Trilogy Exception # 21 Response

Administrative Order PLC 184 issued by the New Mexico Oil Conservation Division, in conjunction with the New Mexico State Land Office and the Bureau of Land Management's Carlsbad Field Office, approved of our allocation method to report allocated sales volumes for the CPD back to the wells based on the allocation meters (Items 1 & 2). The Bureau of Land Management has audited the PLC 184 allocation methods two times, once on the Leggett Federal for the months of February, March, and April of 2000, and again on the Sweet Thing Federal Unit for the months of November and December of 2001. BLM did not take exception to the methods, did not issue any Written Orders or Notice of Incidents of Noncompliance concerning either of these audits. Both audits had to include all of the wells and meters associated with the PLC 184 in order to balance.

In September of 1999 an Ajax DPC 360 compressor was installed to compress the gas for PLC 184. The manufacturer's fuel gas usage rate is calculated at 70 mcfpd for a 24 hour run time. On March 1, 2001 this compressor was replaced with a larger Caterpillar 3516 Compressor. The manufacturer's fuel usage rate is calculated at 241 mcfpd for a 24 hour run time (Item 3). This is a difference of 171 mcfpd in fuel usage or 5130 mcf per month. Measurement errors were found in five months out of forty-one months reviewed. One month is July 1999. When the error is corrected according to the Bureau of Land Management's Onshore Oil and Gas Order #5 Gas Measurement the CPD less than meters changes from the stated 21% to 4.7%. The same is true for August 1999. The CPD less than meters changes from 20% to 0.7% (Items 2&4). These errors were due to a DP Measurement Pulse Error recorded in the Totalflow events log. The same is true for December 1999, January and February 2001. These measurement errors will be corrected in consensus with the Bureau of Land Management's Carlsbad Field Office I&E personnel. The total volume to be corrected should result in a decrease of the allocation volumes by approximately 25,792 mcf. This will reduce the excepted difference between allocation meters and sales meter volume total listed on page 1 of attachment T from 69,340 mcf to 48,072 mcf. If the theory presented in Exception # 21 were extended past September 2001 until February 2002 the balance would be (-417) mcf and growing. The corrected average difference between the allocation meters and the sales meter from 3/99 through 2/01 is 3,302 mcf per month. The corrected average difference between the allocation meters and the sales meter from 3/01 through 9/01 is (-4454) mcf per month. This is an average variance of 7,756 mcf per month. If you subtract the average increase in fuel usage of 5,130 mcf per month the variance is decrease to 2,626 mcf per month or 1.7% of the average monthly volume for 3/01 through 9/01.

The majority of the allocation meters in place when we purchased the leases from Stevens & Tull were dry flow Barton chart meters without temperature recorders. The meter tubes and volume calculations are based on AGA 3 '85 edition specifications in compliance with Onshore Oil and Gas Order No. 5; Gas Measurement. We have replaced all of the chart recorders with Totalflow Electronic Flow Meters with temperature recorders. The first of these meters was replaced on December 19, 2000 on the Nasser Federal Upper Penn. The flowing characteristics of heading up and dying off of this well made chart integration difficult. There are also some differences in lab analysis used to calculate the volumes for the allocation meters and the sales meter. These differences account for the remaining 1.7% difference.

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Case Nos. 12967 and 12968 Exhibit No. 19 Submitted by: <u>Trilogy Operating Inc.</u> Hearing Date: January 9, 2003



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary

Lori Wintenbery Distant Off Conservation Division

COMMINGLING ORDER PLC-184

ARCO Permian P.O. Box 1089 Eunice, New Mexico 88231

Attention: Mr. Robert L. Manthei

The above named company is hereby authorized to commingle Indian Loafer Draw-Upper Pennsylvanian (Gas - 79122) and Little Box Canyon-Morrow (Gas - 80240) Pool production from the following wells:

