DATE	•	SUSPENSE/ /_	ENGINEER	LOG	GED /	TYPE \ \ \ \ \ C	
	×/19/97	7/9/97) AC		KN	DHC	
		NEW MEXIC	ABOVE THIS LINE FOR DIVISION OF THE CONSTRUCTION OF THE CONSTRUCTI	ERVATIO	N DIVISION		- /610
		ADMINISTRAT	IVE APPLIC	ATION	COVERSHE	ET	
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pplic	[PC-	[NSP-Non-Standard [DD-Direction wnhole Commingling] Pool Commingling] [O [WFX-Waterflood Exp	al Drilling] [SD-5 [CTB-Lease Com PLS - Off-Lease Sto pansion] [PMX-Pr r Disposal] [IPI-I	Simultaneou Imingling] orage] [Ol ressure Mai njection Pre	[PLC-Pool/Lease _M-Off-Lease Mea ntenance Expansi essure increase]	Commingling] surement] on]	
1]	TYPE OF A	APPLICATION - Ch Location - Spacing NSL NS	Unit - Direction		r [A]	JUN 9 199	To the same of the
	Chec [B]	ck One Only for [B] a Commingling - Sto DIDHC CT	orage - Measuren	nent		OLM	WAS TON
	[C]	Injection - Disposa		ease - Enha		ery PPR	
2]	NOTIFICA [A]	TION REQUIRED Working, Royal			* * * *	es Not Apply	
	[B]	Offset Operator	s, Leaseholders o	or Surface (Owner		
	[C]	☐ Application is €	one Which Requi	ires Publish	ned Legal Notice	:	
	[D]	Notification and U.S. Bureau of Land	Nor Concurrent A	Approval by oner of Public Lar	y BLM or SLO		
	[E]	☐ For all of the ab	ove, Proof of No	tification o	or Publication is	Attached, and/or,	٠
	[F]	☐ Waivers are Att	ached				
3]	INFORMA	TION / DATA SUB	MITTED IS CO	MPLETE	- Statement of U	Understanding	
legul pprov 1, Ol	ations of the (val is accurate RRI) is comm	I, or personnel under Dil Conservation Divier and complete to the lon. I understand that returned with no actions.	sion. Further, I best of my knowl any omission of	assert that ledge and v	the attached app vhere applicable	lication for adming, verify that all in	nistrative terest (WI
⇒ggy Bi	radfield	Note: Statement	must be completed by an in		pervisory capacity. Compliance Administrate	or	6/19/
rint or	Type Name	Signature	a		Title		Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

June 16, 1997

SENT FEDERAL EXPRESS

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

Re:

Hancock B #10

1830'FSL, 1460'FWL Section 28, T-28-N, R-9-W, San Juan County, NM

API #30-045-20821

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Basin Fruitland Coal and the Aztec Pictured Cliffs in the subject well. It is intended to add the Fruitland Coal to the Pictured Cliffs and commingle.

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 for the Pictured Cliffs and expected production curve for the Fruitland Coal;
- 4. Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
- 6. Nine-section plats for the Fruitland Coal and Pictured Cliffs.

Notification of Fruitland Coal and Pictured Cliffs interest owners is unnecessary, as all interests are identical.

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.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

xc: Bureau of Land Management - hand delivered

Spaanued

DISTRICT I

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

<u>DISTRICT II</u>

SIGNATURE

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

DISTRICT III

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 1000 Rio Brazos Rd, Aztec, NM 87410-1693 _x_ YES ___ NO PO Box 4289, Farmington, NM 87499 **Burlington Resources Oil & Gas Company** Address Operator K 28-28N-9W San Juan HANCOCK B 10 Unit Ltr. - Sec - Two - Rae County Wall No Spacing Unit Lease Types: (check 1 or more) _ , State _ _, (and/or) Fee __ API NO. _30-045-20821 ___Federal __X_ OGRID NO. _14538__ ___ Property Code __7078__ The following facts are submitted in support of downhole commingling: Upper Zone Intermediate Zone 1. Pool Name and Pool Code Aztec Pictured Cliffs - 71280 Fruitland Coal - 71629 Will be supplied upon completion 2. Top and Bottom of Pay Section (Perforations) 2431' - 2461' gas gas 3. Type of production (Oil or Gas) 4. Method of Production (Flowing or Artificial Lift) flowing flowing (Current) a. 254 psi (see attachment) a. 183 psi (see attachment) 5. Bottomhole Pressure a. Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current (Original) b. 492 psi (see attachment) b. 722 psi (see attachment) b. All Gas Zones: Estimated or Measured Original 6. Oil Gravity (°API) or Gas BTU Content **RTU 1067** BTU 1093 7. Producing or Shut-In? Shut - in producing Production Marginal? (yes or no) no yes If Shut-In and oil/gas/water rates of last production Date: n/a Date Date: n/a Rates: Rates Rates. 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: n/a Date: Date: n/a Rates: Rates Rates: 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) Gas: Gas: % Gas: Oil: 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? _x_Yes ___Yes ___Yes ___No _x_Yes ___No 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) 11. Will cross-flow occur? 12. Are all produced fluids from all commingled zones compatible with each other? _x_ Yes ___ No 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). 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.

