	19/07	SUSPEN	SE	W Sould- ENGINEER	11 21 OF	PLC	D PKURO	73252	7978
				ABO	VE THIS LINE FOR DIVISION USE				
			NEW MF		DNSERVATION		A THE STATE		
				- Enginee	ring Bureau -				
			1220 :	South St. Francis	Drive, Santa Fe, N	M 87505	1912 - 0314		
			ADMIN	ISTRATIV	E APPLICA	TION CH	ECKLIST		
TI	HIS CHECKL	LIST IS M			TIVE APPLICATIONS FOR			AND REGUL	ATIONS
Appli	[DH	lon-Sta C-Dowr [PC-Po	ndard Loca nhole Com ol Commin [WFX-Wate [SWD]	mingling] [CTE ggling] [OLS - (erflood Expansio -Salt Water Disp	Standard Proration -Lease Comming Off-Lease Storage n] [PMX-Pressu osal] [IPI-Inject ry Certification]	ling] [PLC-P] [OLM-Off-L ire Maintenanc ion Pressure II	ool/Lease Com lease Measurer le Expansion] hcrease]	mingling] nent]	_
[1]	ТҮРЕ	OF AF [A]	Location		se Which Apply fo Simultaneous Dec SD				
		Check [B]		for [B] or [C] gling - Storage - 1 C C CTB	Measurement PLC PC	OLS] OLM	100	, · · · «4,
		[C]	Injection		sure Increase - En] SWD 🔲 IPI		covery PPR	2007 NOV 19	RECE
		[D]	Other: S	pecify				Ċ)	
[2]	NOTII	FICAT			neck Those Which r Overriding Roy	** * *		Pm 3	IVED
		[B]	Offs	set Operators, Lea	seholders or Surfa	ice Owner		5	
		[C]	🗌 Арр	lication is One W	hich Requires Pub	olished Legal N	otice		u . 494 . '
		[D]			Concurrent Appr ent - Commissioner of Pul				
		[E]	For	all of the above, I	Proof of Notification	on or Publicatio	on is Attached, a	and/or,	
		[F]	🗌 Wai	vers are Attached					

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE [3] **OF APPLICATION INDICATED ABOVE.**

CERTIFICATION: I hereby certify that the information submitted with this application for administrative [4] approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by individual with managerial and/or supervisory capacity.

Ann Ritchie Print or Type Name

Signature

Title

<u>10-25-07</u> Date

annritchie@wtor.net	
e-mail Address	

District I
1625 N. French Drive, Hobbs, NM 88240
District II
1301 W. Grand Ave, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr, Santa Fe, NM
87505

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 S. St Francis Drive Santa Fe, New Mexico 87505

Submit the original application to the Santa Fe office with one copy to the appropriate District Office.

APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)

OPERATOR NAME:	Pogo Producing (San Juan) Company
OPERATOR ADDRESS:	P.O. Box 10340 Midland, Texas 79702

APPLICATION TYPE:

LEASE TYPE:

🗖 Pool Commingling 👘 Lease Commingling 👘 Pool and Lease Commingling 👘 Off-Lease Storage and Measurement (Only if not Surface Commingled)

Fee □ State Federal

Is this an Amendment to existing Order? Yes	■ No	If "Yes", please include the appropriate Order No.
Have the Bureau of Land Management (BLM) and	l State L	and office (SLO) been notified in writing of the proposed commingling
■ Yes □ No BLM has been notified. Proposed	comminf	gled area is comprised of Federal and Fee lands.

		OL COMMINGLING ts with the following in			
(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes (Monthly)
Fulcher Kutz-Pictured Cliffs Gas (77200)	983	983		Value of production	4,135 MCF
Basin-Fruitland Coal Gas (71629)	1,053	-		will not be decreased	297 MCF
		_		by commingling	
(2) Are any wells producing at top allowa	bles? 🗖 Yes 🔳 No				
(3) Has all interest owners been notified b	by certified mail of the pr	oposed commingling?	🖿 Yes 🖂 No).	
(4) Measurement type: Metering	Other (Specify)				

(5) Will commingling decrease the value of production? 🔲 Yes 🔳 No If "yes", describe why commingling should be approved

🗆 Yes 🗖 No

(B) LEASE COMMINGLING Please attach sheets with the following information

(1) Pool	Name	and	Code.	
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(2) Is all production from same source of supply? □ Yes □ No

(3) Has all interest owners been notified by certified mail of the proposed commingling?

