

DATE IN 11/19/07	SUSPENSE	ENGINEER W Jones	LOGGED IN 11/20/07	TYPE PLC	APP NO. PKUR0732448375
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☒ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

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

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative 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 an individual with managerial and/or supervisory capacity.

Ann Ritchie
 Print or Type Name

Signature

Regulatory Agent 10-25-07
 Title Date

annritchie@wtor.net
 e-mail Address

RECEIVED
 2007 NOV 19 PM 3 52

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

Form C-107-B
Revised June 10, 2003

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:

☐ Pool Commingling ☐ Lease Commingling ☒ **Pool and Lease Commingling** ☐ Off-Lease Storage and Measurement (Only if not Surface Commingled)

LEASE TYPE: ☒ **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 State Land office (SLO) been notified in writing of the proposed commingling
☒ Yes ☐ No **BLM has been notified. Proposed commingled area is comprised of Federal and Fee lands.**

(A) POOL COMMINGLING

Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes (Monthly)
Basin-Fruitland Coal Gas Pool (71629)	1,053	1,000		Value of production	0 MCF
Fulcher Kutz-Pictured Cliffs Gas (77200)	984			will not be decreased	10,334 MCF
				by commingling	

- (2) Are any wells producing at top allowables? ☐ Yes ☒ **No**
(3) Has all interest owners been notified by certified mail of the proposed 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

(B) LEASE COMMINGLING

Please attach sheets with the following information

- (1) Pool Name and Code.
(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? ☐ Yes ☐ No
(4) Measurement type: ☐ Metering ☐ Other (Specify)

(C) POOL and LEASE COMMINGLING

Please attach sheets with the following information

- (1) Complete Sections A and E.

(D) OFF-LEASE STORAGE and MEASUREMENT

Please attached sheets with the following information

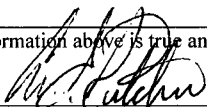
- (1) Is all production from same source of supply? ☐ Yes ☐ No
(2) Include proof of notice to all interest owners.

(E) ADDITIONAL INFORMATION (for all application types)

Please attach sheets with the following information

- (1) A schematic diagram of facility, including legal location. **Attached**
(2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved. **Attached**
(3) Lease Names, Lease and Well Numbers, and API Numbers. **Attached**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE:  TITLE: Regulatory Agent DATE: 10-25-07

TYPE OR PRINT NAME: Ann Ritchie TELEPHONE NO.: (432) 684-6381

E-MAIL ADDRESS: ann.ritchie@wtor.net

October 29, 2007

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
Northridge 2 CDP Gas Gathering System
San Juan County, New Mexico

Dear Sir:

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 N/2 of Section 3, Township 29 North, Range 13 West, NMPM, San Juan County, New Mexico. One well is a single completion in the Basin-Fruitland Coal Gas Pool (71629) and the other well is a single completion in the Fulcher Kutz-Pictured Cliffs Gas Pool (77200).

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 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 equally between 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 that the current (June, 2007) producing rate for the Northridge No. 2 is 10,334 MCF. This well is producing from the Fulcher Kutz-Pictured Cliffs Gas Pool. The Northridge No. 3T, which will be completed in the Basin-Fruitland Coal Gas Pool, is not yet producing.

Attachment No. 3 is a map showing the location of the wells and the associated pipelines within the proposed Northridge 2 CDP Gas Gathering System. The central delivery point and Enterprise Field Services gas sales meter is located within the SW/4 NW/4 of Section 3, Township 29 North, Range 13 West, NMPM.

Attachment No. 4 is a map that identifies all wells and leases within the proposed commingled area. As shown on the map, there is one Federal lease (Federal Lease No. SF-078643), and one fee lease, 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 all three 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