TYPE OR PRINT NAME _ Joan M. Easley TELEPHONE NO. (505) 326-9700

Saslux___TITLE_Production Engineer_____DATE_____6/5/97__

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aziec, NM 87410 District IV

PO Box 2088, Santa Fc, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

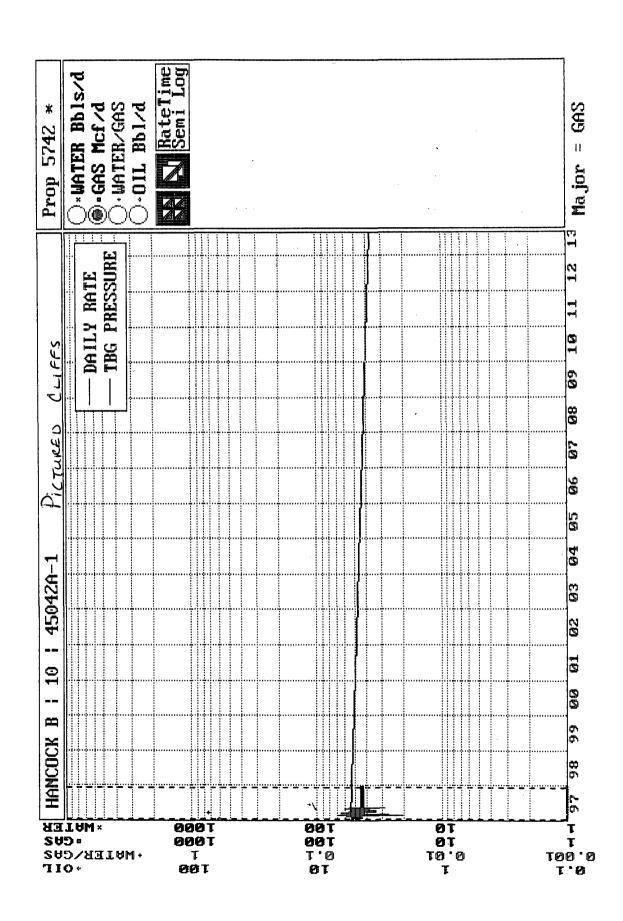
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-10 Revised February 21, 199 Instructions on bac