Well:	Crooked Canyon "35" Federal No. 1 (API No. 30-015-30559)
Description:	E/2 of Section 35, Township 20 South, Range 21 East, NMPM;
Well:	Leggett Federal No. 1 (API No. 30-015-25228)
Description:	E/2 of Section 22, Township 20 South, Range 21 East, NMPM;
Well: Description:	Sweet Thing Federal Unit No. 1 (API No. 30-015-28130) Sweet Thing Federal Unit No. 2 (API No. 30-015-30338) W/2 of Section 6, Township 21 South, Range 22 East, NMPM; All of Section 31, Township 20 ½ South, Range 22 East, NMPM;
Well:	B & C Federal "25" No. 1 (API No. 30-015-30842)
Description:	S/2 of Section 25, Township 20 South, Range 21 East, NMPM;
Well:	Sweet Thing "36" State No. 1 (API No. 30-015-30004)
Well:	Sweet Thing "36" State No. 2 (API No. 30-015-30850)
Description:	All of Section 36, Township 20 ½ South, Range 21 East, NMPM;
Well: Description:	Little Box State No. 2 (API No. 30-015-30224) Little Box State No. 3 (API No. 30-015-30434) Little Box State No. 4 (API No. 30-015-30486) All of Section 36, Township 20 South, Range 21 East, NMPM;

Oil Conservation Division * 1220 South St. Francis Drive * Santa Fe, New Mexico 87505 Phone: (505) 476-3440 * Fax (505) 476-3462 * http://www.emnrd.state.nm.us

Item 1

ARCO Permian Commingling Order PLC-184 July 26, 2001 Page 2

Well:Nasser Federal "1" No. 1 (API No. 30-015-27865)Description:N/2 of Section 1, Township 21 South, Range 21 East, NMPM;

Well:Hilltop Federal No. 1 (API No. 30-015-25229)Description:W/2 of Section 1, Township 21 South, Range 21 East, NMPM;

All in Eddy County, New Mexico.

Production shall be allocated by separately metering the production from each well, utilizing allocation meters, prior to commingling.

NOTE: This installation shall be installed and operated in accordance with the applicable provisions of Rule 309-B of the Division Rules and Regulations and the Division "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

FURTHER: The operator shall notify the Artesia district office of the Division upon commencement of commingling operations.

LORI WROTENBERY, Division Director

LW/DRC

cc: Oil Conservation Division – Artesia State Land Office-Oil & Gas Division Bureau of Land Management-Carlsbad

XC: Amy Spang - HOO ARTESIA

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OPERATOR'S CO	PY Original = 10 Duplicate = 70	99.3220.0003.4761.7011
Form 3160-5 UN (June 1990) DEPARTM BUREAU O	ITED STATES ENT OF THE INTERIOR F LAND MANAGEMENT	FORM APPINO VED Eutoget Barans No. 1904-0115 Expires: March 351, 1993 5. Lesses Designation and Social No.
SUNDRY NOTICES A Do not use this form for proposals to dr Use "APPLICATION FO	ND REPORTS ON WELLS Ill or to deepen or reentry to a different reserv DB_PFBMIT - for such_proposals	oir.
SUBMI	T IN TRIPLICATE	7. If Un H or CA, Agreement Designation
Type of Well OII X Gas Well OII Well Other ARCO Permian		6. Well Stame and No. See Attached Application
3. Address and Telephone No. P.O., Box 1089, Eunice, NM 88231	505-394-1649	9. API Well No. See Attached Application 10. Field and Pool or emploratory Alex
e. Location at Well Proclage, Soc., T. R., M., or Survey De Various	2007 2007)	Various 12. County or Parish Sinte Eddy NH
12. CHECK APPROPRIATE BOX	X(s) TO INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPEOPA	CTION
Subsequent Report	Abandonment Recompletion Pingsing Back	New Constructions
Final Abandonment Notice	Casing Repair Abering Casing	Water Shub-Off Conversion to Injection
	Other	(Note: Dispose Water (Note: Deport results of multiply completion on Completion or Recompletion Report and Log &
ARCO Permian requests permission measurement of gas, and to utilize per the attached application. Please note that co-owner notific ROW numbers that are associated w NM-102283, NM-92518, NM-102284, N	to conduct surface commingling of gas, o e an alternate method of measurement of g ation has been made. ith this application are as follows: N-92582, RW-25380, RW-22680	ff lease gas as
BLM FILE IN NM274 Lease Correspondence	ε.	EE ATTACHED FOR DITIONS OF APPROVAL
14. Thereby control in at the foregoing is mue and correct Signed fall fill fill fill fill fill fill fill	A.C. Tille Sr. Administrative Assista	int12/21/00
(This space for Federal or State office use) Approved by <u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u><u>I</u></u>	bode Tite PETROLEUM ENGIN	IEER APR 3 0 2001
		Item 1 pg 3 ef 9

