DHC 10/6/98

POGO PRODUCING COMPANY

2112

September 9, 1998

New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 Attention: Mr. David R. Catanach

RE: Southeast Red Tank Prospect <u>Lea County, New Mexico</u> Application for Administrative Approval for Downhole Commingling in the Red Tank 24 Federal No. 1 Well located 660' FSL and 1980' FWL Section 24, T-22-S, R-32-E Federal Oil and Gas Lease NM NM81633

CERTIFIED MAIL

SEP | 6 1998

Gentlemen:

Pogo Producing Company respectfully submits herewith its application for Administrative Approval for Downhole Commingling of the captioned well. Enclosed please find Form C-107-A with appropriate attachments.

If you have any questions, please contact the undersigned at (915) 685-8127.

Sincerely,

Hijabeth I. Moses

Elizabeth E. Moses Consulting Landman

Enclosure

cc: New Mexico Oil Conservation Division
Attn: District Supervisor
P.O. Box 1980
Hobbs, NM 88240

Bureau of Land Management P.O. Box 27115 Santa Fe, NM 87502-0115

DISTRICT I	State of Nev Energy, Minerals and Natura	Form C-107-A. New 3-12-96.	
Р U Вох 1980, Новье, NM 88241-1980			1
DISTRICT II	OIL CONSERVAT	APPROVAL PROCESS:	
811 South First St., Artesia, NM 88210-2835	2040 S. P. Santa Fe, New Mex		X Administrative Hearing
DISTRICT III			EXISTING WELLBORE.
1000 Rio Brazos Rd, Aztec, NM 87410-1693	APPLICATION FOR DOW	NHOLE COMMINGLING	X YES NO.
Pogo Producing Company	P.O. Box 103	40 Midland, T	x 79702-7340
Red Tank 24 Federal	Address 1 N, Sec	24, T-22-S, R-32-E	Lea
6390		ec - Twp - Rge	County
DGRID NO. 017891 Property Co	ode 13274 API NO. 30-025-3		Jnit Lease Types: (check 1 or more) , state , (and/or) Fee
The following facts are submitted in support of downhole commingling:	Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	RED TANK: DELAWARE WEST 51689		RED TANK: BONE SPRING 51683
2. Top and Bottom of Pay Section (Perforations)	7330' - 8566'		8860' - 86'
3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 300 psi	а.	a. 2500 psi SI
	b. (Original) 3218 psi	b.	b. 3637 psi
6. Oil Gravity (API) or Gas BTU Content	40.8		42.2
7. Producing or Shut-In?	PRODUCING		SHUT IN
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	NO		NO
	Date: 8/18/98 Rates: 3080, 358W,182MCF	Date: Rates:	Date: 2/5/96 Rates: 39BO, 145BW, 120MCF
	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	oii: Gas: 44% 60%	Oil: Gae: % %	oil: Gas: 56% 40%

9. 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?	X Yes	s No	,
If not, have all working, overriding, and royalty interests been notified by certified mail?	Yes	No	
Have all offset operators been given written notice of the proposed downhole commingling?	X	Yes	No

11. Will cross-flow occur? ____Yes X 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. ___Yes ___No (If No, attach explanation)

ORDER NO(S).

12. Are all produced fluids from all commingled zones compatible with each other? X Yes ___ No

- 13. Will the value of production be decreased by commingling? ____Yes X_No (If Yes, attach explanation)
- 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:
- 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.

SIGNATURE: //ale	Jack TITLE:	Div. Petr. Engr.	Mngr.	DATE:	9/10/98
TYPE OR PRINT NAME:	Mark Burkett	TELEPHONE NO.			

Submit to Appropriate District' Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT [P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artemia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

Operator

All Distances must be from the outer boundaries of the section

An Distances must be		_
PRODUCING CO.	Lease RED TANK "24" FEDERAL	Well No.