(4) Measurement type:
Metering
Other (Specify)

(C) POOL and LEASE COMMINGLING Please attach sheets with the following information

Complete Sections A and E. (1)

(D) OFF-LEASE STORAGE and MEASUREMENT Please attached sheets with the following information

Is all production from same source of supply? 🗆 Yes 🗖 No

(1) Include proof of notice to all interest owners. (2)

(E) ADDITIONAL	INFORMATION (for all application)	tion types)
Please attac	ch sheets with the following information	n
(1) A schematic diagram of facility, including legal locatio	on. Attached	
(2) A plat with lease boundaries showing all well and facil	ity locations. Include lease numbers if Federa	al or State lands are involved. Attached
(3) Lease Names, Lease and Well Numbers, and API Num	bers. Attached	
0 B		
I hereby certify that the information above is frug and comple	ete to the best of my knowledge and belief.	
SIGNATURE: Min yuchw	TITLE: Regulatory Agent	DATE: 1025-07
TYPE OR PRINT NAME: <u>Ann Ritchie</u>	TELEPHONE NO.: <u>(4.</u>	32) 684-6381
E-MAIL ADDRESS: ann.ritchie@wtor.net		

New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 Attn: Mr. Mark E. Fesmire, P.E., Director

U.S. Bureau of Land Management 1235 La Plata Highway, Suite A Farmington, New Mexico 87401-8731 Attn: Mr. Jim Lovato

Re: Application for Pool/Lease Surface Commingling Pogo Producing (San Juan) Company Tiger 4 CDP Gas Gathering System San Juan County, New Mexico

Dear Sir:

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Pogo Producing (San Juan) Company ("Pogo") hereby requests approval to surface commingle the gas production from two existing gas wells located within a proposed commingled area comprising the SE/4 of Section 33, Township 30 North, Range 13 West, NMPM, and the E/2 of Section 4, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. One of the wells is a single completion in the Fulcher Kutz-Pictured Cliffs Gas Pool (77200) and the other well is a single completion in the Basin-Fruitland Coal Gas Pool (71629).

Pogo further seeks approval to add wells within the commingled area that may be drilled in the future and completed in either the Basin-Fruitland Coal Gas Pool or the Fulcher Kutz-Pictured Cliffs Gas Pool without having to provide additional notice to the interest owners within the commingled area, and without having to amend the commingling order. Pogo will advise the interest owners that are being provided notice of this application that it is requesting this provision be incorporated in the commingling order.

The proposed surface commingling will allow Pogo to utilize a single compressor at the central delivery point, resulting in the reduction of operating costs and extending the economic life of the wells. The resulting increase in the ultimate recovery of gas from these wells will benefit all interest owners in the wells. The proposed surface commingling is also necessary due to topography and the close proximity of these wells to populated areas, and will reduce the environmental impact on these sensitive areas.

Due to the diversity of ownership between the commingled wells, each well will be equipped with a continuously recording allocation meter. Production will be allocated Pogo Producing (San Juan) Company Tiger 4 CDP Gas Gathering System San Juan County, New Mexico Page 2

to each of the wells in accordance with the following procedure: The production allocated to each well will be the integrated volume from the CDP gas sales meter, less the sum of the other allocation meters, plus any lease use gas. Lease use gas is estimated to be approximately 2.5 MCF gas per day for those wells equipped with a pumping unit and a separator. In the event the sum of the allocation meters does not equal the integrated volume of the CDP gas sales meter, the gas production from each well will be calculated using the volume its allocation meter indicates, divided by the sum of all the allocation meters. This percentage will then be multiplied times the integrated volume of the CDP gas sales meter, plus lease use gas. The proposed well metering system and method of allocation will protect the correlative rights of all interest owners within the commingled area. Compressor use gas will be allocated ratably to each of the wells.

