# MERRION

OIL & GAS

JUL 1 **5** 1997

July 10, 1997

Mr. William LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87505

Re: Application for Administrative Approval
Downhole Commingling
Basin Fruitland Coal and WAW Pictured Cliffs Pool
Dietrich 28G-1
Section 28, T26N, R12W
San Juan County, New Mexico

Dear Mr. LeMay:

Merrion requests approval for downhole commingling of the Basin Fruitland Coal and the WAW Pictured Cliffs Pools in the subject wellbore. The following information is provided in support of this application.

# I. Background

The Dietrich 28G-1 was completed in 1980 in the Pictured Cliffs formation. Through January, 1997, it has made a cumulative 195 MMCF. It is currently making approximately 20 MCFD and has remaining reserves of approximately 100 MMCF (see Exhibit 5).

Merrion wishes to complete the Fruitland Coal in the wellbore and commingle that production with the Pictured Cliffs (PC) zone. Exhibit 1 is the ownership plat showing the leases involved. Exhibit 2 shows the C-102 plat for the WAW with a 160 Spacing Unit encompassing the NE/4 of Section 28. Exhibit 3 shows the C-102 plat for the Basin Fruitland Coal with a 320 acre Spacing Unit in the E/2 of Section 28.

# II. Justification

The following points are made in justification of the proposal.

1.) The Fruitland Coal production is marginal in the area (20 to 200 MCFD). Therefore, it would be difficult to justify drilling a new, stand alone Fruitland well.

- 2.) The well is equipped with 2 7/8" casing making it virtually impossible to dual complete.
- 3.) Exhibit 4, the Dietrich 28G-1 well log, shows that there is only six (6) feet between the existing PC perfs and the proposed Fruitland perfs. Therefore, these zones are likely to communicate outside the casing regardless of what we try to do inside the casing.
- 4.) If we were to recomplete this well to the Fruitland without commingling, we would have to abandon the PC and forego recovering the remaining reserves.
- 5.) If we were to recomplete the well to the Fruitland without commingling, we would have to set a bridge plug on top of the PC, leaving absolutely no rathole for the Fruitland zone. That would make it particularly difficult to efficiently pump water off of the Fruitland.

# III. Allocation Methodolgy

The proposed allocation method will be to use the established decline trend to forecast PC production. Any production above and beyond that will be allocated to the Fruitland Coal.

Exhibit 5 shows the historical production from the well, which is declining at the rate of 5% per year. Exhibit 6 is a table showing the forecasted future gas production from the PC on a monthly basis. Again, Fruitland Coal production will be all production in excess of these numbers. All water will be allocated to the Fruitland Coal. Any liquid hydrocarbons, if any, will be allocated to the PC.

# IV. Reservoir Fluid Compatibility

The gas compositions of PC and Fruitland gas are virtually identical, as are the water compositions (Exhibit 7). Therefore, the reservoir fluids are compatible.

# V. <u>Cross Flow Between Zones</u>

The current reservoir pressure of the PC zone is estimated to be approximately 125 psi. The Fruitland is estimated to be approximately 225 psi. With a flowing line pressure of around 30 psi, cross flow between zones should not be a problem.

Page Three July 10, 1997

# VI. <u>Lease Ownership</u>

Both leases involved are BIA leases at 17.5% royalty rates. Merrion owns 100% of the working interest. There are no overriding royalty owners in excess of the base royalty.

# VII. Offset Ownership Notification

Exhibit 1 is a plat showing the offset ownership. All offset owners have been sent a copy of this application. Exhibit 8 is an affidavit to that effect.

# VIII. Summary

Sincerely,

Unless commingling is approved, either the Fruitland Coal will not be developed or the PC will be prematurely abandoned. Commingling the zones will maximize recoverable reserves and protect correlative rights. Therefore, we request your approval of this application.

Please call me with questions or if additional information is required.

George F. Sharpe	
Manager - Oil & Gas Investments	
	WAIVER
Company	hereby waives objection to this application.
Name	Date

# **EXHIBITS**

- 1.)
- Ownership Plat C-102 Plat Pictured Cliffs 2.)
- C-102 Plat Fruitland Coal 3.)
- 4.)
- Dietrich 28G-1 Density Log
  Dietrich 28G-1 Pictured Cliffs Historical Production 5.)
- 6.) Dietrich 28G-1 Pictured Cliffs Future Production
- Pictured Fruitland Water Analysis Affidavit of Notification 7.)
- 8.)