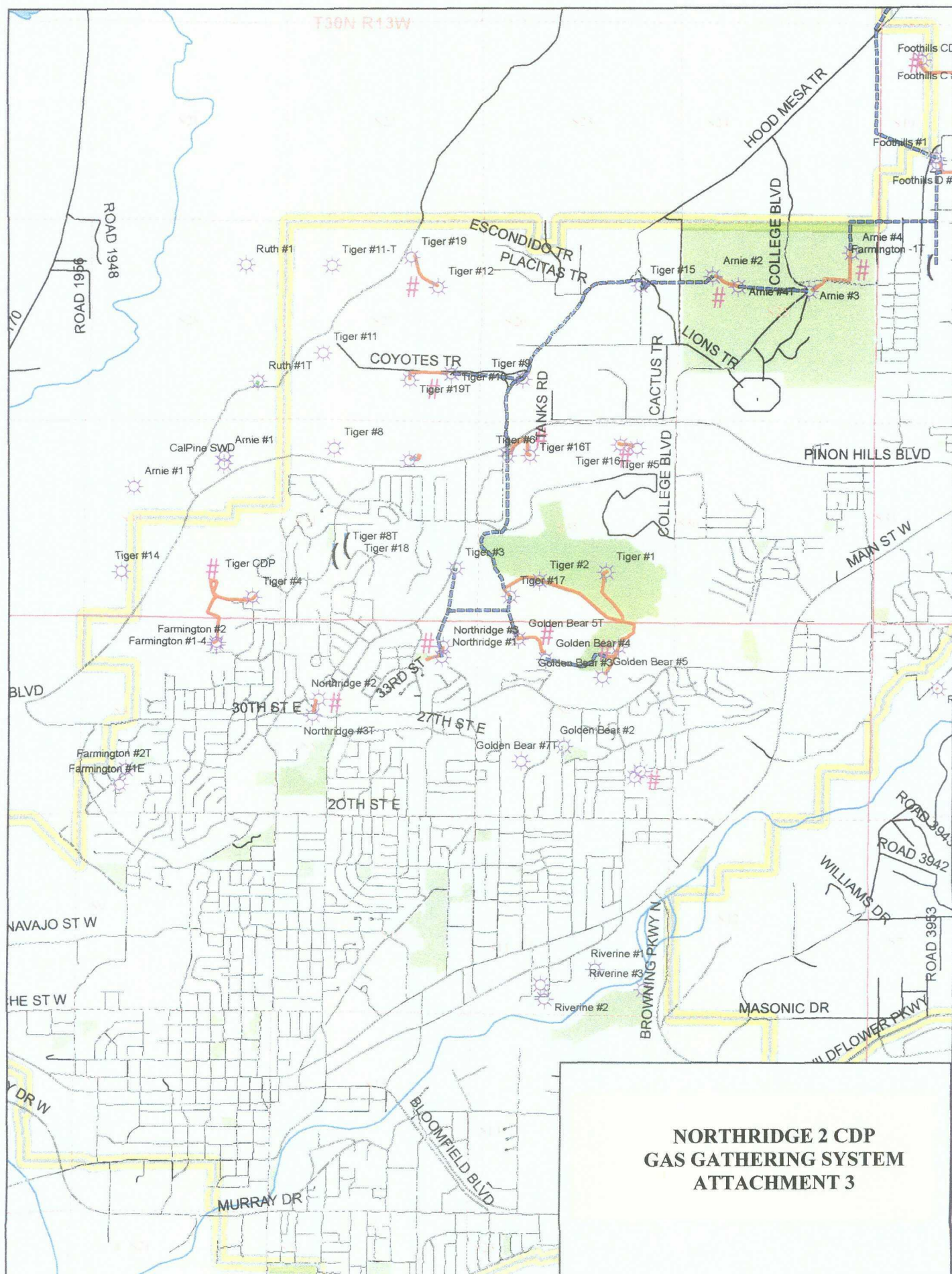
Pogo Producing (San Juan) Company
Northridge 2 CDP Gas Gathering System

