Jun 9)

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

ADMINISTRATIVE ORDER DHC-1026

Merrion Oil and Gas Corporation P.O. Box 840 Farmington, NM 87499

Attention: George F. Sharp

DECEIVED N AUG - 5 1994

OIL CON. DIV.

Blueberry Buckle Well No. 1
Unit D, Section 32, Township 30 North, Range 7 West, NMPM, Rio Arriba County, New Mexico.
Basin-Fruitland Coal and Navajo City-Pictured Cliffs Pools

Dear Mr. Sharp:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 20 barrels per day, and total water production shall not exceed 40 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

Pictured Cliffs gas reserves shall be calculated utilizing actual measured reservoir pressure during completion. A production test shall be conducted on the Pictured Cliffs interval to obtain initial producing rate. Based on initial rate, final rate and gas reserves, a decline rate and resulting production schedule for the Pictured Cliffs shall be calculated. Monthly Fruitland Coal production shall be determined by subtracting the Pictured Cliffs production (obtained from the production schedule) from the well's total monthly producing rate.

A copy of the calculations and Pictured Cliffs production schedule shall be submitted to the Santa Fe and Aztec offices of the division upon completion.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 2nd day of August, 1994.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEM

Director

SEAL

WJL/DRC/amg

cc: Oil Conservation Division - Aztec

Ernie Busch

From:

Ernie Busch

To:

David Catanach

Subject:

MERRION OIL & GAS CORP (DHC)

Date:

Monday, July 11, 1994 3:41PM

Priority:

High

WELL NAME:

BLUEBERRY BUCKLE #1

LOCATION:

32-30N-07W

APPROVAL-THE ONLY CONCERN I HAD WAS THE PROXIMITY OF THE WELL TO THE RECOMMEND: OVERPRESSURED FRUITLAND COAL WELLS, BUT WHEN THE BLUEBERRY BUCKLE #1 WAS DRILLED THROUGH THE FRUITLAND, IT WAS DRILLED WITH WATER AND THERE WAS NOT ANY ABNORMALLY HIGH PRESSURE ENCOUNTERED. THE COAL RESERVOIR PRESSURE SHOULD BE WITHIN THE APPROVAL TOLERANCE REQUIRED.

MERRION OIL & GAS CORPORATION

610 REILLY AVE . P 0. Box 840

June 24, 1994

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JUN 2 7 1994
OUL COM. DUV.

Mr. William Lemay, Director New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87503

Re: Application for Administrative Approval

Downhole Commingling

Basin Fruitland Coal and Navajo City Pictured Cliffs Pools

Lease: E-178-8 Blueberry Buckle #1

Section 32, Township 30 North, Range 7 West

Rio Arriba County, New Mexico

Dear Mr. Lemay:

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

I. Background

An APD has been approved for the Blueberry Buckle #1 located 790' FNL and 790' FWL in Section 32, Township 30 North, Range 7 West. After going to hearing, this location was approved as a non-standard Basin Fruitland Coal location by the NMOCD (Order #R-10120). After further study of the logs from the State Pat #1 well (an offset Mesaverde well only 300' from this location), it appears this well has some minor potential in the Pictured Cliffs (PC) Formation. Because the PC zone does not have the reserves to justify a new wellbore or even the incremental cost to dual the existing wellbore, and because it would be mechanically difficult to produce the two zones up separate strings of tubing, we are applying for approval to commingle the zones in the weilbore.

II. Mechanical Justification

Completing this well as a dual Fruitland Coal/PC well would be mechanically difficult for three reasons. First, as can be seen on Exhibit #2, only seven feet separates the bottom coal from the top sand in the PC. A frac job in either of

Page 2 June 24, 1994

these zones will possibly extend into the other zone. Therefore, these zones are likely to be commingled outside the wellbore regardless of how we produce the well (or wells) inside the wellbore. If this application is denied and a single coal well is drilled, this possibly will have an adverse impact on the PC owners.

Second, there is some possibility that we will have to pump water from the Fruitland Coal Formation. In a dual well, that will be difficult with the $5\,1/2''$ casing program we have planned. It would require either larger casing, special tubing, or possibly a small sized pump that would limit production rates.

Third, the seven foot interval between the zones leaves very little room for a packer. In addition, it leaves virtually no rathole for the Fruitland Coal. It is likely that coal fines and/or frac sand produced from the Fruitland Coal will fill the hole, cover at least some of the perfs, and possibly stick the packer.

III. Economic Justification

Exhibit 2 shows the State Pat #1 Neutron-Density Log compared to the NE Blanco Unit #405 log. The State Pat #1 directly offsets the proposed Blueberry Buckle #1, while the NEBU 405, located in the SW/4 of Section 21, Township 30 North, Range 7 West, is the only PC well on production within three miles of the proposed well. The NEBU #405 is currently making around 500 MCFD after six or so months on line.

The NEBU #405 has 22' of Neutron-Density cross-over with an average porosity of 18%. The State Pat #1, on the other hand, has only 12' of Neutron-Density crossover with an average porosity of only 14%. We feel that the skinnier pay, the tighter rock, and the "rattyier" nature of the sand may make the PC unproductive in the Blueberry Buckle #1. However, we would hate not to at least try it in this well, as we feel there is a reasonable chance of the zone producing in the 100 MCFD range.

Using volumetrics and an assumed initial pressure of 1000 psi, PC reserves are expected to be \pm 349 MMCF (see Exhibit 4, part 1, for calculation parameters). Exhibit 3 displays the economics for that IP and those reserves assuming a.) the well is commingled, b.) the well is dualled, and c.) a new well is drilled. The results are summarized below.

230 -59

Incremental Pictured Cliffs Economics

				4 %
	Incremental	Operating		Discountea
<u> Case</u>	Investment	<u> list</u>	ROR Payout	Profit
Commingie	3 60,000	500	49% 1.3 vr	384,200
⊃uai	\$130,000	1000	3%0 vr	\$25,100)
Orill Separate Well	S230,000	.000		\$126,300)

Page 3 June 24, 1994

The economics show that the incremental costs to dual the well (extra string of tubing, packer, separator, tanks, compressor, flowline, meter, etc.) or to drill a new well combined with the incremental costs of operating two well strings versus one will kill the project. Therefore, unless we can commingle the PC with the Fruitland in this well, it is unlikely we will ever produce the reserves out of the PC.