# **EXHIBIT 1**

# DIETRICH 28 G1 LEASE PLAT OFFSET OWNERSHIP PLAT T26N, R12W San Juan County, NM

		R 12 V	V	
20	CENTRAL RESOURCES	21	PENDRAGON DUGAN	<b>22</b> MCHUGH
T 26 N	DUGAN	28	100% MERRON Perioh 28/64 18/703-14-30-8376	JK EDWARDS
	DUGAN		1,00%, 1,40ERRAONS 1,4050-1,4-2,9,83,77	<b>27</b> MCHUGH
32	DUGAN	33	JK EDWARDS	JK EDWARDS 34
			Fruitla Picture	 nd Coal Spacing Unit ed Cliffs Spacing Unit

# NEW WALL SO OIL CONSERVATION CONTROL SION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distant	ces must be from t	the outer	boundaries of	the Section	·		
Operator DIETI	RICH EXPLOR	ATION	Lec	is <b>e</b>	28	· G ·		Well No.	
Unit Letter	Section	Township	I	Range		County		<del></del>	
· G	28	26	NORTH	1	2 WEST		SAN JU	[ A NT	•
Actual Footage Loc			NURTH	1	C WIDOI	1	SAN JU	All	
1850	feet from the	NORTH	line and	_	1850 fee	t from the	EAS	T line	
Ground Level Elev:	Producing For		P∞					Dedicated Acreage:	
6064	PICTURED	CLIFFS	W	IAW PI	CTURED CI	LIFF-FRU	UITLAND	160 Ac	стев
1. Outline th	e acreage dedica	ted to the	subject well l	by color	ed pencil o	r hachure	marks on the	plat below.	,
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		dedicated	to the well, or	ıtline ea	ach and ide	ntify the	ownership the	ereof (both as to work	ing
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Yes	No If an	swer is "y	es," type of co	nsolida	tion				
		·	• •						
If answer	is "no," list the	owners and	tract descript	ions wh	ich have ac	tually be	en consolidat	ed. (Use reverse side	∍ of
	f necessary.)			·					
No allowat	ole will be assigne	d to the we	ell until all int	erests h	ave been o	onsolidat	ted (by comm	unitization, unitizati	on,
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District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 Seeth First, Artesia, NM 88210 District III 1990 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

# State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

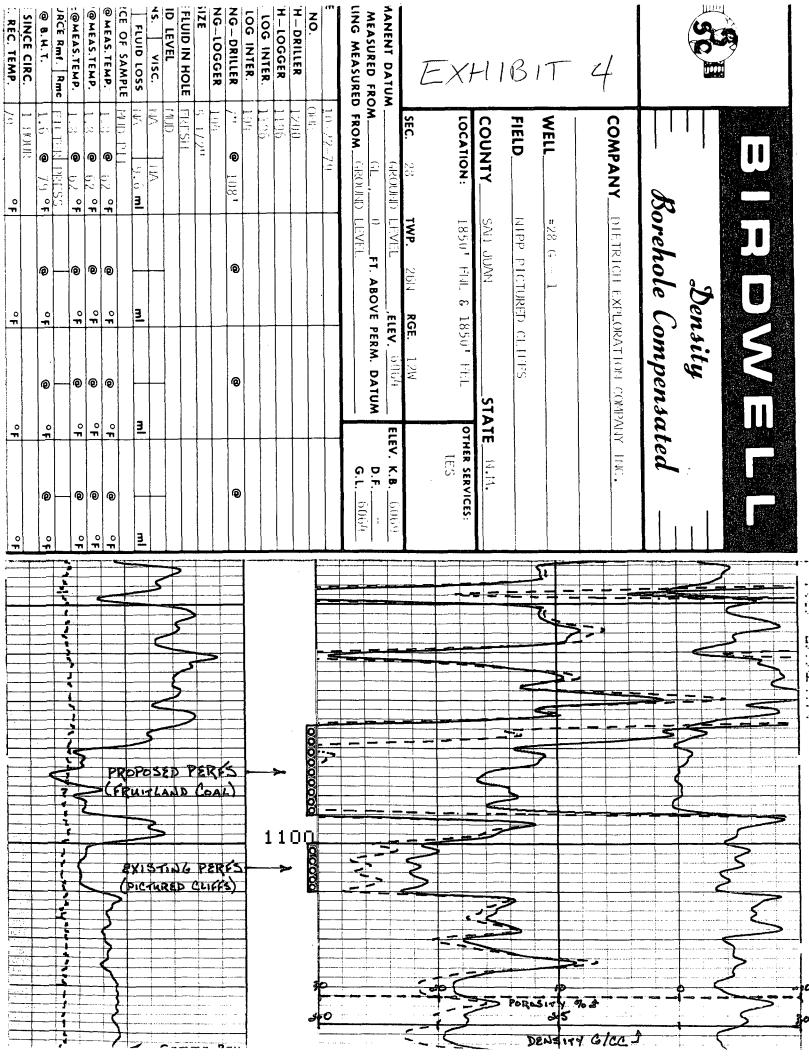
Form C-102 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