operator	POGO) PRODUC	ING CO.		RED TANK "24" FEDERAL			1		
Unit Letter	Section	1	Township	R	inge			,	County	
N		24	22 SO	NUTH		32 E	EAST	NMPM		LEA
Actual Footage Loc	ation o	r Weil:								· · · · · · · · · · · · · · · · · · ·
860 reet	t trom t	he SOL	TH time and		1980			feet from	the WES	T line
Ground Level Elev	·. P	roducing For			l				TNOC	Dedicated Acreage:
3755.9'	•	£	ONE SPRIN	GS	UNDES.	RED	IANK B	ONE SPR	INGS	40 Acres
	one les	se is dedicat	ed to the well.	outline each an	d identify	the own	ership th	ereof (both		ng interest and royalty). Idated by communitization,
Yes if answer is no	" list o	No No		"yes" type of c ions which have			solidated	I. (Use reve	rse side of	
this form necessary No allowable with otherwise) or un	ill be s	-								nitization, forced-pooling.
										OR CERTIFICATION
								11	[here contained here	by certify the tre information in is true and complete to the owledge and beklef.
		i I			1				Signature .	ruld. arist
									Printed Nam Richard	L. Wright
		·+			+ 				Position Divisio	n Operations Mgr.
									Company POGO PR	ODUCING COMPANY
		1			1				Octob Octob	per 14, 1993
									SURVEY	OR CERTIFICATION
								a 3 6	n this plat u atual surveys upervison, a	y that the well location shown has plotted from field notes of made by me or under my ud that the same is true and he best of my knowledge and
		1			1				Date Survey DECE	ed MBER 23, 1992
1	980'—	3753.3'			+ 				Signature Professional GARAN CONTRACTOR STUTICATO-N	ALTONALO LEISON J239
330 660	990 1:	320 1650 1	980 2310 2640	2000	1500	1000	500	0	92	GARY 1. JONES, 1977 2-11-1973

Submit to Appropriate District Office State Lease - 4 copies Fae Lease - 3 copies State of New Mexico

Eners, Minerals and Natural Resources Department

Form C-102 Revised 1-1-0

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1950, Bobbs, NM 68240

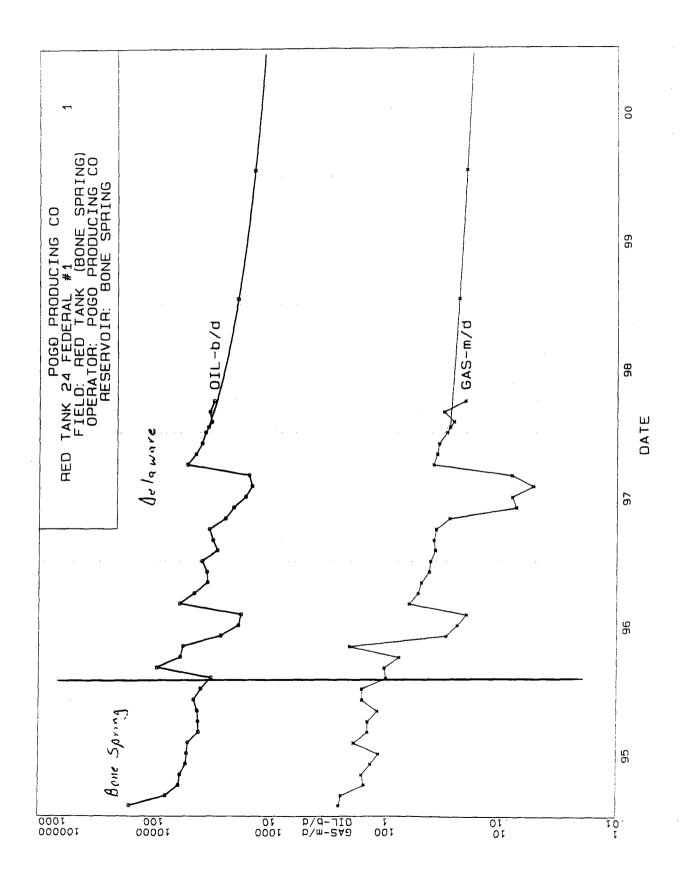
DISTRICT III 1000 Rio Brazos Ed., Astec. NM 87410