Pursuant to the requirements of Division Rule 19.15.5.303(B)(4)(b), Enterprise Field Services (or the current operator of the gas sales meter) will calibrate the central delivery point gas sales meter at least quarterly at current production levels. Pogo will operate all allocation meters and will calibrate quarterly all allocation meters that measure more than 100 MCF of gas per day, and will calibrate semi-annually all allocation meters that measure less than 100 MCF of gas per day. All liquids, (oil, condensate and water) will be separated, stored, measured and sold at each individual well. Except for small amounts of water that may drop out of the commingled gas stream at the central processing facility, no commingling of liquids will occur.

The gas gathering system will not degrade the mechanical integrity of the wells or the CDP facility.

It is anticipated that the purging of natural gas and condensed water vapor from the gas gathering lines will occur infrequently. Any lost gas due to purging the system will be allocated ratably to each of the wells.

Attachment No. 1 is a table showing the wells proposed to be surface commingled. Pogo has also included, among other things, each well's API Number, well location, producing formation, and the acreage that is currently dedicated to the well.

Attachment No. 2 shows the current (June, 2007) producing rates for each of the wells to be commingled. The combined monthly production from the wells to be commingled is 4,432 MCF. Of that total, 297 MCF is from the Basin-Fruitland Coal Gas Pool and 4,135 MCF is from the Fulcher Kutz-Pictured Cliffs Gas Pool.

Attachment No. 3 is a map showing the location of the wells and the associated pipelines within the proposed Tiger 4 CDP Gas Gathering System. The central delivery point and Enterprise Field Services gas sales meter is located within the SE/4 SE/4 of Section 33, Township 30 North, Range 13 West, NMPM.

Pogo Producing (San Juan) Company Tiger 4 CDP Gas Gathering System San Juan County, New Mexico Page 3

Attachment No. 4 is a map that identifies all wells and leases within the proposed commingled area. As shown on the map, there are two separate Federal leases (Federal Leases No. NM-078643-A and NM-078214), and several fee leases within the commingled area.

Attachment No. 5 is a schematic diagram of the commingled facility showing the legal location, tanks, pipes, sales meters, and all other associated equipment. All equipment used in selling, storing and measuring combined production will meet the Onshore Oil & Gas Orders No. 3, Site Security; No. 4, Oil Measurement; and No. 5, Gas Measurement. None of the wells are Navajo allotted/royalty wells.

The natural gas from the pools is believed to be compatible and to date Pogo has not observed any compatibility problems. The BTU content for each of the respective gas pools is very similar, and for that reason, the value of the commingled production will not be less than the value of the individual gas streams. A representative gas analysis for the Fruitland Coal and Pictured Cliffs formations are shown, respectively, as Attachments No. 6, and 7.

A notification letter (copy attached) and a copy of the application have been sent to all parties owning an interest within the proposed commingled area. In addition, enclosed is a list of the parties to which notice has been provided.

In summary, Pogo believes that the proposed surface commingling is in the best interest of conservation, prevention of waste and protection of correlative rights, and that the application should be approved.

Pogo has included with this application, a draft pool/lease commingling order that summarizes the pertinent details.

If additional information is required, please contact me at (432) 684-6381.

Yours Truly,

Ann E. Ritchie, Regulatory Agent Pogo Producing (San Juan) Company P.O. Box 10340 Midland, Texas 79702 (432) 684-6381 (432) 682-1458-Fax ann.ritchie@wtor.net

cc: Cathy Wright, Pogo Producing (San Juan) Company-Midland, Texas New Mexico Oil Conservation Division, 1000 Rio Brazos Rd. Aztec, NM 87410

Pogo Producing (San Juan) Company Tiger 4 CDP Gas Gathering System

Dedicated Acreage	E/2 Section 4 SE/4 Section 33
Lease Number	NMSF-078643-A E/2 Section 4 NMSF-078214 Section 33
Lease Latitude Longitude Type	36.76075 -108.2073 Fed N 36.76419 -108.20378 Fed N
Latitude	36.76075 36.76419
Current Completion	Basin-Fruittand Coal Gas Pool Fulcher Kutz-Pictured Cliffs Gas Pool
Well Location	735' FNL & 1705' FEL 543' FSL & 685' FEL
Range	13W 13W
Twn.	29N 30N
Unit Letter Section Twn. Range	в 33 4
API Number	30-045-30814 30-045-29521
Current Operator	Pogo Producing (San Juan) Company 30-045-30814 Pogo Producing (San Juan) Company 30-045-29521
Well Name & Number	Farmington No. 2 Tiger No. 4