■ AMENDED REPORT

		WE	LL LO	CATION	I AND ACI	REAGE DEDI	CAT	ION PL	AT.		
1	API Numbe	Number <sup>3</sup> Pool Code <sup>3</sup> Pool Name									
30-045-2	23747		7	1629		Basin Fruitland					
<sup>4</sup> Property	Code		<del></del>		<sup>1</sup> Property	operty Name				* Weil Number	
			Diet	rich Ex	ploration	ion 28 G				1	
'OGRID	No.				<sup>8</sup> Operator	perator Name				,	Elevation
014634			Merr	ion Oil	& Gas Cor	р.				60	64
				<sup>10</sup> Surface Location							
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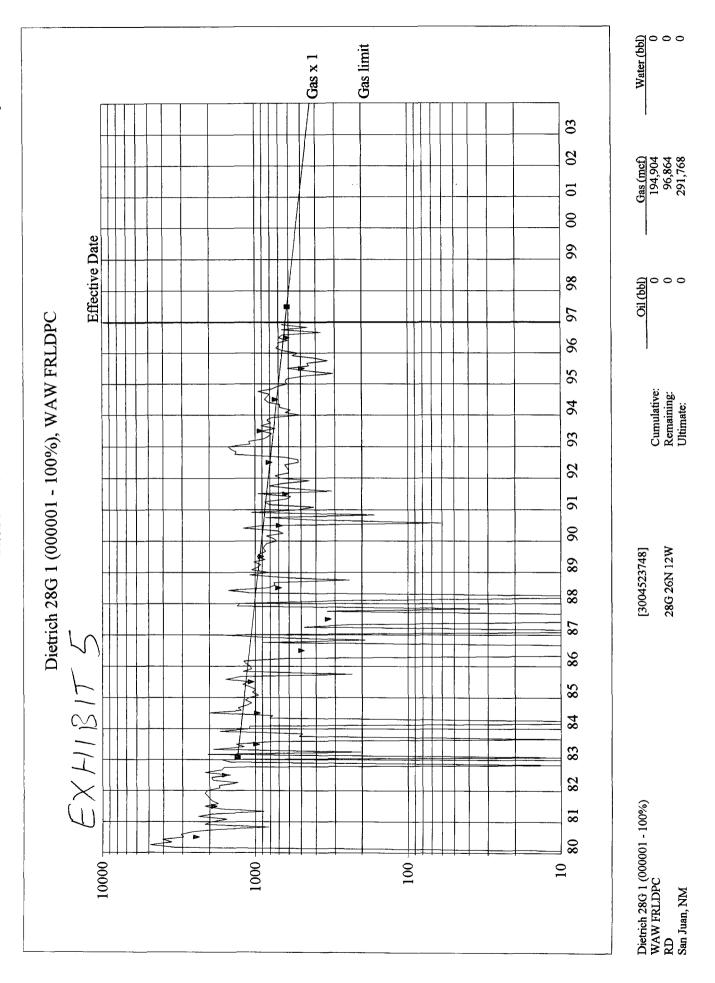