Title 18 U.S.C. Section 1001, makes it a mime for any person knowingly and willfully to make to any department or agency of the United States any faise, fictilious or fraudulent su

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Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201 505-627-0272

Off-Lease Measurement, Storage, and Surface Commingling Conditions of Approval

Approval of surface commingling and off-lease storage and/or measurement is subject to the following conditions of approval:

- 1. This agency shall be notified of any change in sales method or location of the facility.
- 2. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 3. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 4. This approval is subject to like approval by the New Mexico Oil Conservation Division.
- 5. Additional wells and/or leases require additional commingling approvals.
- This approval does not constitute right-of-way approval for any off-lease activities. Within 30 days, an application for right-of-way approval must be submitted to the Realty Section if not already done.

9/3/96 -- acs (fn:offlease.01)

CRA BLM FORMAT

APPLICATION FOR SURFACE COMMINGLING, OFF LEASE MEASUREMENT AND ALTERNATE METHOD OF MEASUREMENT

This Format Should Be Attached To A Sundry Notice

To: Bureau of Land Management P.O. Box 1778 Carlsbad, NM 88221-1778

<u>ARCO Permian</u> (Operator's Name) is requesting approval for surface commingling and off-lease measurement and alternate method of measurement of gas production from the following formation(s) and well(s) on Federal Lease No. <u>NM25336</u>; Lease Name: <u>Crooked Canyon 35 Federal</u>

No. NM25336 ; Lease Name: Leggett Federal

30-015-30486 SESW 36

<u>Well</u>

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No.	<u>API #</u>	Loc.	Sec.	Twp.	<u>Rng.</u>	Formation
1	30-015-30559	<u>NESE</u>	35	<u>20S</u>	<u>21E</u>	Little Box Canyon Morrow
1	30-015-24381	NESE	22	<u>205</u>	<u>21E</u>	Indian Loafer Draw Upper P.

No. NMNM91032A ; Lease Name: Sweet Thing Federal Unit

<u>Well</u> <u>No.</u>	<u>API #</u>	Loc.	Sec.	<u>Twp.</u>	Rng.	Formation
12	<u>30-015-28130</u> 30-015-30338) <u>SENW</u> NWNY	7 <u>6</u> W 31	<u>215</u> 20.58	22E 22W	Little Box Canyon Morrow Little Box Canyon Morrow
No	<u>NM93457</u> ; Le	ase Nar	ne: <u>B&</u>	2 <u>C 25 Fe</u>	deral	WALL IN L 17 10
<u>Well</u> <u>No.</u>	<u>API #</u>	Loc.	Sec.	<u>Twp.</u>	Rng.	Formation
1	30-015-30842	<u>swsv</u>	V 25	208	<u>21E</u>	Little Box Canyon Morrow
No No	VA0802-3 VA1541	Lease l Lease N	Name: <u> </u> Name:]	<u>Sweet T</u> Little Bo	hing 36 State ox State	
<u>Well</u> <u>No.</u>	<u>API #</u>	<u>Loc.</u>	Sec.	<u>Twp.</u>	<u>Rng.</u>	Formation
$\frac{1}{2}$	<u>30-015-30004</u> <u>30-015-30850</u> <u>30-015-30224</u> <u>30-015-30434</u>	<u>SESE</u> Lot 1 SESW	<u>36</u> <u>36</u> 7 <u>36</u> 736	<u>20.58</u> 20.5 <u>5</u> 20 <u>5</u> 20 <u>5</u>	<u>21E</u> <u>21E</u> 21E 21E	Little Box Canyon Morrow Indian Loafer Draw Upper P. Little Box Canyon Morrow Little Box Canyon Morrow

20 S

21E

Indian Loafer Draw Upper P.

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APPLICATION FOR SURFACE COMMINGLING, OFF LEASE MEASUREMENT AND ALTERNATE METHOD OF MEASUREMENT

No. <u>NM27451</u>; Lease Name: <u>Nasser Federal</u> No. NM27451 ; Lease Name: Hilltop Federal

No.	<u>API #</u>	Loc.	Sec.	<u>Twp.</u>	Rng.	Formation
$\frac{1}{1}$	30-015-27865	SENE	<u>01</u>	21S	21E	Little Box Canyon Morrow
	30-015-27865	SENE	01	21S	21E	Indian Loafer Draw Upper P.
	30-015-25229	SENW	7 01	21S	21E	Indian Loafer Draw Upper P.