IV. Allocation Formula

Exhibit 4 describes a formula which has been previously approved by the NMOCD for allocating production between the PC and Fruitland where no prior production data existed (Order #R-9881). To summarize, the gas reserves are calculated volumetrically for the PC based on the actual reservoir pressure measured during completion. Based on the test rate during completion, a decline curve and production schedule is generated for the PC to recover the calculated reserves. The difference between the total production from the well and the calculated PC production is allocated to the Fruitland Coal. We feel this is a reasonable method to use for this well. Note that all condensate production will be allocated to the PC.

V. Reservoir Fluid Compatibility

Merrion has no PC or Fruitland Coal water analyses from this specific area. However, the close physical proximity of the PC and the Fruitland during their deposition and burial would indicate that their formation waters are very similar. That conclusion is supported by PC and Fruitland water analyses from nearby areas (see Exhibit 5), where the water compositions are practically identical. Therefore, we expect no problems from fluid incompatibility.

VI. Cross Flow Between Zones

No pressure data is readily available for these two zones in this area. However, due to limited production from these intervals to date, it is expected that both zones will essentially be at virgin reservoir pressure. Because of the close physical proximity of the PC to the Fruitland, we expect the pressures of the two zones to be essentially identical. (Note that we have checked with Meridian on their offset coal wells, and while they won't give us any hard data, they did say that this area is not overpressured in the coal.)

VII. Lease Ownership

Exhibit 1 shows the current ownership of the two leases involved in the commingling of the two zones. As it stands now, Merrion would own 75% of the coal (W/2, Sec. 32) and 50% of the PC (NW/4, Sec. 32), with Cinco General Partnership owning 25% and 50% respectively. We have come to an agreement with Cinco that if commingling is approved, we will equalize ownership in the two formations on a 70% Merrion, 30% Cinco basis. We have come to a similar agreement with the two overriding royalty owners (the Gerbers) who's interest is different in the two formations. Exhibit 6 summarizes the interests before and after equalization. Both Cinco and the Gerbers have been sent copies of this application and, if necessary, can be reached to confirm the nature of our agreements.

VIII. Offset Ownership Notification

Exhibit 1 is a plat showing the offset ownership. All offset owners have been sent a copy of this application. Exhibit 7 is an affidavit to that effect.

IX. Summary

Unless commingling is approved, the PC reserves in the NW/4 of Section 32 will never be produced. Because ownership is (or will be) common, commingling the two zones will minimize costs and maximize reserves and value to all parties involved. Therefore, your prompt approval is requested.

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

riease can me with any que	stions of it additional information is required.
Sincerely, Sincer	ments (March
	Vaiver
	tereby valves objection to this application.
Company	
Name:	

Exhibits

1	Ownership Plat
2	Offset Logs
3	Economics
4	Allocation Formula
5	PC and Fruitland Coal Water Analyses
6	Equalized Ownership Calculations
7	Affidavit of Notification
8	C-102 Plat - Basin Fruitland Coal Pool

C-102 Plat - Navajo City Pictured Cliffs Pool

9

MERRION OIL & GAS Offset Ownership Plat Blueberry Buckle #1 EXHIBIT: Sec 32, 130N, R7W 6/24/94 790' FNL & 790' FML Scale 1:24000. GFS/SEO

40% Flowing Flowing 250 650 54

7777 30	29	
FRUITAND COAL SPACING UNIT PICTURED CLIFFS SPACING UNIT MERIDIAN	SAN JUAN 30 6 UNIT 497 MERIDIAN OIL INC FREDCOAL MERIDIAN	SAN JUAN 30 6 UNIT
SAN JUAN 30 6 IJNIT	PROPOSED BLUEBERRY BUCKLE #	MERIDIAN 33 SAN JUAN 30 6 UNIT ————————————————————————————————————
29N MERIDIAN	SAN JUAN 29 7 UNIT	
Ĝ	₹ TW	