	EXHIBIT 6						
DIETRICH 28G-1 COMMINGLING APPLICATION							
		PRODUCTION	**				
		CUM					
	GAS	RESERVES					
DATE	MCF/MO	MCF					
Aug-97	608	608					
Sep-97	605	1,213					
Oct-97	603	1,816					
Nov-97	600	2,417					
Dec-97	598	3,015					
Jan-98	595	3,610					
Feb-98	593	4,203					
Mar-98	591	4,794					
Apr-98	588	5,382					
May-98	586	5,967					
Jun-98	583	6,551					
Jul-98	581	7,131					
Aug-98	578	7,710					
Sep-98	576	8,286					
Oct-98	574	8,859					
Nov-98	571	9,430					
Dec-98	569	9,999					
Jan-99	566	10,566					
Feb-99	564	11,130					
Mar-99	562	11,691					
Apr-99	559	12,251					
May-99	557	12,808					
Jun-99	555	13,363					
Jul-99	552	13,915					
Aug-99	550	14,465					
Sep-99	548	15,013					
Oct-99	546	15,559					
Nov-99	543	16,102					
	541	·					
Dec-99 Jan-00	539	16,643					
Feb-00	539	17,182	<del></del>				
Mar-00	53 <i>1</i>	17,718					
Apr-00	532	18,253					
May-00	532	18,785					
Jun-00	528	19,315					
Jul-00		19,842					
	525 523	20,368					
Aug-00	523 521	20,891					
Sep-00 Oct-00	519	21,412					
Nov-00	519	21,931					
Dec-00	51 <i>7</i>	22,448					
Jan-01	513	22,963					
Feb-01	510	23,475					
		23,985					
Mar-01	508	24,494					
Apr-01	506	25,000					
May-01	504	25,504					
Jun-01	502	26,006					

	EXHIBIT 6	
		NG APPLICATION S PRODUCTION
TOTORETION	OKED CENT C	T KODOOTION &
		CUM
	GAS	RESERVES
DATE	MCF/MO	MCF
Jul-01	500	26,506
Aug-01	498	27,004
Sep-01	496	27,499
Oct-01	494	27,993
Nov-01	492	28,484
Dec-01	490	28,974
Jan-02	488	29,462
Feb-02	485	29,947
Mar-02	483	30,431
Apr-02	481	30,912
May-02	479	31,391
Jun-02	477	31,869
Jul-02	475	32,344
Aug-02	474	32,818
Sep-02	472	33,289
Oct-02	470	33,759
Nov-02	468	34,227
Dec-02	466	34,692
Jan-03	464	35,156
Feb-03	462	35,618
Mar-03	460	36,078
Apr-03	458	36,536
May-03	456	36,992
Jun-03	454	37,446
Jul-03	452	37,898
Aug-03	450	38,349
Sep-03	449	38,797
Oct-03	447	39,244
Nov-03	445	39,689
Dec-03	443	40,132
Jan-04	441	40,573
Feb-04	439	41,012
Mar-04	437	41,449
Apr-04	436	41,885
May-04	434	42,319
Jun-04	432	42,751
Jul-04	430	43,181
Aug-04	428	43,610
Sep-04	427	44,036
Oct-04	425	44,461
Nov-04	423	44,884
Dec-04	421	45,306
Jan-05	420	45,725
Feb-05	418	46,143
Mar-05	416	46,559
Apr-05	414	46,974
May-05	413	47,386

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	EXHIBIT 6 DIETRICH 28G-1 COMMINGLING APPLICATION						
			PRODUCTION *				
	TOTOKETION	OKED GENT	, respectively				
			CUM				
		GAS	RESERVES				
	DATE	MCF/MO	MCF				
	Jun-05	411	47,797				
	Jul-05	409	48,206				
	Aug-05	408	48,614				
	Sep-05	406	49,020				
	Oct-05	404	49,424				
	Nov-05	402	49,827				
	Dec-05	401	50,227				
	Jan-06	399	50,626				
	Feb-06	397	51,024				
	Mar-06	396	51,420				
	Apr-06	394	51,814				
	May-06	393	52,206				
	Jun-06	391	52,597				
	Jul-06	389	52,987				
	Aug-06	388	53,374				
	Sep-06	386	53,760				
	Oct-06	384	54,145				
	Nov-06	383	54,528				
	Dec-06	381	54,909				
	Jan-07	380	55,289				
	Feb-07	378	55,667				
	Mar-07	377	56,043				
	Apr-07	375	56,418				
	May-07	373	56,792				
	Jun-07	372	57,163				
	Jul-07	370	57,534				
	Aug-07	369	57,902				
	Sep-07	367	58,270				
	Oct-07	366	58,635				
	Nov-07	364	59,000				
	Dec-07	363	59,362				
	Jan-08	361	59,723				
	Feb-08	360	60,083				
<del>_</del>	Mar-08	358	60,441				
	Apr-08	357	60,798				
	May-08	355	61,153				
	Jun-08	354	61,507				
	Jul-08	352	61,859				
	Aug-08	352	62,210				
	Sep-08	349	62,559				
	Oct-08	349	62,907				
	Nov-08	346	63,253				
	Dec-08	345	<del> </del>				
	Jan-09	345	63,598				
	Feb-09		63,942				
		342	64,284				
	Mar-09	341	64,625				
	Apr-09	339	64,964				

