# BURLINGTON RESOURCES

 $\mathcal{L}_{\mathcal{F}}$ 

MID-CONTINENT DIVISION 12-22-97

EGEIV (

DECERVATION DIVISION

Mr. David Catanach, Petroleum Engineer State of New Mexico Energy, Minerals and Natural Resources Dept. Oil Consevation Division 2040 South Pacheco Santa Fe, New Mexico 87505-

Re: Proof of Offset Operator Notification Signed Certified Return Receipt Attached

(3) Applications for Downhole Commingling Burlington Resources Oil & Gas Company

Checkerboard 23 Federal #8 G, Sec. 23, T22S, R32E, Lea Co., NM API 30-025-32626 Red Tank Bone Spring & West Red Tank Delaware Pools

Checkerboard 23 Federal #11 B, Sec. 24, T23S, R32E, Lea Co., NM API 30-025-32628 Red Tank Bone Spring & West Red Tank Delaware Pools

Redchecker 14 Federal #1 P, Sec. 14, T22S, R32E, Lea Co., NM API 30-025-32764 Red Tank Bone Spring & West Red Tank Delaware Pools

Dear Mr. Catanach:

Enclosed is a copy of the signed certified return receipt # P 497-352-036 dated November 25, 1997 as proof of offset notification to Progo Prudicing Company who is the offset operator for all of the above applications to downhole commingle.

The originals applications were sent to you for administrative approval on November 19, 1997.

Sincerely, Maria L. Perez

Maria L. Perez, Regulatory Rep.

A/C 915-688-6906

## BURLINGTON RESOURCES

MID-CONTINENT DIVISION

Mr. David Catanach, Petroleum Engineer State of New Mexico Energy, Minerals and Natural Resources Dept. Oil Consevation Division 2040 South Pacheco Santa Fe, New Mexico 87505-

Re: Proof of Offset Operator Notification Signed Certified Return Receipt Attached

有名字名字在名物种种的现在分词使有效的有效的现在分词使用的自己的名词名的

(3) Applications for Downhole Commingling Burlington Resources Oil & Gas Company

Checkerboard 23 Federal #8 G, Sec. 23, T22S, R32E, Lea Co., NM API 30-025-32626 Red Tank Bone Spring & West Red Tank Delaware Pools

Checkerboard 23 Federal #11 B, Sec. 24, T23\$, R32E, Lea Co., NM API 30-025-32628 Red Tank Bone Spring & West Red Tank Delaware Pools

Redchecker 14 Federal #1 P, Sec. 14, T22S, R32E, Lea Co., NM API 30-025-32764 Red Tank Bone Spring & West Red Tank Delaware Pools

Dear Mr. Catanach:

Enclosed is a copy of the signed certified return receipt # P 497-352-036 dated November 25, 1997 as proof of offset notification to Progo Prudicing Company who is the offset operator for all of the above applications to downhole commingle.

The originals applications were sent to you for administrative approval on November 19, 1997.

Sincerely,

Mary L. Pere Maria L. Perez, Regulatory Rep.

A/C 915-688-6906

3300 N. "A" St., Bldg. 6, 79705-5406, P.O. Box 51810, Midland, Texas 79710-1810, Telephone 915-688-6800

## 12-22-97

TO: Mr. David Catanach, Petroleum Engr.
State of New Mexico
Energy, Minerals and Natural Resources Dept.
Santa Fe, New Mexico
FAX No. 505-827-1389

FR: Maria L. Perez
Burlington Resources Oil & Gas Company
Midland, Texas
Tel. No. 915-688-6906

RE: Proof of Offset Operator Notification Signed Certified Return Receipt was to make the same

SENDER:  Complete items 1 and/or 2 for additional services.  Complete items 3, 4s, and 4b.  Printy your name and address on the reverse of this form so the card to you.  Attach this form to the front of the mailpiece, or on the back if permit.  Write *Return Receipt Requested* on the mailpiece below the The Return Receipt will show to whom the article was delivered.	et we can return this space does not anticle number.	also wish to receive the oldowing services (for an extra fee):  1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.			
3. Article Addressed to: Pogo Producing Company	4a. Article Number P 497 352 036				
P.O. Box 10340 Midland, Texas 79702	4b. Service Type  Registered C C Express Mail III				
	7. Date of Delivery 2 5 1997				
5. Received By: (Print Name)  8. Significate: (Addresses or Afgril)	Addresses's Address (Only if requested and fee in paid)				