STATE PAT #1 NW/4 SEC. 32, T30N, R7W

NE BLANCO UNIT #405 SW/4 SEC. 21, T30N, R7W

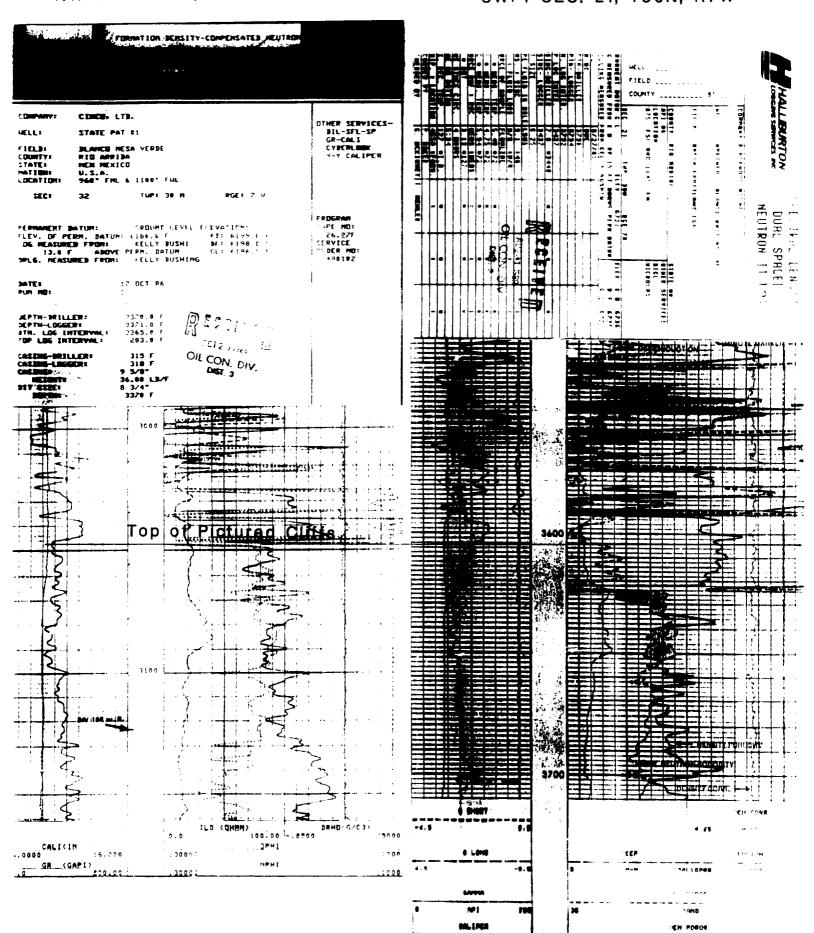


EXHIBIT 3

PICTURED CLIFFS ECONOMICS - COMMINGLE

		Econom	le Dete.		Well Type (Oil, Gas): GAS Economic Indicators								
		Working		100.00%	, 6	, , , , , , , , , , , ,		I					
		Net Reve	nue interest	70.00%					Payout =		Years		
		Productio	on Tax- G	9.10%					DcfROR =				
			Oil	8.2894					!ROI =	4.01			
		Operating	z Cost		3/mo			-	EROI =	5.01			
		Gas bon V) btu/scf			រែ	nieresi raie =	20%			
			e Escalator	1130					nvestment =	60.0	MS		
		Op Cost I			%/уг			Project F	Risk Factor -				
					per yr			.\veraş	ge Oil Price-	\$17.00	/bbl	Present Wo	eth Des Sta
		P&A cost			MS				e Gas Price-	\$1.60	mmbm	% Disc	Value MS
		Constant		УO	(yes/no)						nano.a	14 DESC	
		Beg Oil P		17.00	\$/bbi							1	234.5
		Beg Gas F	rice	1.60	\$/mmbtu							↑°6	146.7
												8%	127.0
		Oll Produ	ction				Gaz Pe	duction				10%	110.4
		1-1-94 Re		0	stb		1-1-94	Reserves	348907 1			12%	96.3
		1-1-94 Q	0		bopd		1-1-94					14%	84.2
	!	Qei			bopd		Qel	₹5		mcfd		16%	73.7
		Decline Fr	action	0.020	per yr			F		metd		18%	64.6
		Life		29.00	Weare			Fraction	0. 083 Ţ	DET YT		20%	56.6
				25.00	1000		Life		19.00 y	/ears		35%	18.3
				ALIE E	The second second							50%	(1.3)
		Begin	End	Avg		~			PRODUCTI	ON	Tenga series	PRICE	
	Ī	Qo	Qo	Prod	Yeariy	Cum	Begin	End	Avg	Yearly	Cum	Oil	Gas
	Year	bopd	bopd	_	Prod	Prod	Qg	Qg	Prod	Prod	Prod	Price	Price
		ЗОРО	осра	bopd	stb	stb	metd	metd	metd	mcf	mct	\$/Bbl	3/mmbtu
	1/1/94											'	
1	1994	0.0	0.0		_								
2	1995	0.0	0.0	0.0	0	0	100	92	96	35,026	35, 026	17.00	1.60
3	1996	0.0	0.0	0.0	0	0	92	85	88	32,236	67,263	17.00	
4	1997		0.0	0.0	0	0	85	78	91	29,669	96,932	17.00	1.60
3	1998	0.0	0.0	0.0	0	0	78	72	₹ 5	27.306	124.238	17.00	1.60
6		0.0	0.0	0.0	9	4)	-3	56	9	25, 131	19,368	7.00	1.60
7	1999 2000	0.0	0.0	0.0	9	9	66	51	63	23,129	172,498	17.00	1,60
		0.0	0.0	0.0	0	0	61	56	5 8	21.287	193,785	17.00	
8	2001	0.0	0.0	0.0	Û	Ú	56	5i	54	19,592	213,376	17.00	1.60
-	2002	0.0	0.0	0.0	9	0	51	17	49	18,031	231,407		i.60
10	2003	0.0	0.0	0.0	0	ŋ	47	44	45	16,595		17.00	1.60
11	2004	0,0	0.0	0.0	-)		: 1	10	12		248,002	17.00	1.60
12	2005	9.0	0.0	0.0	1)	1)	40	, 17	39	15.273	263,276	17.00	1.50
13	2006	0.0	0.0	0.0	Ú	ü	37	34		.4.057	277.332	.7.00	200
14	2007	0.0	0.0	0.0	0	0	34		35	12,937	290,269	17.60	caó
15	2008	0.0	0.0	0.0	0	0	31	31	33	11,907	302,176	17.00	1.60
16	2009	0.0	0.0	0.0	0	0		29	30	10,958	313,134	17.00	1.60
17	2010	0.0	0.0	0.0	0	0	29	27	28	10,086	323,220	17.00	1.60
18	2011	0.0	0.0	0.0	0	0	27	21	25	9.282	332,502	17.00	1.60
19	2012	0.0	0.0	0.0	0		24	22	23	8.543	341,045	17.00	.60
20	2013	9.0	9.0	0.0	0	()	22	21	22	7.862	348.907	17.00	(.e0
		/. V	J. U	0.0	()	()	11	10					
-0					,	• • • • • • • • • • • • • • • • • • • •	21	19	20	7.236	356.144	17.00	. ^0