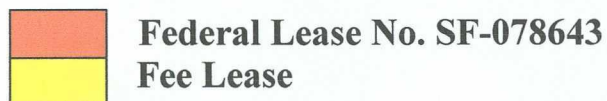
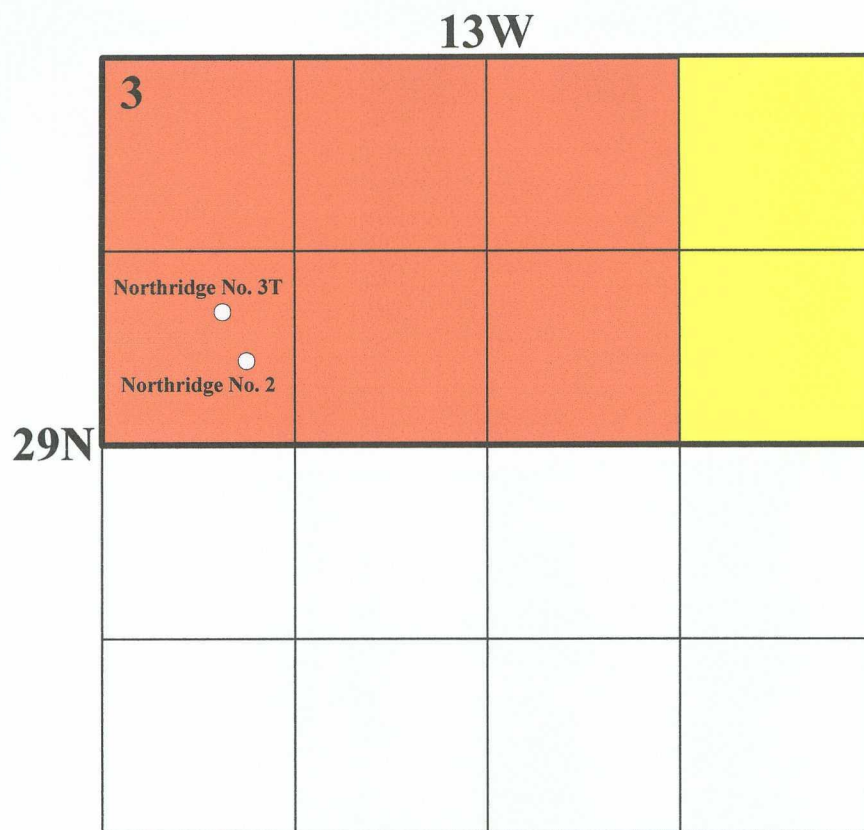
Well Name & Number	Current Operator	API Number	Unit Letter	Section	Twn.	Range	Well Location	Current Completion	Latitude	Longitude	Lease Type	Lease Number	Dedicated Acreage
Northridge No. 2	Pogo Producing (San Juan) Company	30-045-29294	E	3	29N	13W	2137' FNL & 1067' FWL	Fulcher Kutz-Pictured Cliffs Gas Pool	36.75679	-108.1979	Fed	NMSF-078643	NW1/4
Northridge No. 3T	Pogo Producing (San Juan) Company	30-045-34117	E	3	29N	13W	2000' FNL & 980' FWL	Basin-Fruitland Coal Gas Pool	36.75715	-108.19812	Fed	NMSF-078643	N/2

*Pogo Producing (San Juan) Company
Northridge 2 CDP Gas Gathering System*

<i>Well Name & Number</i>	<i>Producing Pool</i>	<i>Current Production (June 2007)</i>
Northridge No. 2	Fulcher Kutz-Pictured Cliffs Gas Pool	10,334 MCF
Northridge No. 3T	Basin-Fruitland Coal Gas Pool	0 MCF