SENDER:  Complete items 1 and/or 2 for additional services.  Complete items 3, 4a, and 4b.  Print your name and address on the reverse of this form so that we card to you.	I also wish to receive the following services (for an extra fee):  1.  Addressee's Address 2.  Restricted Delivery Consult postmaster for fee.			
Attack this form to the front of the mailpiece, or on the back if spa- permit.				
Write *Return Receipt Requested* on the mailpiece below the article number.  ■The Return Receipt will show to whom the article was delivered and the date delivered.				
				3. Article Addressed to:
Pogo Producing Company	P 497 3	97 352 036		
P.O. Box 10340	4b. Service Type			
Midland, Texas 79702	☐ Registered ☐ Certi			
	☐ Express Mail ☐ ins			
	☐ Return Re	celpt for Merchandis	GOD 🗆	
	7. Date of D	NOV 25	997	
5. Received By: (Print Name)	Addressee's Address (Only if requested and fee is paid)			
6. Signature: (Addressee or Agent)	7			

.

BURLINGTON RESOURCES OIL & GAS COMPANY, OGRID NO. 26485 ADMINISTRATIVE APPROVAL REQUESTED TO DOWNHOLE COMMINGLING THE REDCHECKER 14 FEDERAL #1, PROPERTY CODE 16212 P, 14, T22S, R32E, LEA COUNTY, NM