_		INVE	STREET		Anmei	Anmei	NBT CA	SHFLOW			
		Gross Invest	Net Invest	Operating	Revenue	Revenue	Annual	Cum	2004	Discon	nted
-	Year	MS	M3	M3	Oil M3	Gas MS	Profit M3	Profit M3	20% Discount	Ammal Profit	Cum Profit
1	i/1/ 94	60.0	60.0					.71.0	Factor	M\$	\f 5
2	1994			6.0	0.0		(60.0)	(60.0)	1.22		
3	1995			6.0	0.0	41.0	35.0	(25.0)	1.00	(60.0)	,60,0
4	1996			6.0	0.0 0.0	37. <u>7</u>	31.7	6.8	9. 83 9. 69	29.2	.30.8
5	1997			6.0	0.0	34.7	28.7	35.5	0. 69 0, 58	22.0	(8.8)
5	1998			5.0	0.0	32.0	26.0	61.5	0.48	16.6	7.8
7	1999 2000			ნ. 0	0.0	29.4	23,4	34.9	9. 4a 9.40	12.5	20.4
8				6.0	0.0	27.1	21.1	106.0	9.33	1. \$	29.8
9	2001 2002			6.0	0.0	24.9	13.9	121.9	0.28	:!	ነሰ.ያ
10	2002			6.0	0.0	22.9	16.9	141.8	0.23	*.3 •	13.1
11	2003			6.0	0.0	21.1	15.1	156.9	0.19	3.9	46.1
12	2005			6.0	0.0	19.4	13.4	170.4	0.16	2.9	49.0
13	2005			6.0	0.0	17.9	11.9	182.2	0.13		§1.2
4				5.0	0.0	16.5	.0.5	192.7	1.11	1.6	52.8
.5	2007			6.0		15.1	2.1	201.8	ਹ. 09	1.2	53.9
	2008			6.0	0.0	13.9	7.9	209.8		0. 9	14 8
6	2009			6.0	0.0	12.8	6.8	216.6	9.08	1.6	15.4
7	2010			6.0	0.0	11.8	5. 8	222.4	0.06).4	55.9
8	2011				0.0	10.9	4.9	227.3	0. 05	0.3	56.2
9	2012			6.0	0.0	i0.0	÷ û		0.05	0.5	56.4
)	2013			6.0	0.0	9.2	3.2	231.3	0.04	0.2	56.5
				6.0	0.0	3.5	2.5	234.5	0.03	0.1	56.6
							4. 2	237.0	9.03	4.1	6.7

PICTURED CLIFFS ECONOMICS - DUAL

		Economic Data			Well Ty	pe (Oil, Gas): GAS	Economic Indicators					
		Working	Interest	100.00%	<u> </u>	• , ,). <u>[</u>	<u>.</u>					
			enne Interest	70.00%	•				Payout =		Years		
		Production	on Tax- G	9.10%	1				DcfROR =	,			
			ાં	8.28%					IROI =		\$/\$		
		Operating	z Cost		\$/mo				EROI =		S/S		
		Gas ben v			btu/scf				mierest rate =	20%	,		
			e Escalator	1150	%/yr				investment =	130.0	MS		
		Op Cost 1			-			Project	Risk Factor -				
		P&A cos			per yr			Avers	ge Oil Price-	\$17.00	/hhi	Present Wo	al Barella
					M\$			¹ve <u>ra</u>	ge Gas Price-		<u>,យាជា</u> ជុំ ប្រ	% Disc	
		Constant		NO	(yes/no)				-	41.7.	out the state of t	• DEC	Value MS
		Beg Oil P		17.00									50.5
		Beg Gas i	rice	1. 60	\$/mmbtu							6%	97
												8%	(0.7)
		Oll Produ	ıction				Con D.	ander and a				10%	(9.8)
		1-1-94 R	escrves	0	stb		1 1 04	oduction Reserves			•	12%	(17.9)
		1-1-94 Q	0	0.00			1-1-94	Keserves	348907 1		<u> </u>	14%	(25.1)
		Qei		0.00	hond		1-1-94	Qg	100 1			16%	(31.5)
		Decline Fi	raction	0.080	oopu		Qel	_		nctd		18%	(37.3)
		Life		20.000	her Ar			Fraction	0.0 83 p	DET VT		20%	(42.4)
	i			29.00	ACSER		Life		19.00 y	'ears		35%	
			00000000	-furtherenting	******************************							50%	(68.8) (83.2)
			CH S	en per pri				GAS	PRODUCTI	ON			
	i	Begin	End	Avg	Yearly	Cum	Beem	End	Ave	Yeariv	Cum	PRICE	A STATE OF THE PARTY OF THE PAR
	Year	Qo	, Qo	Prod	Prod	Prod	Qg	Qg	Prod	Prod		Oil	Gas
	1001	bopd	bopd	bopd	stb	∍tb	metd	mcfd	mefd	mef	Prod	Price	Price
	1/1000									mei	met'	\$/Bbl	\$/mmbtu
1	1/1/94												
1	1994	0.0	0.0	0.0	0	0	100	92	96	15.00			
2	1995	0.0	0.0	0.0	0)	92	85	38	35,026	35,026	17.00	1.60
3	1996	0.0	0.0	0.0	0	1	35	78	9 <u>1</u>	32,236	67,263	17.00	1.60
4	19 97	0.0	0.0	9.0	0	: 1	73	-3		29,669	96,932	17.00	.50
5	1998	0.0	0.0	0.0	i i	1	~~		75	27.306	124,238	17.00	1.50
6	1999	0.0	0.0	0.0	ن		•	5 6	59	25, 131	149,368	17,00	1.50
7	2000	0.0	0.0	0.0	0	<i>⊎</i> 1	9 6	ol	63	23,129	172,498	17.00	i.60
8	2001	0.0	0.0	0.0	0	,	7 i	56	.5 8	21.287	19 3,785	17.00	1.60
9	2002	0.0	0.0	0.0	0		š6	51	M	19,592	213,376	17,00	1.50
10	2003	0.0	0.0	9.0		1	41	17	19	18.031	231,407	17.00	60
1	2004	0,0	0.0	41.0	·)		17	-4	15	16.595	248,002	17.00	
i2	2005	0.0	0.6	0.0			. 1	11)	:2	14,273	263,276	7,00	.5,61
13	2006	0.0	0.0	0.0	()		10	ب ز	` 9	14.057	277.332	7.20	0
14	2007	0.0	0.0		t)	ز.	37	.34	35	12,937	190,269	17.00	.30
15	2008	0.0		0.0	0		11	31	33	11,907	302,176	17.00	50
16	2009	0.0	0.0	0.0	()	* 1	31	29	.70	10,958	313,134	17.00	1.60
17	2010	0.0	0.0	0.0	0	()	29	27	28	10.086	323,220	17.00	60
8	2011	0.0	9.0	0.0	()		27	:;	25	9.282	332,502		1.60
.9	2011		0.0	0.0	2		:	:2	33	3,543	341,645	17.00	24)
.9 :0		0.0	0.0	6.0			.2			1362		7.00	
.U	2013	0.0	虫0	0.0	- }		21	9	20		18.907	17.00	j. !
							•	~		7 236	56.114	· ~ ~ 17	