Production from the wells involved is as follows:

Well Name and No.	BOPD	<u>Oil Gravity</u>	MCFPD	METER#
Crooked Canyon 35 Fed #1			20	646456
Leggett Federal #1			2	<u>646191</u>
Sweet Thing Fed Ut. #1			43	646209
Sweet Thing Fed Ut. #2			19	646266
B&C 25 Federal #1		, 	56	646548
Sweet Thing 36 State #1			_26	646290
Little Box State #2			17	<u>646159</u>
Little Box State #3			0	646159
Little Box State #4			942	646175
Sweet Thing 36 State #2			523	646589
Nasser Federal #1			917	646217
Nasser Federal #1			17	646241
Hilltop Federal #1			9	646365

The proposed operation is described in detail on the attached diagrams.

A map is enclosed showing the lease numbers and locations of all leases and wells that will contribute production to the proposed commingling. All unitized/communitized areas, producing zones/pools are also clearly illustrated.

A schematic diagram is also attached which clearly identifies all equipment that will be utilized.

The measuring facility is located at <u>SENE</u> (1/4 1/4), Sec. 1, T 21 S, R 21 E, on Lease No. <u>NM27451</u>, <u>Eddy</u> County, New Mexico. BLM will be notified if there is any future change in the facility location.

Details of the proposed method for allocating production to contributing sources is as follows:

All gas sold is measured separately and allocated back to each lease based on it's percent of contribution to the total volume sold. Lease use fuel is calculated and allocated on the same percent base back to each lease.

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APPLICATION FOR SURFACE COMMINGLING, OFF LEASE MEASUREMENT AND ALTERNATE METHOD OF MEASUREMENT

The working interest owners have been notified of the proposal.

The proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production.

The proposed commingling is necessary for continued operation of the above referenced Federal leases.

We understand that the requested approval will not constitute the granting of any rightof-way or construction rights not granted by the least instrument. And, we will submit within 30 days an application for right-of-way approval to the BLM's Realty Section in your office if we have not already done so.

Additional wells require additional commingling approvals.

Signature: Name: Robert L. Manthei

Title: Operations Supervisor

Date: <u>12/07/00</u>

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12/30/2002 MON 11:45 FAX

COMMISSIONER'S OFFICE Phone (505) 837-5760 Fax (505) 827-5766

ADMINISTRATION Phone (505) 827-5700 Fax (505) 827-5853

GENERAL COUNSEL Phone (505) 827-5713 Fax (505) 827-4262

PUBLIC AFFAIRS Phone (505) 827-1245 Fax (505) 827-5766

August 28, 2001

ARCO Permian P.O. Box 1089 Eunice, NM 88231

Attention: Mr. Robert L. Manthei

Application to Surface Commingle Re:

Crooked Canvon 35 Federal, Leggett Federal, Sweet Thing Federal Unit, B&C 25 Federal, Sweet Thing 36 State, Little Box State, Nasser Federal, Hilltop Federal Indian Loafer Draw Upper Penn & Little Box Canyon (Morrow Gas) Pools Sections 01, 06, 22, 25, 31, 35, 36, T20.5S-21E Eddy County, New Mexico

Dear Mr. Manthei:

We are in receipt of your letter of August 13, 2001. Your letter requests our approval to surface commingle and sell through one central sales point the Indian Loafer Draw-Upper Pennsylvanian and Little Box Canyon-Morrow Pool production from the following wells:

Well Name	
and Number	Description
Crooked Canyon "35" Federal No. 1	E/2 Sec. 35-20S-21E
Leggett Federal No. 1	E/2 Sec. 22-20S-21E
Sweet Thing Federal Unit No. 1	W/2 Sec. 6-21S-22E
Sweet Thing Federal Unit No. 2	All Sec. 31-201/S-22E
B & C Federal "25" No. 1	S/2 Sec. 25-20S-21E
Sweet Thing "36" State No. 1	All Sec. 36 201/28-21E
Sweet Thing "36" State No. 2	All Sec. 36 201/8-21E
Little Box State No. 2	All Sec. 36-20S-21E
Little Box State No. 3	All Sec. 36-20S-21B
Little Box State No. 4	All Sec. 36-208-21E
Nasser Federal "1" No. 1	N/2 Sec. 1-21S-21E
Hilltop Federal No. 1	W/2 Sec. 1-21S-21E

It is our understanding that the above-mentioned production will be allocated by separately metering the production from each well, utilizing allocation meters, prior to commingling.