Total Production (June, 2007): 10,334 MCF

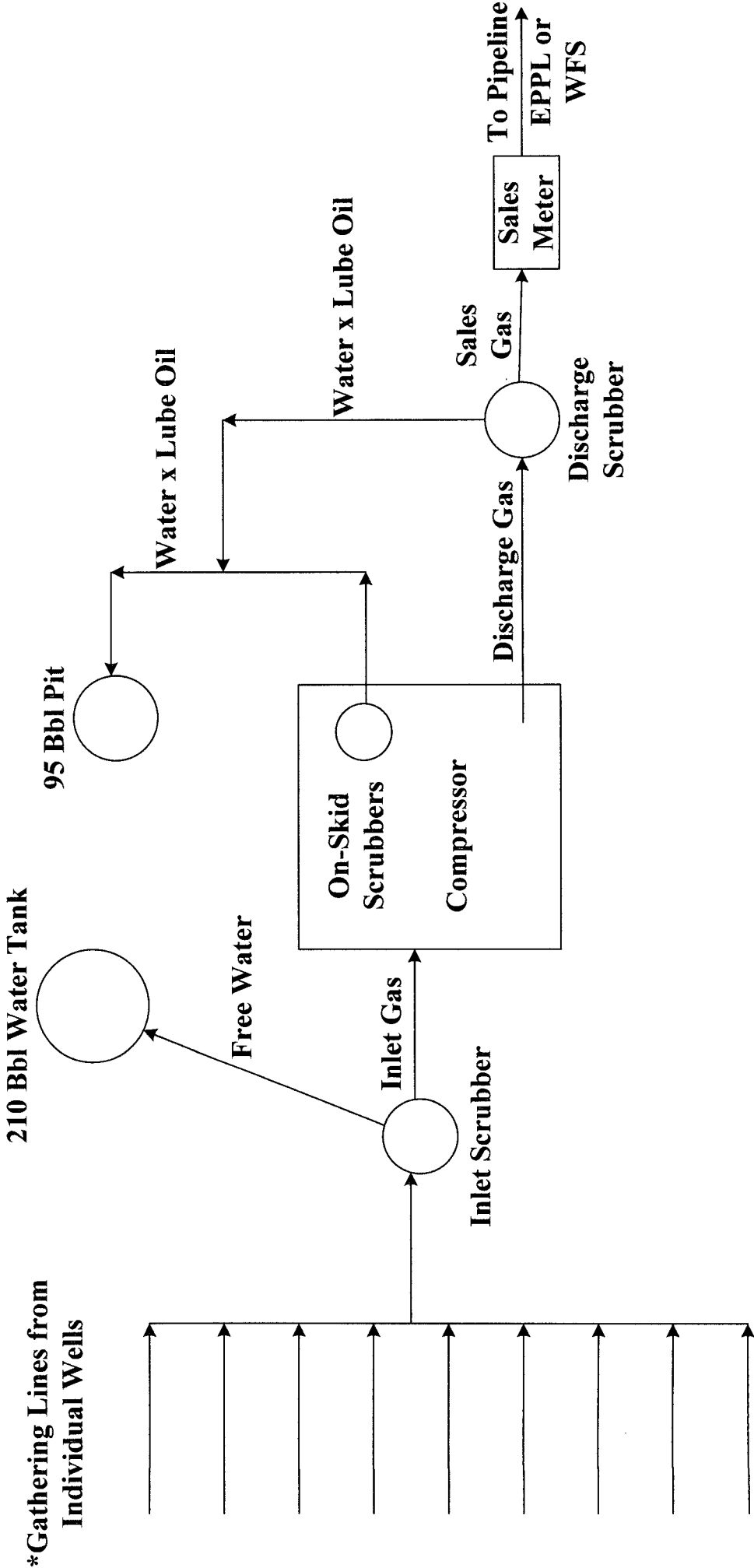




**POGO PRODUCING (SAN JUAN) COMPANY
 NORTHRIDGE 2 CDP GAS GATHERING SYSTEM
 ATTACHMENT 4**

POGO PRODUCING (SAN JUAN) COMPANY
TYPICAL SAN JUAN BASIN CDP
SCHEMATIC AND FLOW DIAGRAM

(Northridge 2 CDP Gas Gathering System Facilities are Located
in the SW/4 NW/4 of Section 3, T-29 North, Range 13 West



*Allocation Meters at Each Wellsite



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

ANALYSIS NO. PC270023
CUST. NO. 62780 - 10480

WELL/LEASE INFORMATION

CUSTOMER NAME	POGO PRODUCTION	SOURCE	WELLHEAD CASING
WELL NAME	SAN JUAN FEDERAL 1-T	PRESSURE	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 T8409	FOREMAN/ENGR.	

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.

COMPRESSIBILITY 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
DRY BTU @ 14.696	1,030.2
DRY BTU @ 14.730	1,032.6
DRY BTU @ 15.025	1,053.3

CYLINDER #	7005
CYLINDER PRESSURE	68 PSIG
DATE RUN	03/14/2007
ANALYST	BRANDY ROBERTS

ATTACHMENT 6



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

ANALYSIS NO. PC260024
CUST. NO. 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

COMPONENT	MOLE %	ANALYSIS		
		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.

COMPRESSIBILITY FACTOR (1/2)	1.0020
BTU/CU.FT (DRY) CORRECTED FOR (1/2)	964.3
BTU/CU.FT (WET) CORRECTED FOR (1/2)	948.4
REAL SPECIFIC GRAVITY	0.6470

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	959.0	CYLINDER #	4122
DRY BTU @ 14.896	962.1	CYLINDER PRESSURE	24 PSIG
DRY BTU @ 14.730	964.3	DATE RUN	6/13/2006
DRY BTU @ 15.025	983.6	ANALYSIS RUN BY	TIFFANI MONTOYA

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)
Northridge 2 CDP Gas Gathering System
N/2 of Section 3, 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