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		INVE	THEFT	200000	Annual	Annusi				Discou	nted
		Gross	Net		Revenue	Revenue	Annual	Cum	20%	Annual	Cum
	i i	invest	Invest	Operating	Oil	Gas	Profit	Profit	Discount	Profit	Profit
	Year	MS.	M 3	M3	VI3	MS .	V(\$	M3	Factor	M3	M3
	1/1/94	130.0	130.0				(130.0)	(130.0)	1.00	(130.0)	(130.0)
l	1994			12.0	0.0	41.0	29.0	(101.0)	0.83	24.2	(105.8)
2	1995			12.0	0.0	37.7	25.7	(75.2)	△.69	17.9	(37.9)
3	1996			12.0	0.0	34.7	70.7 :5:	(5 <u>2.5</u>)	1.58	13.2	71.81
4	1997			12.0	0.0	32.0	20.0	(32.5)	0.48	9.6	(65.2)
5	1998			12.0	0.0	29.4	7.1	(15.1)	0.40	7.0	(58.2)
0	1999			12.0	0.0	27.1	15.1		9.33	5.1	(53.1)
-	2000			12.0	0.0	21.9	12.9	12.9	1.28	" f	19.51
8	2001			12.0	0.0	22.9	10.9	23.8	9.23	2.5	(47.0)
9	2002			12.0	0.0	21.1	9.1	3 2.9	0.19	1.8	(45.2)
10	2003			12.0	0.0	19.4	7.4	40.4	0.16	1.2	(44.0)
! 1	2004			12.0	0.0	17.9	5.9	46.2	0.13	9.8	(43.2)
12	2005			12.0	0.0	16.5	4.5	50,7	0.11	9.5	(12,7)
13	2006			12.0	0.0	15.1	3.1	53.8	0.09	0.3	(42.4)
14	2007			12.0	0.0	13.9	1.9	5 5.8	.).08	7.2	(42.3)
15	2008			12.0	0.0	12.8	0.8	56.6	0.06	0.1	(42.2)
16	200 9			12.0	0.0	11.8	(0.2)	56.4	0.05		(42.2)
17	2010			12.0	0.0	10.9	(1.1)	55.3	0.05	(0.1)	(42.3)
18	2011			12.0	0.0	10.0	+2.6)	53.3	0.04	(0.1)	(12.5)
19	2012			12.0	0.0	9.2	2.8)	50.5	9.03	0.1)	(42.4)
20	2013			12.0	0.0	3.5	(3.5)	47.0	0.03	(0,1)	(42.5)

PICTURED CLIFFS ECONOMICS - NEW WELL

	****					e (Oil,Gas):	GAS		Economic In	dicators			
		Working I	nierest	100.00%		,	· 	•	Payout =	#REF!	Years	•	
		Net Reven	ne Interest	70.00%					DcfROR =	#NUM!			
		Production	n Tax- G	9.10%					ROI =	(0.13)	S/S		
			Oil	8.28%					EROI =	0.82			
		Operating	Cost	1,000	\$/mo			ែរ	erest rate =	20%			
		Gas box V		1150	btu/scf			In	vestment =	230.0			
		Prod Price	Escalator		%∕уг			Project Ri	isk Factor -				
		Op Cost E	scalator		per yr			Average	e Oil Price-	\$17.00	bbl	Present Wo	nh Profile
		P&A cost		15	MS			_	Gas Price-	\$1,60	.mmphi	% Disc	Vaine MS
		Constant F	rices:	NO	(yes/no)								(64.5)
		Beg Oil Pr		17.00								6°6	(95.2)
		Beg Gas P			\$/mmbtu							8%	(104.1)
		208 1										10%	(112.3)
		Oil Produ	ction				Gas Pre	duction				12%	(119.7)
		1-1-94 Re	serves	0	stb			Reserves	348907 r	ncť	!	14%	(126.3)
		1-1-94 Qc	,	0.00	bopd		1-1-94	Qg	100 t	nctd	•	16%	(132.4)
		Qel			bopd		QeL			nctd	! !	18%	(137.9)
		Decline Fr	action		рет ут			Fraction	0.083		1	20%	(142.9)
		Life			vears		Life		19.00		İ	35%	(168.8)
										·	1	50%	(183.3)
			OIL	RODUCT	(GIV			GAS	PRODUCTI	ON	. a contra	PRIC	
		Begin	End	Avg	Yeariy	Cum	Begin	End	Avg	Yeariv	Cum	Oil	Gas
		Qo	Qo	Prod	Prod	Prod	Qg	Qg	Prod	Prod	Prod	Price	Price
	Year	bopd	bopd	bopd	atb	аb	mefd	nerd	metd	met	mef	\$/Bbl	S/mmbtu
	1/1/2004												
1	1/1/94 1994		0.0	0.0	0	0	100	92	96	35,026	35,026	17.00	1.60
2	1995		0.0	0.0	0	0	92	85	88	32,236	67,263	17.00	1.60
3	1996		0.0	0.0	0	,	25	.3	31	29,669	96,932	17.00	1.00
4	1997		0.0	0.0	ā		-3	.3	75	27.306	.24.238	17.00	1.50
5	1998		0.0	2.0	. 1			าท์	, Q	25,121	119,368	17,00	
6	1999		0.0	0.0	O.	ij	56	oi	63	23,129	172,498	17.00	.60
7	2000		0.0	0.0	4)	ij		1 6	58	21,287	193,785	17.00	1.00
8	2001	0.0	0.0	0.0	9	1	745	31	54	9,592	213,376	17.00	i, ŝu
9	2002		0.0	0.0	i)	1	₹ [£	19	18,031	231,407	17.00	5,00
(0)				2.0									
	2003		0.0	7.0 1.0				1.1	15	16.595	148,002	:7.00	21
: :		0.0			;			:. 1)	15 12	16.595 15.273	24 8.002 26 3.2 76	17.00 17.00	- 19e
11	2003	0,0 10,0	0.0	(-)	<i>;</i>		_ ~						
	20 03 2004	3 0.0 3 0.0 5 0.0	0.0 9.0	10) 200	.i	1	1	ai j	12	15,273	263,276	7,00	90
12	20 03 2004 2005	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0	10) 20 10)	1	J	4	dj -	12	15 .273 . 1.457	263,276 277,232 290, 269	7,00 : 7,10 1 7,00	
12 13	20 03 2004 2005 2006	3 0.0 4 0.0 5 0.0 6 0.0 7 0.0	0.0 9.0 9.0 0.0	(a) 2.0 (d) 0. 0	.;			3) 	(2 9 35	15,273 ,4,657 12,937	26 3.27 6 277.232	7,0 0 , 1,00	an .ac
12 13 14	2003 2004 2005 2006 2007	3 0.0 5 0.0 5 0.0 7 0.0 8 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	.) ()	1	27 34 37 34	34 31	12 9 35 33	15.273 14.657 12.937 11.907	263.276 277.232 290,269 302.176	7,00 ; 1,00 17,00 17,00	
12 13 14 15	2003 2004 2005 2006 2007 2008	3 0.0 4 0.0 5 0.0 7 0.0 8 0.0 9 0.0	0.0 9.0 9.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	.a •) •)	1	27 34 34 31	34 31 29	12 9 35 33 30	15.273 14.057 12.937 11.907 10.958	263,276 277,232 290,269 302,176 313,134	17.00 17.00 17.00 17.00 17.00 17.00	
12 13 14 15 16	2003 2004 2005 2006 2007 2008	3 0.0 6 0.0 6 0.0 7 0.0 8 0.0 9 0.0 9 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	.a •) •)	1	37 34 31 32	34 34 31 29 27	12 9 35 33 30 23	15,273 14,657 12,937 11,907 10,958 10,086	263,276 277,232 290,269 302,176 313,134 323,220	17.00 17.00 17.00 17.00 17.00 17.00	
12 13 14 15 16 17	2003 2004 2005 2006 2007 2008 2009	3 0.0 6 0.0 6 0.0 7 0.0 8 0.0 9 0.0 1 0.0 1 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	.a •) •)	1	37 34 34 31 22 27	34 31 29 27 21	2 9 35 33 30 28 25	15.273 14.657 12.937 11.907 10,958 10,086 9.282	163,276 177,232 290,269 302,176 313,134 323,220 332,502	17.00 17.00 17.00 17.00 17.00 17.00	