New Mexico State Land Office **Commissioner of Public Lands** Ray Powell, M.S., D.V.M.

COMPLEXALL RESOURCES Mons (Ses) Strang

010/020

Fax (36) 270257

MINERAL SEMENTICS Phone (908 - 3746 Fax (503) 52-7739

ROYALTY MANAGEMENT Paone (505) 327-5772 Fax (505) 817-0739

SURFACE RESOURCES Phone (505) 827-5793 - Fax (505) 827-5711

I-tim !

"WE WORK FOR FUI ICATION"

ARCO Permian August 28, 2001 Page 2

Since it appears that all the New Mexico Oil Conservation Division's rules and regulations have been complied with, and there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request is hereby approved. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Your \$30.00 dollar filing fee has been received.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M. COMMISSIONER OF PUBLIC LANDS

Ð BY:

JAMI BAILEY, Director Oil, Gas and Minerals Division (505) 827-5744 RP/JB/pm pc: Reador File

pc: Reador File OCD-Attention: David Catanach, Ben Stone, BLM-Roswell, Attn: Mr. Armando Lopez ✻

19.15.6.403 NATURAL GAS FROM GAS WELLS TO BE MEASURED

A. All natural gas produced shall be accounted for by metering or other method approved by the Division and reported to the Division by the transporter of the gas. Gas produced from a gas well and delivered to a gas transportation facility shall be reported by the owner or operator of the gas transportation facility. Gas produced from a gas well and required to be reported under this rule, which is not delivered to and reported by a gas transportation facility shall be reported by the operator of the well.

B. An operator may apply to the OCD District Supervisor, using Form C-136, for approval of one of the following procedures for measuring gas:

(1) In the event a well is not capable of producing more than 15 MCFD, a measurement method agreed upon by the operator and transporter whereby the parties establish by annual test the producing rate of said well under normal operating conditions and apply that rate to the period of time the well is in a producing status. If such well is capable of producing greater than 5 MCFD, a device shall be attached to the line which will determine the actual time period that the well is flowing.

(2) Any well which has a producing capacity of 100 MCFD or less and which is on a multiwell lease may be produced without being separately metered when the gas is measured using a lease meter at a Central Point Delivery (CPD). The ownership of the lease must be common throughout including working interest, royalty and overriding royalty ownership.

(3) If normal operating conditions change, either party may request a new well test, the cost of which will be borne by the party so requesting unless otherwise agreed upon.

C. Operators and transporters shall report the well volumes on Forms C-115 and C-111 based upon the approved method of measurement and, in the case of a CPD, upon the method of allocation of production to individual wells approved by the District Supervisor. [1-1-50, 12-23-91...2-1-96; 19.15.6.403 NMAC - Rn, 19 NMAC 15.F.403, 12-14-01]

BUREAU OF LAND MANAGEMENT 43 CFR 3160

Federal Register / Vol 54, No. 36 Tuesday, February 24, 1989 Effective date: March 27, 1989

Onshore Oil and Gas Operations; Federal and Indian Oil & GasLeases; Onshore Oil and Gas Order No. 5; Measurement of Gas

III.B. General

All gas production shall be measured in accordance with an authorized method of measurement. As set out in 43 CFR 3162.7-3, gas produced from leases, units, unit participating areas, and communitization agreements subject to the Bureau of Land Management, as such jurisdiction is defined in 43 CFR 3161.1, may be by orifice meter or other methods acceptable to the authorized officer. The requirements and minimum standards for gas measurement are set out below.

The requirements of this Order are based on the standards and specifications published by the American Gas Association (AGA) and officially designated as ANSI/API 2530 and AGA Committee Report No. 3, second edition, 1985, hereafter referred to AGA Committee Report No. 3. The AGA published standards and specifications are considered to be appropriate for proper gas measurement by both the Department of the Interior and the Oil and Gas Industry. The requirements set minimum standards necessary to promote conservation of natural resources and to ensure proper measurement of gas production for sales and allocation purposes, so that the Federal Government and Indian mineral owners will receive the royalties due under governing oil and gas leases.