	EXHIBIT 6							
	DIETRICH 28G-1 COMMINGLING APPLICATION FUTURE PICTURED CLIFFS PRODUCTION							
FOI DICE PIC	IORED CEILLO	FRODUCTION						
	,	CUM						
	GAS	RESERVES						
DATE	MCF/MO	MCF						
May-09	338	65,302						
Jun-09	336	65,638						
Jul-09	335	65,973						
Aug-09	334	66,307						
Sep-09	332	66,639						
Oct-09	331	66,970						
Nov-09	330	67,300						
Dec-09	328	67,628						
Jan-10	327	67,955						
Feb-10	325	68,280						
Mar-10	324	68,604						
Apr-10	323	68,927						
May-10	321	69,248						
Jun-10	320	69,568						
Jul-10	319	69,887						
Aug-10	317	70,204						
Sep-10	316	70,520						
Oct-10	315	70,835						
Nov-10	313	71,149						
Dec-10	312	71,461						
Jan-11	311	71,772						
Feb-11	310	72,081						
Mar-11	308	72,389						
Apr-11	307	72,696						
May-11	306	73,002						
Jun-11	304	73,306						
Jul-11	303	73,610						
Aug-11	302	73,912						
Sep-11		74,212						
Oct-11	299	74,512						
Nov-11	298	74,810						
Dec-11	297	75,107						
Jan-12		75,402						
Feb-12		75,697						
Mar-12	<del></del>	75,990						
Apr-12		76,282						
May-12		76,573						
Jun-12		76,862	<del></del>					
Jul-12		77,151						
Aug-12		77,438						
Sep-12		77,724						
Oct-12		78,009						
Nov-12		78,292						
Dec-12		78,575	<del></del>					
Jan-13	281	78,856						
Feb-13 Mar-13		79,136						
IVIAI-13	279	79,415						

DIETRICH 28G-1		NG APPLICATION
FUTURE PICT	URED CLIFFS	PRODUCTION
		CUM
		RESERVES
DATE	GAS MCF/MO	
DATE		MCF
Apr-13	278	79,693
May-13	277	79,969
Jun-13	275	80,245
Jul-13	274	80,519
Aug-13	273	80,792
Sep-13	272	81,064
Oct-13	271	81,335
Nov-13	270	81,605
Dec-13	269	81,874
Jan-14	268	82,141
Feb-14	266	82,408
Mar-14	265	82,673
Apr-14	264	82,937
May-14	263	83,200
Jun-14	262	83,462
Jul-14	261	83,723
Aug-14	260	83,983
Sep-14	259	84,242
Oct-14	258	84,500
Nov-14	257	84,756
Dec-14	256	85,012
Jan-15	254	85,266
Feb-15	253	85,520
Mar-15	252	85,772
Apr-15	251	86,023
May-15	250	86,274
Jun-15	249	86,523
Jul-15	248	86,771
Aug-15	247	87,018
Sep-15	246	87,265
Oct-15	245	87,510
Nov-15	243	87,754
Dec-15	243	87,997
Jan-16	243	88,239
Feb-16 Mar-16	241 240	88,480
		88,720
Apr-16	239	88,959
May-16	238	89,197
Jun-16	237	89,434
Jul-16	236	89,670
Aug-16	235	89,906
Sep-16	234	90,140
Oct-16	233	90,373
Nov-16	232	90,605
Dec-16	231	90,836
Jan-17	230	91,067
Feb-17	229	91,296

EXHIBIT 6							
DIETRICH 28G-1 COMMINGLING APPLICATION							
FUTURE PICTURED CLIFFS PRODUCTION							
		CUM					
	GAS	RESERVES					
DATE	MCF/MO	MCF					
Mar-17	228	91,524					
Apr-17	227	91,752					
May-17	226	91,978					
Jun-17	226	92,204					
Jul-17	225	92,428					
Aug-17	224	92,652					
Sep-17	223	92,875					
Oct-17	222	93,096					
Nov-17	221	93,317					
Dec-17	220	93,537					
Jan-18	219	93,756					
Feb-18	218	93,974					
Mar-18	217	94,192					
Apr-18	216	94,408					
May-18	215	94,623					
Jun-18	215	94,838					
Jul-18	214	95,052					
Aug-18	213	95,264					
Sep-18	212	95,476					
Oct-18	211	95,687					
Nov-18	210	95,897					
Dec-18	209	96,106					
Jan-19	208	96,315					
Feb-19	207	96,522					
Mar-19	207	96,729					
Apr-19	206	96,935					
May-19	205	97,140					
Jun-19	204	97,344					
Jul-19	203	97,547					
Aug-19	202	97,749					
Sep-19	202	97,951					
Oct-19	201	98,151					
Nov-19	200	98,351					
Dec-19	199	98,550					