ATTACHMENT 1

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Pogo Producing (San Juan) Company Tiger 4 CDP Gas Gathering System

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and a set of the set of		(June 2007)
Tiger No. 4	Fulcher Kutz-Pictured Cliffs Gas Pool	4,135 MCF
Farmington No. 2	Basin-Fruitland Coal Gas Pool	297 MCF

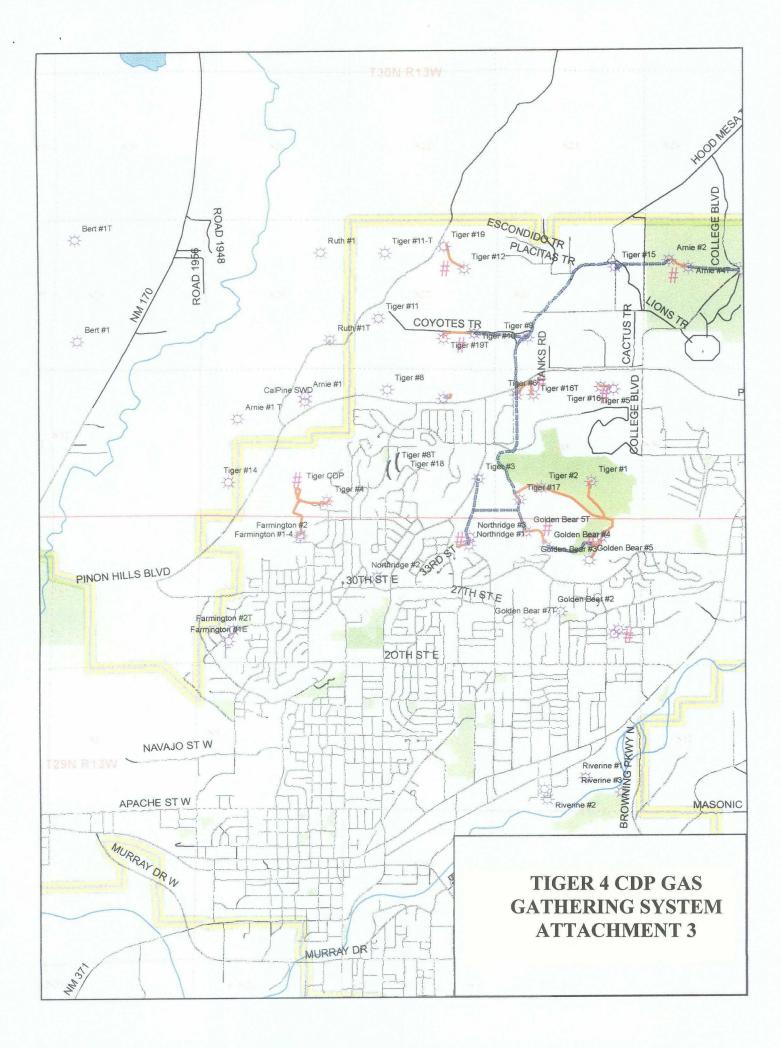
Total Production by Pool: (June, 2007):