### **OFFSET NOTIFICATION LIST:**

POGO PRODUCING COMPANY P. O. BOX 10340 MIDLAND, TEXAS 79702

	Bilbrey Fed U.	" o <sup>6</sup>	Bonne - Amoco ; 7417-88 1-1-67 91955   29234 (.5.	"Bilbrey Fed." U.S."Bilbrey Fed."		''βılbrey-Fed." U.3.		u.s.		3.1.95 86145 31088	Axeres. To 9100 0/43 21 96 U.S	rin L
ļ	2 Pago Prod 1 Phillips 09 Luke Fed.	o² o³ Pago Prod.	Central Res. HBC(5/2) L6-6640 Texaco	Apache IniPhilips) Izsmil 86710 ((cu	ente fi Y faer (13) a Prod. (73)	Marale,Inc.  # 85933 TDI4630	Maralo, etal 4 · 1 · 95 83607 2609 Maralo,	Penwel 12 . 1 . 9789 909 6	9	<b>'</b>	90 Prod. 1 · 96 5 9 3 5 100 99	4 C
Ų	Joseph John John John John John John John Joh	Posp Frod.	Texaco   Phillips   Texaco   Gerting-St.     G	33	,	"Bilbrey-Fed." (). (Merit Ener.) to 15100' Philli	S 89607 26029	o'-, Dreu	Michael Fea 18.53 Fea		36 Pogo Prod fornánomk ut. Del. Disc.	<b>74.</b> ()
	Fed Tolling To	Original States	Mozel Oile fall Same Beg 346641346/43189 6742139 644	"Bilbrey-Fed." U.S.		Bilbrey-Fed." To 14990 (B) J.C. E, Frances Milis	Maralo 5.7.93 S.M.I. T.T. San- FamPri. ders etal	W. W. Ande J.C. E, Frances M	ille Com Bassina		ů,s. Ý Ý	AT 6 A060 IV-4: 220
	Pogo Prod.	Kaiser Francis, Kaiser Francis, Kaiser etal Francis 86710	Cent Res., (Centus) eral (Union)(eral) (Union)(eral) (Feb. Br. Circ. (Feb. Disc.	Cantral Atoka (Gern) Ras, Ci+65 Sibrey Fro etal (Aminoil) MB H,260 Union 86710	Unión 12-1-81 14491		10 10 150 reufus 10 16 16 16 16 16 16 16 16 16 16 16 16 16	91.724: 499.724: 5 597ta fe 'vates Energy (fet, etal 17056 5.1-91 120 92 64604 179 92   <65	Pogo Prod.	Varies Pet etc B2912	Yates Pet. et al 5:1:09   126 82	jeni jeni
	Aperiory And Aperiory And Aperiory And Aperior Aperior Option 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ampeo	Santa Fogo Prod. Fe Ener 4 · 1 · 2000 3 · 1 · 2005 V · 4616	14491 U.S. AMURE For Sonto Fe Ener. 9-1-20	Ener os os	Of fawe - St DA 8 335 - St DA 8 31- 93 \ Yates Pet. 2 1 2000 ⊕1 2 4585 4315	Penwell Ener. 3 . j . 2002 98190 90 92	Morelo, 2105 84005 23000	1 8:11:31 1 42:015 2 1	Yates Pet et 64603 126 87	77056	H.
	64505 U.  da.Nik Yajies Pet, etal	S.	260.00   Prod 4   2000	"Trumpeter- \$t." of p42 State Santa Fe Ener.	<u></u>	1	J.S. M.I. J.C. &, Frances Mills Fam. Pri.(S) Phillips	Maralo,	S. Philips		laralo _	32
	84890 47099	9 - 1 - 2006 97141 (F 45 00 V	Pogo Prod Pogo Prod   Pogo Pro	Maralo (L.R.Prench), 0 1 4084 1025 de Frances Maralo	PZ46_4 R.French	95952 W71-L70 Barr Honre-Ped , Maralo 13-1-97 68161 156400	Phillips 86147 9050 U.S.M.T. W.S.Frances Mills Frances Maralo 86147	Maralo, 9 1 93 56392	14332 Maralo, etal 110:193	O Marale In	sc. #3 10 32 Mil 12 68 bbis.	
	9 144 3 Pogo 5 100 9 28 94 5 20 90 90 90 90585 90 90 00533 NGS		GSTON RID	Marolo I. R. Prenchy  O 1-87 - Vision of the Control of the Contro	Marala Prio State	Phillips	hey-St	14 aralo, - 1 eralo, - 1 85936	PROHIBIT MARALO	(OPER.)	UNII	34 st.
ן	U. # 3 Pogo Prod. PET 905@8	. 45	U.S.  ZANC Yates Pet, et al.  Creary Fed.  17  Creary Fed.  86148  74KC*	Yates Pet.,et	PZAE		s.	U	ition-Fed.Unit"  S.   Inc.,etal	<sup>2</sup> 00 (М8	oition-Fed. Ut."  U. S.  QO Prod.  R Res., 1/2)	Ø Ø
ן	44 Sak Pogo Prod Livingston \$3990 Gidge \$3990 F7 Fed \$390 F0go Prod 928 94		E. LIVINGSTON RIDGE UNIT	V8-134 AKX 28 7 5wo 9nes	PHZ	Manager Evol 1	5 "Streta Pyod.	"Prohibition Burlington (Exacts)	_ 1		13	ж
	e E Livings	Pogo Frad	PSG (ClearyPe) (WO) Creary Self-Wrings (WO) Creary Self-Wrings (WG) Creary AKC Fed. (WG) (WG) (WG) (WG) (WG) (WG) (WG) (WG)	**************************************	-P179	to 15,119 2P212 Smala 02 P212 Lechuzo-And. P103	(Mercury Euch)  Company (Marcury Euch)  Company (Marcury Euch)  Marcury Euch  Marcury	1/4:0150 +7 4 ((arper) F159 (New Appole)	e 6 e 2 F200 I. Red Red Ganin Fed (Checker anin Fed Fed Fed (Fed Fed Fed Fed Fed Fed Fed Fed Fed Fed	J WBR MO Proo C W Trainer Gosyng-Philips- Fed 70 753 DIN 10 0-89 WG 2 W BB	Fed "   interest   1   1   1   1   1   1   1   1   1	R 5 0 E 130 105 0/4