DISTRICT II P.O. Drawer DD. Artemia, NM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	POGO PRODU	JCING CO.	Lease RED TAN	IK "24" FEDERA	Tell No.
Unit Latter	Section	Township	Range		County
N	24	22 SOUTH	32 E	AST NMPM	LEA
	Location of Well:				
<u> </u>		DUTH line and	1980	feet from	the WEST line
Ground Level E			Pool		Dedicated Acreage:
3756.2	2' Delawa	ro	West Red T	ank Delaware	40 Acres
1. Outline the			red pencil or bachure mark		
	· · · · · · · · · · · · · · · · · · ·	,,	··· /···	•	
2. If more th	an one lease is dedi	cated to the well, outline	each and identify the owne	rship thereof (both	as to working interest and royaity).
	an one lease of diffe	-	ied to the well, have the in	terest of all owners	been consolidated by communitization.
T Yes		If answer is "yes" ty	rps of consolidation		
if anomation in	"no" list of owners a		ich have actually been con	solidated (lise per	re side of
this form nec		ma datt descriptions #1			
No allowable	will be assigned t			• •	itization, unitization, forced-pooling.
otherwise) or	until a non-stande	ard unit, climinating suc	ch interest, has been appr	oved by the Divisi	on.
·					OPERATOR CERTIFICATION
	1		Í		I hereby certify the the information
	ł		ł		contained herein is true and complete to the
	1		I I		bast of my knowledge and bellef.
			1		
	1		1		Signature
				{ }	Jame Homes
1	1		1		Printed Name
					Barrett L. Smith
	1		1		Position
1	1				Division Operations Eng
	1		}		Company
}			1		Pogo Producing Company
	1		1		Date 8/19/98
	i i		1		0/19/90
	1		1		SURVEYOR CERTIFICATION
}					
1	i		i		I hereby certify that the well location shown on this plat was plotted from field notes of
	1		l J		on this plat was plotted from freed notes of actual surveys made by me or under my
	\$ 1		1		supervison, and that the same is true and
}				1 1	correct to the best of my knowledge and
	}		1		belief.
	1	1	1		Date Surveyed
1	·				NOVEMBER 5, 1992
	1				Signature & Seal of
					Professional Surveyor
			1		
1	3758.4	3754.9'	1		
			1		
	-1980'	→ ⊙	1		N. O.Kheo
	1 1761 7		i t	2	join × 10
	3754.7	0 3757.2'			/11-1 N
	l	9			Cartificate No. JOHN WJ WESTE 676
			<u>I</u>		RONALD LEIDSON, 3239
330 860	900 1220 1820	1000 0010 0010			CANY L JONES 7877
000		1980 2310 2840	2000 1500 1000	500 0	92-57-4683



.

.