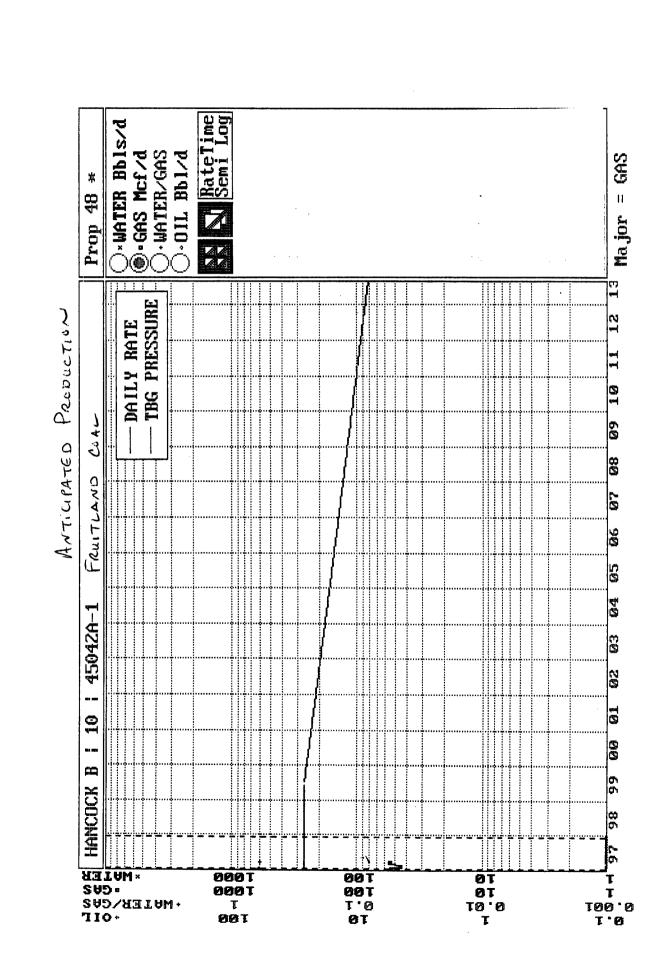
Submit to Appropriate District Offic

State Lease - 4 Copie Fee Lease - 3 Copie

AMENDED REPOR

		W	ELL LO	CATI	ON AND	ACR	REAGE DEDIC	CAT	TION PL	AT		
. ,	PI Numbe	r		¹ Pool	Code				Pool Na	me		
30-045-2	0821	·	71623	/71		Bas	sin Fruitla	nd	Coal/A	ztec	Pict	red Clif
* Property	Code				3 Pr	roperty	Name					Well Number
7078					Hanc							10
'OGRID	İ	В	URLING'	ron		perator ES (Name OIL & GAS (COM	PANY			'Elevation 6286 '
14538							Location				<u> </u>	
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		<u>83</u>							Signature and	TO THE REAL PROPERTY.	6857	CO US BELLEVILLE



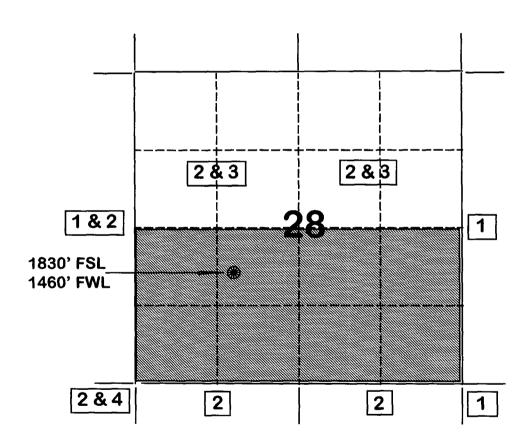


BURLINGTON RESOURCES OIL AND GAS COMPANY

Hancock B #10 OFFSET OPERATOR \ OWNER PLAT

Pictured Cliffs (SW/4)/Fruitland Coal (S/2) Formations Commingle Well

Township 28 North, Range 9 West



- 1) Burlington Resources Oil and Gas Company
- 2) Amoco Production Company Attn: Bruce Zimney P.O. Box 800 Denver, CO 80201
- 3) S G Interest 811 Dallas, Suite 1605 Houston, TX 77002

4) Richardson Operating Co. 1700 Lincoln Street, Suite 1700 Denver, CO 80203

Page No.: 4
Print Time: Thu May 22 10:22:03 1997
Property ID: 5742
Property Name: HANCOCK B | 10 | 45042A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

DATE	CUM_GAS		
08/11/71	0	680.0	< initial
05/18/72	51000	358.0	•
09/07/72	69265	367.0	
06/06/73	111718	340.0	
04/01/75	205835	247.0	
07/11/77	307323	194.0	
07/09/79	387405	195.0	
06/23/81	457251	187.0	
06/07/83	507110	230.0	
08/01/85	566704	221.0	
09/01/88	1168437	207.0	

Pictured Cliffs

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.628
COND. OR MISC. (C/M)	C
%N2	0.24
%CO2	0.49
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	2450
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	
SURFACE PRESSURE (PSIA)	680
BOTTOMHOLE PRESSURE (PSIA)	721.9

HANCOCK B #10 PICTURED CLIFFS - ORIGINAL PRESSURE

Page No.: 6

• •

Print Time: Thu May 22 10:22:07 1997

Property ID: 7094

Property Name: STOREY C | 12 | 50496A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

-DATE-- ---CUM GAS-- M SIWHP

	CUM_GAS		data (Tarn - Rogw-Sec.34c)
			I TARN - ROOW - Sec. 390)
08/17/61	0	754.0	(1001)
10/06/61	0	753.0	
05/18/62	65000	481.0	
02/14/63	81000	528.0	
02/17/64	126000	480.0	
02/19/65	201000	391.0	
03/02/66	271000	370.0	
03/13/67	333000	347.0	
03/07/68	382000	331.0	
06/30/69	445134	295.0	
10/15/70	509289	252.0	
07/30/71	544414	240.0	
08/09/72	589793	228.0	
09/13/73	632995	217.0	
04/17/74	653366	212.0	
04/14/76	722323		
05/24/78	791802		
06/09/80	856491	164.0	
06/09/82	907461		
08/01/84	945415	191.0	
09/25/85	974059	148.0	
09/01/88	1014373	185.0	
05/08/90		205.0	
07/28/92		219.0	· nuccenit
06/17/94	1109178	174.0 <	e current

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.62
COND. OR MISC. (C/M)	C
%N2	0.17
%CO2	0.31
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	2375
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	174
BOTTOMHOLE PRESSURE (PSIA)	183.4

STOREY C #12 PICTURED CLIFFS - CURRENT PRESSURE

Page No.: 3

Print Time: Mon Jun 02 14:10:49 1997

FRUITLAND CUAL

Property Name: SHARP | 800 | 3719A-1 - Nearts + Uset M Driginal PASSURE Table Name: K.\ARTEC\BROODEN TROOTERS

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

(T29N-RU8W- Sec. 18)

•.