ALYSIS	NO.	51-	34	-91

API FORM 45-1

DISSOLVED SOLIDS

Sodium, Na (cela) Calcium, Ca

Magnesium, Mg Barium, Ba

CATIONS

FIELD RECEIPT NO.

ATTER PROPERTY

# API WATER ANALYSIS REPORT FORM

Company Merrion	011 + G95	Sample No.	Date Sampled 03-13-91
Ficid	Sec. 9 T 26A	1, 12N   County or F	Parisia   State
Lease or Unis	Well SUSCO #3 1	Depth Formation	Mater. S/D
Type of Water (Produced,	Supply, etc.)   Sampling Poin	<b>.</b>	Sampled By

Potassium. K	34	<u>.87</u>
ANIONS Caloride, CI	3609	101.81
Sulfata, SO4 Carbonate, CO3 carbonate, ECO3 cardCOXIdo, OH	<u>34a</u>	5.60

RELIARES & RECOURSENDATIONS:

EXHIBIT 7

Villet Fitteinie	~ ~ ~
Ηg	7.85
Speciale Gravity, 60/60 F.	1.003
Resistivity (ohm-meters) 74 -	.90
Total hardness	340

WATER PATTERNS - me/l

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ANALYST: Saloo

THE WESTERN COMPANY OF NORTH AMERICA, FARMINGTON, (505) 327-6222

ease refer any questions to: BRIAN AULT, District Engineer

'PI FORM 45-1

## API WATER ANALYSIS REPORT FORM

Company	Oil + Has	Sample No.	Date Sampled
Field	Legal Description	35 T2 TN R(3W LANGE)	risin State
Lease or Unit AM 3	3049 Well # 4	Depth Formation	Water, BID
Type of Water (Production)		p pot	Sampled By J. Merilate
DISSOLVED SOLIDS	•	OTHER PROPER	TIES
CATIONS Sodium. Na (cale.) Calcium. Ca Magnesium. Mg Barium. Ba Potassium, K  20  20  20  20  20  20  20  20  20  2	16 90.60 7. 1.17 0 .66	pH Specific Gravity, 60 Resistivity (ohm-n Total Hardnes	seters) 59 F. 1.61
LYWANG		WATE	l PATTERNS — meji
Chloride, Cl 317 Sulfate, SO, 50 Carbonate, CO, 0 Ricarbonate, HCO, 199 Yelroxide, Oli 0	.52	co  <del>                                    </del>	STANDARD
Total Dissolved Solids (calc.)  (mons.)  Iron, Fe (total) Fe "3 Fe ""  Sulfide, as H <sub>2</sub> S Non place	82 2	Malmular 1 mular 1 mul	

REMARKS & RECOMMENDATIONS:

EXHIBIT 7

Analysi J. Dehart

## Exhibit 8

# **Affidavit of Notification**

The following companies were sent certified copies of the application for downhole commingling of the Basin Fruitland Coal and the WAW Pictured Cliffs Pools in the Dietrich 28G-1.

- 1.) Central Resources 1775 Sherman, Suite 2600 Denver, CO 80203-4313
- Dugan Production Corp.P.O. Box 420Farmington, NM 87499
- 3.) J K Edwards Associates, Inc. 1401 17th Street, Suite 1400 Denver, CO 80202
- 4.) J P McHugh 650 S. Cherry Street, Suite 1225 Denver, CO 80222
- 5.) Pendragon Energy Partners, Inc.621 17th Street, Suite 750Denver, CO 80293

Signed <u>Corge Sharye</u> George F. Sharpe Date 7-14-97

## ACKNOWLEDGMENT

STATE OF NEW MEXICO )	
SS	
COUNTY OF SAN JUAN )	
The foregoing/instrument was acknowledged	before me this Add day of Will
1997, by George F. Sharpe.	
My commission expires:	(autotal Williams)
VIINE 27, 1998	Motary Public