	"Bilbrey-Fed." U.S 99607	+ 70.15 min	5138	5199		
33	Merit Ener) Louin to ISION Phillips Ind Courtury	Dreutus Corp Harrison 4 14 AR	36 Persofroul Description	Pago had 7		
Bilbrey-Fed.	512 06710 1.20.5 / Bilbrey Fed." Meralo To 1990 00 U.S.M.I. T.T. San	W W. Anderson, eta!		A IT - 4 - Wifes Ter and Inap frad	5102 (mm	
U.S.	ICE, Frances Mills Fam Pret dans pro	J.C.E.Frances Mills Fam. Prisho		Webe a diama y strate y diama y	and always the set of	
(Amingal) (Genal) (Amingal) (Genal) (Amingal) (Genal) (Amingal) (Genal) (Amingal) (Genal) (Amingal) (Genal) (Amingal) (Genal) (Amingal) (Gen	Uniolian (1997) Uniolian (1997) 12-1-81 - 11-18 - 2000 144-91 - 1-18	17056 54604 01547 12000	Yores Per, erol + mesoi	Paga Irod 1.37 Amridon V.4034 Dager Bon = (amri 5.57 Junia - 1.1.10	Meridion + 235	Amochie
U.S JEFFranses	51070026 11715 48	KGS 1 31 2018	82912 4197	5153 5153 515 Pile MB 11 100	Store war	
ta Fe Ener. 19-1-2006 97140 4000 3113 U.5213	hates but Al Penwell Ener	10005 21005 21000 21000	Yates Opt. etal Santa Fe Ener. 64601 ; 9 1 43 166 27 77056	1. 2007 V 5020 175 99	Emple: (p' 5) (h'-bass -) 5) (h'-bass -) 5) (h'-bass -) 5) (h'-bass -) 6) (h'-bass -) 7) (h'-bas	Hier tosio
mpeter-st." **	JCE, Frances JCE, Frances Mills Fam Prils		erals 120 20 120 20 120 120 120 120 120 120 120 120 120 1	State	Dagger Vate S. Lake St. Stare St. Ores	1243
Santa Fe Ener. 77051	(D. Pietenpol, etal) Philling 55552 9647 9050 WTH-LTD VC From Prices Milling From Prices	Moralo. Phillips tetel to:: 93 HBP 56746	Maraio inc.etai 85937	H 144, Pogu Prod. 4 1.2000 V 4617	Ar Mer aug Ar Mer Ar Mer aug Ar Mer aug	S i
CLR French,	1 1 3 97 Maralo	Marato, etal Maroto. 8 : 93 : etal 36 : 97 : (0: 1 3 :		™ ¹⁶²⁰⁰ 5127	6 7 8 93 95244 18092	Duo Or g Husser fee Tosoze Das 23 40
C F Prontes Margin Pront	Marato = 10Marato = 10Marato = 10Marato = 10Free - 10Marato = 10Marato		NON FED UNIT	Cobot Cars. However ast State TUIS 227	B	
	Philips	*5736 MARAL	(OPER.)	10439- 1046-21 62	Chevron	
Phillips Wirrew VA 440 - Fa 913.44 23240 - Wirre Swam-Ford - State 1	P187 U.S	"Prohibitian-Fed. Unit" U_S	Prahabition-Fed Ut "	© × State 18154 - *	24003 (S	
Vates Pet.,eta) VB-134 'Axx'	Strata Prod. 108754 27805 3 gil sec.	Maralo, Inc.,etal 85937	Cogo Prod. (M8R Res.,1/2) 58940	Porto Prod. 3412	Pogo ' Pogo Prod (Cnevron) 6 · 1 · 2004 93215 24663 · 25 00	Ph µr E
_8 7 /5w0 Φρίθ6 3 Γεία Φ	1 Strate • Auseno-Fed Proc 2	Prahibition Fed "	4649	88° / 2007	4270 17 5073	Yates Pr 12 - L - 4 - 42 5 - 135 7
16 S PISE	Marcury Expl., 'Strato Prod. et al Khercury East to 15,119' Connort, Fod	Burlington 14 (ExxMt) 17/Aloiso 17/Aloiso 7 4 6	JWBR March	Person and man har bar	4270 17 5073	** Ilips Tafet #8# 1727 30 (1932 1V.4255 1352
"Kiwi-St." PI99	170 4 30000	Tank Fed. Sed	Cw Trainer (vores cho)	O'A 12 3 CI "NBR "	"FodEBR" U.S.,M.	Yares Pet, etal 12 / 30 V 4255 / 135 71
Pioz - 5 Show - 220 Show - 220 Itu Jili 3 - 5 Stroto - 5 Serve, 43 - 10 - 10 - 10	(El kon) , Pogo Prod.	Page right U S (ma) C.W Isungton Transver (R.C.W Isungton Transver	US THE Prince	Sinche C W Trainer) + Meridian C W Trainer) + 2 + 2000		SKHL
s Pet. 77058	Strate Prod (ExxOri) 17058 4 81272	(Meridian) Marduan Checkersourd-Fed Sourt-Ed Checkersourd-Fed Sourt-Ed	Burlington Penwell -	Paz 0 - 196 2 12000 Paz 1 - 196 2 12000 V 4580 - 1965 2 5 2 - 1965 2	Bevis - Lapra 78194 Contract - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2	932 125 Texaco