--DATE-- ---CUM_GAS-- M_SIBHP

05/17/89

469.0

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.611
COND. OR MISC. (C/M)	С
%N2	0.14
%CO2	0.52
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	2060
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	90
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	469
BOTTOMHOLE PRESSURE (PSIA)	491.9

SHARP #800 FRUITLAND COAL - ORIGINAL PRESSURE

Pressure Buildup on Fruitland Coal Zone of Sharp #5

Coi	nducted Janua	ry 1996	Newcest offset of
Harris	Bottomhole	Temperature,	Neurest offset of Curpert pressure data (28N-8W-Sec 18N)
Hours	Pressure, psia	deg F	A - A
90	254	91	acita (CAI)
119	254	91	128N-8W- Sec 18N)
120	194	93	(201)
122	189	93	
124	179	93	
128	170	93	
130	164	93	
132	159	93	
134	165 16 4	93 93	
135 136	168	93	
136		93	
138	164 150		
140	159 164	93	
142	164 163	92	
144	162 156	93 92	
146	156 157	92 92	
147	157 150		
148 150	159 160	92 92	
154	157	92 92	
154	229	92 91	
157	229	91	
157	234	92	
160	237	92 92	
162	238	92 92	
164	240	92 92	
166	241	92 92	
168	242	92	
170	243	92 92	
174	244	91	
178	245	91	
182	246	91	
183	246	91	
188	247	91	
196	248	91	
206	249	91	
220	250	91	
240	251	91	
268	252	91	
310	253	91	
370	254	91	
431	251 F	01	
• - •		current FR	withand Coal
		Bottonhol	uitland Coal Le Pressure

Page 1

FARMINGTON 1997 MONTHLY PRODUCTION FOR 45042A PHS030M1 HANCOCK B 10

• •

AZTEC PICTURED CLIFFS (GAS) FIELD PICTURED CLIFFS ZONE

MO T S ON PC PROD GRV PC PROD ON BTU PRESS WATER PROD 1 2 F 31 01 1628 31 1092 15.025 1 2 2 F 28 01 1378 28 1092 15.025 1 3 2 F 31 01 1660 31 1092 15.025 1	
2 2 F 28 01 1378 28 1092 15.025 3 2 F 31 01 1660 31 1092 15.025 1	C
3 2 F 31 01 1660 31 1092 15.025 1	
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PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE

PF9 - DISPLAY MONTHLY INJECTION PRS 05/03/97 PF10 - HELP INFORMATION

B MY JOB NUM LU #5

T 28 N

HANCOCK B #10 Section 28, T28N, R9W Fruitland Coal / Pictured Cliffs

AMOCO TOC- ROCKY 	TOC-ROCKY MTNS. 6 AMOCO	NM 322 (PM) BETA(D) 4 → AMOCO (F) 6
19	10	→ 6 P
20	21	22
	⇒ PR × 7	
8 * 5 * * * * * * * * * * * * * * * * *	9	Hancock(M) Hancock'B'(PD) Storey C'Ls.
Lackey'B'Ls. TOC-ROCKY MTNS.	Lackey B1 s. TOC-ROCKY MTNS.	NM 322 (PCM) NM 320
*	3 SG INT.(F)	MESA(D) AMOCO PA AMOCO
Lackey B'Ls. ————————————————————————————————————	Fed.(F) Fed.(F) Michener'A Ls.(PM) Michener (D) 28	277
712 NM 321	± 10	Hancock(PM)
P · Hancock	9 PA-X Hancock'B'(PCM) HarrisMesaFed.(D)	Description 1
AMOCO RICHARDSON OPER	AMOCO TOC-ROCKY MTNS.	NM 320(PCM) 12 MESA (D)
* ' .	 	* WEST U
Fed 23-32(F)	Michener'A'Ls.(P) Michener'A'(CM)	Lackey(C) Storey'C'(PM) BlancoWashFederal(D)
32	Michener BLs. NM 320 AMOCO	34 NM 320 AMOCO
2 Fed 31-32(F) 1 P P.A.'97 Daun(P) DaunLs.(CMD)	P Storey'CLs.(P) 3 Storey'CLs.(PMD) Michener(D) PA'94	Storey C'Ls.(PM) Storey C'D)