	_					in in the second	NET CAS	HFLOW			
		INVE		F 23. 10 13 13	Annual	Annusi				Discou	nted
		Gross Invest	Net Invest	Operating	Revenue Oil	Revenue Gas	A nnual Profit	Cum Profit	20% Discount	Annuai Profit	Cum Profit
	Year	MS	M3	MS	M3	M 3	<u> </u>	V(3	Factor	M\$	M3 H
	1/1/94	230.0	230.0				(230.0)	(230.0)	1.00	(230.0)	(230.0)
1	1994			12.0	0.0	41.0	29.0	(201.0)	0.83	24.2	(205.8)
3	1995			12.0	0.0	37.7	25.7	(175.2)	0.69	17.9	(187.9)
3	1996			12.0	0.0	34.7	32.7	(152.5)	0.58	13.2	(174.8)
4	1997			12.0	0.0	32.0	20.0	(132.5)	0.48	9.6	(165.2)
5	1998			12.0	0.0	29.4	17.4	(115.1)	0,40	- o	(158.2)
Ó	19 99			12.0	0.0	27.1	15.1	(100.0)	4.33	- 1	(153.1)
-	2000			12.0	9.0	24.9	12.9	(37.1)	-0.23	3.6	(149.5)
3	2001			12.0	0.0	22.9	10.9	(76.2)	0.23	2.5	(147.0)
9	2002			12.0	0.0	21.1	9.1	(67.1)	0.19	1.8	(145.2)
10	2003			12.0	0.0	19.4	7.4	(5 9.6)	0.16	2	(144.0)
11	2004			12.0	0.0	17.9	5.9	(53.8)	0.13	J. S	(143.2)
12	2005			12.0	9.0	16.5	1.5	(49.3)	9.11	9.5	(142.7)
13	2006			12.0	0.0	15.1	3.1	(46.2)	9.09	1.3	(142.4)
14	2007			12.0	0.0	13.9	1.9	(44.2)	s).0 8	9.2	(142.3)
15	2008			12.0	0.0	12.8	0.8	(43.4)	0.06	0.1	(142.2)
16	2009			12.0	0.0	11.8	(0.2)	(43.6)	0.05		(142.2)
17	2010			12.0	0.0	10. 9	(1.1)	(44.7)	0.05	(0.1)	(142.3)
i8	2011			12.0	0.0	10.0	(2.0)	(46.7)	0.04	(0.1)	(142.3)
19	2012	15	15.0	12.0	0.0	9.2	(17.8)	(64.5)	0.03	(0.6)	(142.9)
20	2013	,,,		12.0	0.0	8.5	3.5)	(68.0)	0.03	(0.1)	(143.0)

• • •

BLBKLHRGXLS

EXHIBIT 4

BLUEBERRY BUCKLE #1 MONTHLY GAS PRODUCTION ALLOCATION FORMULA

GENERAL METHODOLOGY

- 1. CALCULATE PICTURED CLIFFS (PC) RESERVES FROM VOLUMETRICS.
- 2. CALCULATE PC INITIAL MONTHLY PRODUCTION PRODUCTION RATE BASED ON INITIAL FLOW TEST.
- 3. BASED ON OPERATING COSTS OF \$500/MO, CALCULATE PC ABANDONMENT PATE.
- 4. KNOWING INITIAL RATE, FINAL RATE, AND RESERVES, CALCULATE PC DECLINE RATE.
- 5. CAN NOW GENERATE PC PRODUCTION SCHEDULE FROM NOW TILL ABANDONMENT.
- 6. CALCULATE FRUITLAND COAL PRODUCTION RATE FOR EACH MONTH BY SUBTRACTING PC RATE FROM TOTAL RATE.

1. CALCULATE PC RESERVES FROM VOLUMETRICS

Gp = [7758 * O * h * A * (1 - Sw) / Bg] * Rf * BTU Factor

where:

Gp = Ultimate PC gas reserves in MMBTU.

7758 = Bbls/ac-ft conversion.

0 = porosity = 14%

h = Net pay = 12 Feet

A = Drainage area = 160 ac.

 $\Im w =$ water saturation = 50%.