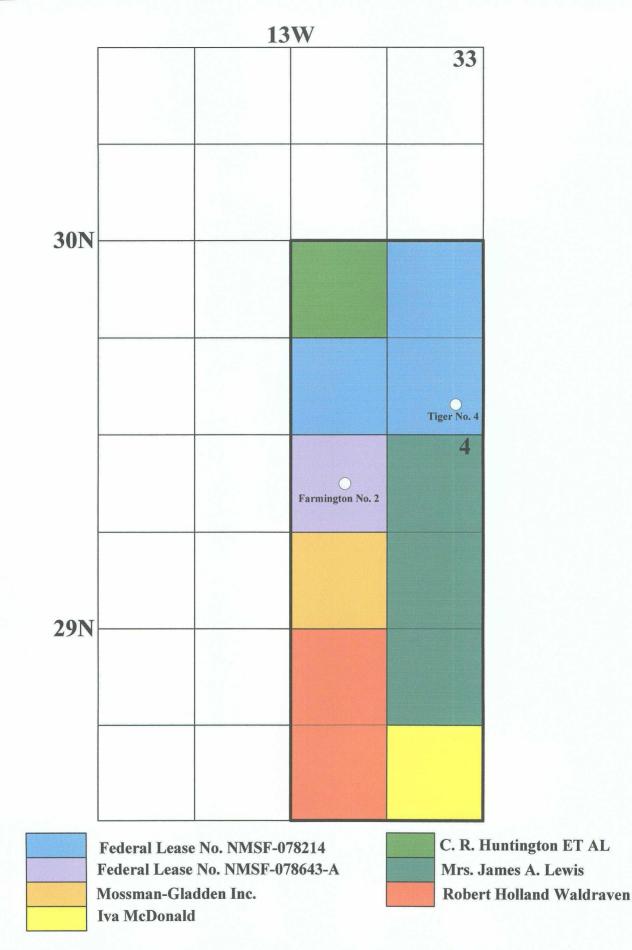
Basin-Fruitland Coal Gas Pool297 MCFFulcher Kutz-Pictured Cliffs Gas Pool4,135 MCF

Total:

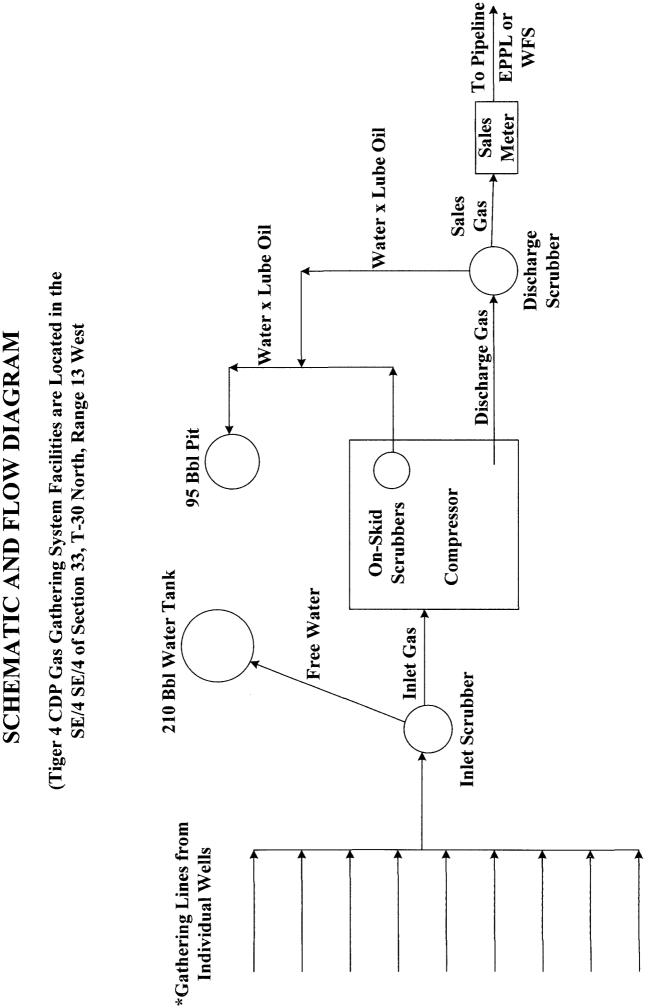
4,432 MCF

Attachment 2





Pogo Producing (San Juan) Company Tiger 4 CDP Gas Gathering System ATTACHMENT 4



POGO PRODUCING (SAN JUAN) COMPANY

TYPICAL SAN JUAN BASIN CDP

*Allocation Meters at Each Wellsite

ATTACHMENT 5



2030 AFTON PLACE FARMINGTON, N.M. 87401 (505) 325-6622

ANALYSIS NO. PC270023 CUST. NO. 62780 - 10480

WELL/LEASE INFORMATION

CUSTOMER NAME WELL NAME	POGO PRODUCTION SAN JUAN FEDERAL 1-T		SOURCE PRESSURE	WELLHEAD CASING 48 PSI G
COUNTY/ STATE	SAN JUAN	NM	SAMPLE TEMP	N/A DEG.F
LOCATION			WELL FLOWING	Y
FIELD			DATE SAMPLED	03/14/2007
FORMATION	FRUITLAND COAL		SAMPLED BY	JAMES MCGAHA
CUST.STN.NO.	202A357095		FOREMAN/ENGR.	
	T8409			

