NM	87499 (505) 326-9700	9.	Pool Name or Wildcat Blanco MV/Basin DK
4. Location of Well, Footage, Se 1820' FSL, 1770' FEL, Sec.32			Elevation:
Type of Submission	Type of Ac		
$_{\mathtt{X}}$ Notice of Intent	Abandonment	Change of Pl	
Subsequent Report	Recompletion _ Plugging Back	New Construc Non-Routine	
subsequent keport	Casing Repair _	Water Shut o	
Final Abandonment	Altering Casing _ _X Other - Commingle		o Injection
13. Describe Proposed or Compl It is intended to down hol attached procedure and be applied for.		t well accordin down hole commi	g to the ngle order will
			ECEIVED MAR 1 0 1998
		@[L CON. DIV. DIST. 3
SIGNATURE SAMU SKILLING	((TL) Regulatory Admi	nistratorMarc	th 3, 1998
(This space for State Use)	<u> </u>		VKH
(INIS Space LOL Scace USE)			
Approved by Original Signed by FRANK T. C	HAVEZ Title SUPERVIS	OR DISTRICT # 3	

San Juan 29-7 Unit #31A

Blanco MV / Basin DK 1820' FSL, 1770' FEL Unit J, Sec. 32, T-29-N, R-7-W

Latitude / Longitude: 36° 40.80966' / 107° 35.43912' Recommended Commingle Procedure 2/9/98

- 1. Cornply with all NMOCD, BLM and Burlington safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig. Notify BROG Regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job. If an unplanned cement job is required, approval is required before the job can be pumped. If verbal approval is obtained, document approval in DIMS/WIMS. As much time as possible to the pump time is needed for the Agency to be able to show up for the cement iob.
- 2. MOL and RU workover rig. Replace any WH valves that do not operate properly. NU relief line and blow well down (kill with 2% KCL water only if necessary). ND WH and NU BOP with offset spool and stripping head. NOTE: Have WH serviced at machine shop as needed. A singletubing donut and WH will be needed. Test secondary seal and install or replace if necessary. Test and record operation of BOP rams.
- Mesaverde 1-1/2" tubing set at 5984'. PU additional joints of 1-1/2" tubing and CO on top of 3. packer at 6066' with air/mist. NOTE: When using air/mist, mist rate must not be less than 12 bph. TOOH and stand back 1-1/2" tubing. ND offset spool. Pick straight up on 2-3/8" tubing (end of tubing at 7873') to release Baker Model "G-22" seal assembly from Model "D" packer (seal assembly set with 15,000# compression). TOOH with 2-3/8" tubing and LD seal assembly. Visually inspect tubing for corrosion, and replace any bad joints. Check tubing for scale and notify Operations Engineer.
- 4. TIH with 2-3/8" tubing and Baker Model "CJ" packer milling tool to recover the 7" Baker Model "D" packer. Mill on packer with air/mist. TOOH with packer.
- 5. PU 3-7/8" bit and 4-1/2", 11.6# casing scraper on 2-3/8" tubing, CO to PBTD (7920') with air/mist, and then TOOH with bit and scraper. If fill is encountered, TOOH with casing scraper before CO. LD 2-3/8" tubing.
- 6. TIH with one joint of 1-1/2", 2.9# tubing with notched expendable check, SN (one joint off bottom), then $\frac{1}{2}$ of the 1-1/2" production tubing. Run a broach on sandline to insure that the tubing is clear. TIH with remaining 1-1/2" tubing and then broach this tubing. CO to PBTD with air/mist.
- PU above the Mesaverde perforations at 5062' and flow the well naturally, making short trips for 7. clean-up when necessary. Obtain pitot gauge from casing after clean-up.
- 8. Land tubing at ~7848'. ND BOP and NU single-tubing hanger WH. Pump off expendable check. Connect to casing and circulate air to assure that expendable check has pumped off. If well will not flow on its own, make swab run to SN. RD and MOL. Return well to production.

ROS 2-18-98

Contact:

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San Juan 29-7 Unit #31A

CURRENT

Blanco Mesaverde / Basin Dakota Duai

1820' FSL, 1770' FEL, SE Section 32, T-29-N, R-7-W, Rio Arriba County, NM Latitude/Longtitude: 36°40.81'/ 107°35.44'

Today's Date: 2-9-98 Spud: 8-28-79 Completed: 8-18-80 Elevation: 6723' (GL)

17-1/2" hole

12-1/4" hole

8-3/4" hole

6-1/4" hole

Logs: IEL, CDL, TS

Workovers: None

Ojo Alamo @ N/A

Pictured Cliffs @ N/A

13-3/8", 48#, H-40 csg set @ 222' w/325 c.f. cmt; Circ. to surf.

185 jts 1-1/2", 2.9#, WP-55 tbg set @ 5984'; (S.N. @ 5952'; Perfd & orange peeled jt on btm)

TOC @ 2400' (TS)

7" Liner Top @ 3606'

9-5/8", 40#, N-80 csg set @ 3755' w/593 c.f. cmt

Mesaverde @ 5060'

Menefee @ 5200'

Point Lookout @ 5616'

Gallup @ 6665'

Greenhorn @ 7617' Graneros @ 7666' Dakota @ 7792' Mesaverde Perforations: 5062'-5990 (1 spz)

Baker Model "D" Pkr & G-22 S.A. @ 6066'

4-1/2" Liner Top @ 6121'

7", 23#, N-80 liner set from 3606'-6216' w/668 c.f. cmt. Rev out 26 bbl. (TOC @ L.T.)

248 jts 2-3/8", 4.7#, J-55 tbg set @ 7873'; S.N. @ 7841'; (3-1/16" blast jts 5621'-5722'; Beveled couplings 3400'-TD)

Dakota Perforations: 7708'-7918' (1 spz)

4-1/2", 11.6#,KS liner set from 6121'-7926' w/325 c.f. cmt. Rev. out all gel H2O & trace of cmt. (TOC @ L.T.)

Initial Potential	Production History	ory Gas	<u>Oil</u>	Owne	rship	Pipeline
Initial AOF: 15,280 Mcfd (8/8 Initial AOF: 590 Mcfd (8/8 Current SICP: 490 psig (7/9: Current SICP: 738 psig (5/9-	DK) Cumulative: VIV) Current:	1,256.7 MMcf (MV) 1,195.6 MMcf (DK) 143.0 Mcfd (MV 118.0 Mcfd (DK)	8.1 Mbo 7.4 Mbo 0.7 bbls/d	GWI: NRI: GWI: NRI: TRUST: TRUST:	62.52% (MV) 52.80% (MV) 68.43% (DK) 52.98% (DK) 4.40% (MV) 7.10% (DK)	EPNG

TD 7926