Bg = gas formation volume factor (RVB/Mcf) = 5.04 * z * T / P.

z = gas deviation factor at reservoir conditions = 0.90.

T = Reservoir temperature = 100 F = 560 R.

P = reservoir pressure as measured during initial completion of PC.

Rf = gas recovery factor = 85%

BTU Factor = MMBTU/MCF from initial PC gas analysis.

THEREFORE:

Gp = [7758 * .14 * 12 * 160 * (1-.5) / (5.04 * .90 * 560 / P }] * .85 * BTU Factor

Gp (mmbtu) = 349 (mct/psia) * P (psia) * BTU Factor (mmbtu/mct)

2. CALCULATE PC INITIAL MONTHLY PRODUCTION RATE

 $Qpc(1) = Qt(1)^{-} \{Qpc(test) / [Qpc(test) + Qfc(test)]\}$

and

Qpci(decline) = Qpc(1) * 30.4 / Days Prod(1)

where

Qpc(1) = first month PC production in mmptu/mo.

Qt(1) = first month total production in mmbtu/mo.

Qpc(test) = final PC flow test in mmotu/day.

BLBKLHRGXLS

Qfc(test) = final Fruitland Coal flow test in mmbtu/day.

Days: Prod(1) = numbered days the well-was on in the first month:

Qpci(decline) = initial monthly production rate to be used in forcasting future PC production .

Units are in MMBTU/MO.

3. CALCULATE PC ABANDONMENT RATE

Qpca = Op Cost / {Price * NRI * (1 - Tax)}

where

Qpca = PC abandonment rate in mmbtu/mo.

Op Cost = monthly operating expense = \$500/mo.

Price = wellhead gas price = \$1.65/mmbtu.

NRI = average net revenue interest = 80%.

Tax = state & local severance and advalorem taxes = 9%.

THEREFORE

 $Qpca = 500 / \{1.65 * .80 * (1-.09)\}$

Qpca = 416 mmbtu/mo

4. CALCULATE PC DECLINE RATE

D = {Opci(decline) - Opca} / Gp

where

D = nominal decline rate (fraction/mo)

Opci(decline) = initial monthly production rate in mmbtu/mo as calculated in Step 2.

Qpca = PC abandonment rate in mmbtu/mo = 396 mmbtu/mo.

Gp = Ultimate PC gas reserves in MMBTU as calculated in step 1.

5. CALCULATE PC PRODUCTION IN FUTURE MONTH "X"

Qpc(x) = Qpci(decline) * exp (-D * tfx)}

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where

Qpc(x) = PC production in mmbtu for month "x".

Opci(decline) = initial monthly production rate in mmbtu/mo as calculated in Step 2.

D = nominal decline rate (fraction/mo) as calculated in Step 4.

t(x) = number of months from initial production to month "x".

6. CALCULATE FRUITLAND COAL RATE IN FUTURE MONTH "X"

Qfc(x) = Qt(x) - Qpc(x)

where

Qfc(x) = Fruitland Coal production in mmbtu in month "x".

Qt(x) = total well production in mmbtu in month "x".

Qpc(x) = PC production in mmbtu for month "x" as calculated in Step 5.

ALYSIS NO. 51-34-91

API FORM 45-1

FIELD RECEIPT NO.

API WATER ANALYSIS REPORT FORM

Merrion	011 + 695	Sample No.	Date Sampled
Field	Sec. 9 T26	N, IZN County or 1	Parish State
Lease or Unis	Well SUSCO #3	Depth Formation	Water. B/D
Type of Water (Produced	Supply, etc.) Sampling Po		Sampled By

DISSOLTED SOLIDS			OTHE
CATIONS Sodium, Na (ceia) Calcium, Ca Magnesium, Mg Barium, Ba Potassium, K	340 60 aa 34	101.74 3.00 1.80	pH Specifi Resisti Tota
ALNIONS Chloride, Cl Sulfata, SO ₄ Carbonate, CO ₃ carbonate, ECO ₃	3609 0 34a	101.81 0 0 5.60	Na _l III.

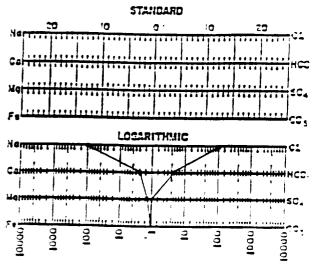
Total Dissoived Solids (calc.) 6407

Fon. Fe (total) Hoff 0,0 opm
Suifide as H.S nog

RELLERES & RECOURTDATIONS:

OTHER PROPERTIES	
p H	_7.85
Specific Gravity, 60/60 F.	1.003
Specific Gravity, 60/60 F. Resistivity (ohm-meters) 74 F.	.90
Total hardness	340

WATER PATTERNS - ma/l



ANALYST: 25000

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

'PI FORM 45-1

API WATER ANALYSIS REPORT FORM

Company Morrison Oil	4 Hss)	Sainple No.	Date Sampled
Field	NW/NW 3.	35 T2 TN RISW LAND	rian State
Lease or Unit NM 33049	Well # 4	Depth Formation	Water, BID
Type of Water (Produced, S	upply, etc.) Sampling	Point o pat	Sumpled By J. M Crilate
DISSOLVED SOLIDS	,	OTHER PROPER	TIES
CATIONS Sodium, Na (cale.) Calcium, Ca Magnesium, Mg Barium, Ba Potassium, K 2076 2076 2076 2076 2076 2076 2076 207	90.66 1.17 .66	pH Specific Gravity, 60 Resiativity (edim-m Total Handnes:	leters) 59 F. 1.61
ANIONS		WATEI	PATTERNS — megi
Chloride, Cl Sulfate, SO, Carbenate, COa Ricarbonate, IICOa Androx ide, Oll O	89.4 52 	Wd ++++ ++++ ++++ ++++ ++++ ++++ ++++ ++++ +++++ ++++++	+ 1111 1111
Total Dissolved Solids (calc.) 5582 (meas.) Iron, Fe (total) Ferra Formo Sulfide, as H ₂ S Mon press		Maining property continues and the	
REMARKS & RECOMMENDATIONS:			-