- 11	Pro Proportion	Cities Servys A.R.Co.Ys	A.R.Co. /3 Getty '3 Cities Serv.	Gettu Oilly 3 Critis Serv. by Peg PAR Co. 3 (Ex	trete of rod. P44 xoni 058	P10 2	Pogo Prod. (Exxon)	C.W. IBurington Trainer (F. Crini 4 (Meridian) Checkerboor	Transcribert 1807 (1833   1825   17357 Burlington	mol 2 wg R	Penweti - 6	CCV P42
	CNG, V2 Page, V2 CNG, V2 - 19,94 C H James Ig - 27,94 F S I JA-94 IJ.C.F. Pago I Frances	7	pet. efoil yet swy months of the control of the con	to Marr Shate Culbertson Circuit Circuit Circuit	Prod Prod r-Fed, iy Disc	(J) H 7-19(1) (J) H 7-19(1) (F) C 7-1-16 (J-1) 2 E13692 E13693	` . <b>,</b> , , , , , , , , , , , , , , , , , ,	- 5+°°°°2	F210 0 (P/D)	Jackalop d Pogo Red Tonk Fed 05 (F Prince D	Samfrey River   Samfrey River   55, 500   TD 15390   TD 15390   TA 15390 	Buri
	Pogo Frances 9 26.94 April 90687 Fam Pril 100887 U	DIA 6-8-64	U.S. Morran	U <sub>s</sub> s "Cerca		Cercion Fed U S		F344	Pres;	•,	Z4 — Pesseo ez Fidi Del Compli Lchai) O. Permeli LC Permeli 153 Paga Fed	Trai 9 i v 1996
	Pogo 9. 7. 93 77059 45空 45空	Getty Oil 1/3 Cities Serv 1/3 A.R.Co. 1/3 Yat 25 Pet. et al	Santa Fe Ener.   Getty Oil 6 1 2006   A.R.Co 96856 390 90   Cities Servi/s Pet Etal	Getty Oil e3 pogr A.R.Co. (swo) 5937 Cities Serv. 79	7	Pogo 69376 20 03		Pago et 8	Pago Prode <sup>19A</sup>	Bant Spr. Disc.	05 9741 PVB) (Chevron) Pogo Prad 2379 914 **A'' F100 12	3. €
	<u>-</u>	(fo base Morrow)   	(fö base Marrow 	Pagwall Engs	nkFed.	P106 (20827)	Pigg Fisa	F530 •(B/R)	Culber teon Curber teon Culber teon TO 4917 DVA4-16-45	• 1	25 (3) 4 • F130 4 • F108	) <i>₹₁ቒ₄</i> o²
	U.  Pogo Pro	S. Sentu 500 4 Sentu 500 6 F. Engr. (00) 184891	U.S.	U.S.		PZOI OFTO PO		Red Tank- Fed TIA U	Covington-Fed"	(mg e 8 e 9	147	
1		7 (00) 84891 19000 19000 19000 19000 19001	V · 2443 Yeles for the "ALT" (⊕ <sup>2</sup> -gell best: e-gell	77060 45°° 4	) [	P84 1/2 Pri 7706	Pring Pring (NO) Pring	86150 Pogo Red Tank Fed TD5500	Pogo Fred P34			622
	Stecker 9 64	<u>18847</u>	32 "Lotus-St"	33 o <sup>5</sup> " Red Tank- Fed	•	Programme A Red Tank	Red Tank Fed.  Fed Does Prod 6 17003	Aswo Red Tonk-Fed."	5 L "Covin <b>aton</b> -Fed"	Sp Disc)	36 	, , , , , , , , , , , , , , , , , , ,
	Sonto 6	39.71 <i>de 2</i> (39.59de 7 e Emer	Store  #### *Usite #### / Iside	U.S.  Bogo Prod. Texas  Pogo Prod. Map	0 0	1900 29 () 1944 019 3-AFR Yates F	8. 1900 % A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	State allases. Nates		#414 4\#164 F101	F9 Yates	. 2
- [	33.77. g 6		5	330 92		328 Freida-F State	ZAFR S	(198162) 188162 1422	206	Yutes ( 6 0 10 81274	Pet etal 2 "ADC" (PETAL TIAL)	31014
	43 and 43FG to 4 we have	(Sento Fe Ener.) Plotinum Fed Bn. Sor. Disc P65	Lillie Yates 1 9 : 1 : 95   62223 	Strata f In good DM 3 140	70d 90-Fed.	5gnta Fe 12 · 1 · 3 85938 909	Ener: 95 R Kiel Jr 60 E 3724 1050 7 0614877	!	PES	<b>6</b> ,		عر رو ا

#### ADDITIONAL DATA FOR DOWNHOLE COMMINGLING REDCHECKER 14 FEDERAL WELL NO. 1

Burlington Resources Oil & Gas Company respectfully submits the following:

The estimated bottomhole pressures for the perforations in the Bone Spring for the above referenced well are calculated off the actual BHP for the Checkerboard 23 Federal well(s) no. 1, 2, & 3. As indicated on the application for the referenced Checkerboard wells, the original BHP is an average of 3900, and the current BHP today is approximately 2087. We anticipate the well to come in flowing but eventually will have to be put on artificial lift. The estimated gravity for the Delaware zone is +/- 41. Based off figures from the Bone Spring production in the # 1,2, & 3, we anticipate the Bone Spring perfs in this well to be approximately 20 bbls oil, 25 mcf, and 86 water. This would make the allocation factors for the downhole commingling of the Redchecker 14 Federal No. 1 to be as follows:

Delaware: 65% oil and 70% gas (based on average production of 37 oil, 90 mcf)

Bone Spring: 35% oil and 30% gas

We submit the production graph information for the Redchecker based on current Delaware production and proposed Bone Spring production. The referenced Checkerboard wells are tracking the same trend geologically as the Redchecker well so the production figures are comparative.