Son 21 Chicany Orac	€ 4978	60 2000 1700 8 2000 100 P300 21979 10 Burington Transform (2019) 2000	9/200 3 (Senting Page) Senting Page 3 (Senting Page) Senting Page 3 (Senting Page) Senting Page) Se	Ma	USIM IE 20	
	E:3692 f073i3 0A5-10-67 P22	Burington Traner 	of (F. Prace, IX etai) of to	Meridian TOCO, LLC • 1996 • F70	Gulf 24683 Mascho frete fri 1/2 (10)	Tex
U,S "Cercion-Fed	Cercion Fed US "Prize-Fed."	6-314 - 7283 - 7	Penweil Bissage Cheekers Checkers- Stage Cheekers Checkers- Reffonk- 2 5 5 67 49870	Trainer Stare History	(12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ť
01 03 Pogo 10 P Co 15000 PSO	69376 (Exxon) 8/277 69376 Paga Prad. 65 2 0 03 1 64978 7273	10-A	(aun) -777	MitchellEn. Pooo Prod (Col-Monetal) v-3526	Seaboard Di Cioya 12 i 2004 biad e se 94100 biad e se	Veres 11 67997 56 9 686
s Servis Pet.etal	• 4 • • • • • • • • • • • • • • • • • •	P360	(11 Mil.) Base Sec. 046c. 2379 014 6 A F100 12	Pogo Politano 2	70 <u>• •</u>	KOS
	106 (20927 (Exxon)	4949 26 Culbertson 70 4977 Din4:16:45	4953 25	5188 • ²	29 (\$), ***	25
•8 Red TankFid. • <u>•</u> • 9	6 PIGS PIGS Pige Prod 6 PIGS Pige Prod Ange Prod 5 Estion 5 Colored 277 Ect 277 Ect 2	5 kan 4953	5 PV3	5135	Varies Pert Torona Antonia - Fana To VII as	ŝ
	(Frd () ~ ()U.S	Red Tank- P Covington - Fed Fed T/A U.S 21A	P230US	Red Tank St " Store	U. S	U. 3
Pogo Prod. 9 - 1 - 93 77060 4500 4	77060 (way) 9779 77060 (way) 9779	1 Pogo Prod 25/4 86150 Pogo Prod 23/9 4958 2379	Stroto V 1212-on pop (Stroto Pop (Strot	P228 Pago Prod V-3527	PenweitEner. 2 / 2001 V 2431	
4988	15rg3 P100 • 4 F133	Age Tornk Fed 4953	Boolines Ridge (H) 10300 / 61 TD (6,900) 2 0/46 4 61 D/4 8 24 64) ●3 2 ●5 P/6 8 60 1 F50 F246 Del 0 f51.)	⁸ ² 51 36	? 2 8 13	
o ⁵	34 1988		10,000	31 F R ADA	32	Pogo Prod. 2 1 2006
Red Tunk- Fed. " U.S.	9090 7001 "Red Tank Fed." (0000 0000 1 1001 Red Tank Fed." (011001 90903 90903	"Red Tonk - Fed" "Covination Fed"	Shell St. I MuleDeer St	Red Tonk-St 31"	5 C Herburg theri 5 7 7 7 7 7 7 7 7 7 7 7 7 7	23:25 5 1 9
Prod Texaco			31870 · · ·	• F207 State USE 2000 Hall Hall A		Source Alastate Nor Pennell Sper
1007 HB5052	5014 A 1 93	5014 vates Pet., etal Vates Pat.) Vates Pat.)	o Peterol Vitos Pok etal 2 "Ano"		Seaboard 311 489 2004 20073 2778	9 714 600 30 Yours Fred
4 5157.20 5157.20		Vinte Act) 180152 (19252) 2 Torrison () 2 Torrison () 2 Torrison ()	10 61274 APY " P84 T/A2	3482 (ma)		D 5% 5 7 0 7
5243	5056 Santa Fe Ener. 12 1 95 8 416 Ur 85738 Fea 9000 E 312	P25	0,	(Morrow Disc TO Kete) By Bit 949 By Ster Crit By Ster Crit		CNG Prod. 9 - 1 - 96 86932 40 99
	"D 5 C " Dei 4 4" Dei	State	Thyme-Fea of Corranger all U.So State	31524 7 Terms Cr 5167 Fee US, M.1 12 Fer Starte(S)	US W/ Store(S)	US M' Statels
Penwell Ener 1 98192 160 ₩	Strata Prod	Strata Pred. Yates Pet.etal 85940 73662	Burlington J Yatesen		Burlington Res 7777 Del 88170 HBP	PenwellEner. 5 - 1 - 2005
Strata Prod	85939 Exxon	- ()	rea prz	3482 i 3482	Texas Crude	96840
Strata Prod Procurso 1995 Mail 1756	IO Storp. Fed Top. Jostop. Fed Tostop DIATTOS	Strata Uraca Fed Strata Prod	Burlington 1.3651	7 1	105300 - Norves Vera Fed Fed Dial 103 777 Pris Penweil 1777 Pris Frei	9

Pogo Producing Company, OGRID No. 017891 Application for Administrative Approval for Downhole Commingling in the <u>Red Tank 24 Federal No. 1 Well (Property Code 13274)</u> 660' FSL and 1980' FWL, Section 24, T-22-S, R-32-E Lea County, New Mexico

Offset Operator Notification:

÷ . . .

Burlington Resources Oil & Gas Company P.O. Box 51810 Midland, TX 79710-1810

Penwell Energy, Inc. 600 N. Marienfeld, Suite 1100 Midland, TX 79701