REMARKS

		ANALYSIS		
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.159	, 0.0000	0.00	0.0015
CO2	1.272	0.0000	0.00	0.0193
METHANE	96.120	0.0000	973.02	0.5325
ETHANE	1.415	0.3782	25.10	0.0147
PROPANE	0.593	0.1633	14.96	0.0090
I-BUTANE	0.100	0.0327	3.26	0.0020
N-BUTANE	0.140	0.0441	4.58	0.0028
I-PENTANE	0.048	0.0176	1.92	0.0012
N-PENTANE	0.035	0.0127	1.41	0.0009
HEXANE PLUS	0.118	0.0519	6.07	0.0038
TOTAL	100.000	0.7005	1,030.32	0.5877

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14,730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z)	1.0020
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,032.6
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,015.5
REAL SPECIFIC GRAVITY		0.5888

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,027.0	CYLINDER #	7005
DRY BTU @ 14.696	1,030.2	CYLINDER PRESSURE	
DRY BTU @ 14.730 DRY BTU @ 15.025	1,032.6 1,053.3	DATE RUN ANALYSIS RUN BY	68 PSIG 03/14/2007 BRANDY ROBERTS

ATTACHMENT 6

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2030 AFTON PLACE FARMINGTON, N.M. 87401 (505) 325-6622

ANALYSIS NO. CUST. NO. PC260024 62780 - 10490

WELL/LEASE INFORMATION

CUSTOMER NAME	POGO PRODUCTION		SOURCE		
WELL NAME	ARNIE 1 (PC)		PRESSURE	21	PSI G
COUNTY/ STATE	SAN JUAN	NM	SAMPLE TEMP	65	DEG.F
LOCATION			WELL FLOWING	Y	
FIELD			DATE SAMPLED	6/13/	2006
FORMATION	PICTURED CLIFFS		SAMPLED BY		
CUST.STN.NO.			FOREMAN/ENGR.		

REMARKS

ANALYSIS				
	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	4.343	0.0000	0.00	0.0420
CO2	4.821	0.0000-	0.00	0.0733
METHANE	87.101	0.0000	881.72	0.4825
ETHANE	2.413	0.6450	42.80	0.0251
PROPANE	0.886	0.2440	22.35	0.0135
I-BUTANE	0.235	0.0769	7.66	0.0047
N-BUTANE	0.108	0.0340	3.53	0.0022
I-PENTANE	0.050	0.0183	2.01	0.0012
N-PENTANE	0.010	0.0036	0.40	0.0002
HEXANE PLUS	0.033	0.0145	1.70	0.0011
TOTAL	100.000	1.0363	962.17	0.6458

*@ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z)	1.0020
BTU/CU.FT (DRY) CORRECTED FOR (1/Z)	964.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z)	948.4
REAL SPECIFIC GRAVITY	0.6470

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.730 964.3 DATE RUN 6/13/2006	PSIG 06 II MONTOYA
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ATTACHMENT 7

Pogo Producing (San Juan) Company P.O. Box 10340 Midland, Texas 79702

Contact Party: Ms. Ann E. Ritchie Regulatory Agent Phone (432) 684-6381

 Re: Form C-107-B (Application for Surface Commingling) Tiger 4 CDP Gas Gathering System
 SE/4 of Section 33, T-30 North, R-13 West,
 E/2 of Section 4, T-29 North, R-13 West,
 San Juan County, New Mexico

TO ALL INTEREST OWNERS (LIST ATTACHED)

Enclosed please find a copy of Form C-107-B that has been filed with the New Mexico Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. As an interest owner in the wells to be surface commingled, you are being provided a copy of this application pursuant to Division Rule No. 19.15.5.303(B)(4)(d). Any objection to the application must be filed with the Oil Conservation Division at the above address, within 20 days. If you have questions concerning this application, please contact me at (432) 684-6381.

Sincerely,

Ann E. Ritchie Regulatory Agent