Malyst . Schart

BBKEQUALXLS

EXHIBIT 6 INTEREST EQUALIZATION

1. PICTURED CLIFFS OWNERSHIP

A. NW/4 SEC 32, LEASE # E-178-8

	BEFORE EC	PUALIZATION	AFTER EQ	UALIZATION
	WI	NRI	WI	NRI
MERRION OIL & GAS CORP	0.50000	0.35000	0.70000	0.48880
CINCO GENERAL PARTNERSHIP	0.50000	0.50000 0.42383 0.30000		0.25430
EDWARD GERBER TRUST		0. 03691		0. 05228
RIS GERBER DAMSON		0. 03691		Ú. 05228
SIDNEY LAUB		0. 02734		0.02734
STATE OF NEW MEXICO (RLTY)		0.12500		0.1 2500
	1.00000	1.00000	1.00000	1 00000

11. FRUITLAND COAL OWNERSHIP

A. NW/4 SEC 32, LEASE # E-178-8 (50%)

	BEFORE EG	UALIZATION	AFTER EQUALIZATIO		
	WI	NRI	WI	NRI	
MERRION OIL & GAS CORP	0.50000	0.35000	0.40000	0.23450	
CINCO GENERAL PARTNERSHIP EDWARD GERBER TRUST	0. 50000	0.42383	9. 60000	0. 50859	
		0.03691		0.05228	
IRIS GERBER DAMSON		0. 0369 1		0.05228	
SIDNEY LAUB		0. 02734		0.02734	
STATE OF NEW MEXICO (RLTY)		0.12500		0.1 2500	
	1.00000	1.00000	1.00000	1.00000	

8. SW/4 SEC 32, LEASE # E-178-9 (50%)

	BEFORE EC	UALIZATION	AFTER EQ	UALIZATION
	₩I	NRI	WI	NRI
MERRION OIL & GAS CORP	1.00000	0.70000	1.00000	J.74310
CINCO GENERAL PARTNERSHIP	0.00000	0.00000	0.00000	0.00000 0.05228
EDWARD GERBER TRUST		0.07383		
IRIS GERBER DAMSON		0.07383		0.05228
SIDNEY LAUB		0.02734		0.02734
STATE OF NEW MEXICO (RLTY)		0.1 2500		0.1 2500
	1.00000	1.00000	1.00000	1.00000

C. NET FRUITLAND OWNERSHIP

	BEFORE EQUALIZATION		AFTER EQI	UALIZATION	
	WI	NRI	WI	NRI	
MERRION OIL & GAS CORP	0.75000	0.52500	J. 70000	0.48880	
CINCO GENERAL PARTNERSHIP	0.25000	0.21191	0.30000	0.25430	
EDWARD GERBER TRUST		0. 05537		0. 05228	
IRIS GERBER DAMSON		0. 05537		0.05228	
GIDNEY LAUB		0.02734		0.02734	
STATE OF NEW MEXICO (RLTY)		0.12500		0.1 2500	
	1.00000	1.00000	00000	1.00000	

Exhibit 7

Affidavit of Notification

The following companies were sent certified copies of the application for downhole commingling of the Basin Fruitland Coal and the Navajo City Pictured Cliffs Pools in the Blueberry Buckle #1.

- 1.) Meridian Oil Inc.P. O. Box 4289Farmington, New Mexico 87499
- 2.) Cinco General Partnership P. O. Box 451 Albuquerque, New Mexico 87103
- 3.) Edward Gerber Trust and Iris Gerber Damson c/o Mr. Kenneth Dubroff
 Cuddy & Feder
 90 Maple Ave.
 White Plains, New York 10601

Signed	Date
George F. Sharpe	
	ACKNOWLEDGEMENT
STATE OF NEW MEXICO) ss	
COUNTY OF SAN JUAN)	
The foregoing instrume	ent was acknowledged before me this of 4, by George F. Sharpe.
My commission expires:	Notary Public

PO Drawer DD, Artesia, NM 88211-6719 District III 1000 Rio Brans Rd., Azies, NM 87410

State of New Mexico

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

EXHIBIT 8

Form C-102 Revised February 21, 1994

instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

District IV				34	uita i C, i vi	W 0750 -200 0			ree cease - 3 Copie.	
PO Bez 2008, Se	inta Fe, NM	87504-3000·						□ A	MENDED REPORT	
		WE	LL LO	CATIO	N AND A	CREAGE DEDI	CATION P	LAT		
	API Numb	er		¹ Pool Cod	le		' Poet N	lame		
20	-029-	25415		71629		∃asin F	ruitland Co	oal		
' Property		7773	<u>_</u>		³ Prope	rty Name		i	' Well Number	
1504	10		ווו זב	rappov	BERRY BUCKLE # 1					
OGRID			יטעכ	CDEICKI		tor Name		i	· Elevation	
014634			MERI	RION O	IL & GAS	CORPORATIO	N		52081	
					10 Surfac	e Location				
UL or let me.	Section	Towaship	Range	Lot ide	Feet from the	North/South line	Feet from the	East West line	County	
D	32	30N	7 W		790	NORTH	790	West	RIO ARRIB	
			11 Bot	tom Hoi	e Location	If Different Fr	om Surface			
UL or ict me.	Section	Township	Range	Lot ida	Feet from the	North/South tine	Feet from the	East/West tipe	County	
12 Dedicated Ac	res ¹³ Joint	or infil 14 (Comovidatio	Code 15 (Order No.					
320		Y	P							
NO ALLO	WABLE	WILL BE A	SSIGNE	D TO TH	IS COMPLE	TION UNTIL ALL	INTERESTS I	HAVE BEEN	CONSOLIDATED	
		OR A	NON-ST	ANDARD	UNIT HAS	BEEN APPROVED	BY THE DIV	/ISION		
10	N	//////////////////////////////////////	/////// *****	7			17 OPE	RATOR CE	RTIFICATION	
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/ *				3				The same	< 1/	
** 	D 170						Signature			
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10 Drawer DD, Artesia, NM 88281-4719

1000 Rio Brame Rd., Aziec, NM 87410

District III

District IV

State of New Mexico

EXHIBIT 9

Form C-ic Revised February 21, 199 Instructions on bac Submit to Appropriate District Offic

State Lease- 4 Copie Fee Lease - 3 Copie

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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