All future sales and allocation facilities sales and allocation facilities and sales or allocation facilities in existence on the effective date of this Order, unless covered by a valid variance, shall meet the minimum

Item 2

standards prescribed in this Order, provided, however, that all gas produced from or allocated to Federal and Indian (except Osage) oil and gas leases wherein the gas leases wherein the gas is measured through sales or allocation meters handling 100 MCF per day or less on a monthly basis are exempt from the standards in Section III.C.1, C.2, and C.4 of this Order. The authorized officer may, where apropriate and necessary for proper measurement, work with the operators in designating consolidated gas sales and/or allocation meter stations.

Meter installations constructed n accordance with the AGA Committee Report No. 3 standards in effect at that time shall not automatically be required to retrofit if the standards are revised. The Bureau will review any revised standards, and when it is deemed necessary will amend the Order accordingly through the rulemaking process. The intent of these minimum standards is to ensure that when equipment malfunctions that could result in maccurate measurement occur, proper corrective actions are taken, the authorized officer is notified, and an amended production report is submitted.

Failure to comply with these minimum standards will be considered as noncompliance and an incident of noncompliance (INC) will be issued. Operators who discover noncompliance with these minimum standards and take immediate corrective action will not be issued an INC. If the authorized officer or his representative is present when an operator discovers a malfunction or uses incorrect procedures as specified in this Order, an INC will be issued unless immediate corrective action is taken. Failure of equipment will not be considered a violation. However, the incidents of noncompliance which may result from equipment failure are considered violations and a partial list is as follows:

III.C.20. Gas Measurement by Orlfice Meter

If, for any reason, the measuring equipment is out of service or malfunctioning so that the quantity of gas delivered is not known, the volume delivered during this period shall be estimated using one of the following methods, in this order of priority:

a. Record data on check metering equipment if used in lieu of main meter recordings. If check meters are not installed or are found to be recording inaccurately; then,

b. Base corrections on the percentage error found during the instrument test. If that is not feasible; then,

c. Estimate the quantity of gas run, based on deliveries made under similar conditions when the intering equipment was registering accurately.

Violation: Minor.

Corrective Action: Estimate volumes delivered during those periods cited using one or more of the approved methods identified in the order of priority and, when necessary, submit an amended report showing corrected volumes. Abatement Period: 60 days.

UNIVERSAL COMPRESSION

FAX COVER DATE: TO: COMPANY DEPARTMENT - 9 05 FAX NUMBER ATTENTION: FROM: Jim Brown En Ch District Manager 1. C. 1. Universal Compression, Inc., Midland, Texas # OF PAGES ··(INCLUDING COVER) IF ALL PAGES NOT RECEIVED, PLEASE CALL 915-570-5851 1 2 FAX NUMBER IS 915-570-5852 . . THIS TRANSMISSION IS INTENDED SOLELY FOR THE PERSON NAMED ABOVE AND MAY CONTAIN CONFIDENTIAL INFORMATION. IF THIS FAX IS RECEIVED IN ERROR, PLEASE CONTACT 915-570-5851 TO MAKE 61. ARRANGEMENTS FOR ITS RETURN. MESSAGE: -360 87.0 P-HR 100 1 76 O ¥ rowls UNIVERSAL COMPRESSION, INC. 306 WEST WALL, SUITE 1217 MIDLAND, TEXAS 79701 TELEPHONE: 915-570-5851 FAX: 915-570-5852 CELL: 915-556-4414 Ibrown@universalcompression.com 11 3

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Ajax Engine Product Definition Partormance at Ested Conditions of v1500 ft. and 65 deg.F BHF based on 100 deg.F ambient temperature report ajaxprod (revised 6/17/96) 7

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17	84-105	i	ياجانو کې ا	10-0			101-		•••-							• • • • •	I GOUT	480.069		
19	se-115	1	13.20	16_0	360	110	55.0	5000	3.0	2.2	14.0	12.00	190	440	085	37.52	1120	50-25		
20	DP-230	2	13-25	16.0	360	221	55.0	0000	5.0	2.2	14.0	12.00	100	440 5.60	1010	79.67	1127	20.51		
	0P-250	2	13.25	16.0	350	250	2011 57.5	8400	5.0	1.5	11.0	13.25	260	450	2420	102.06	1266	19_63		
25	Abertes.		17101		200	4.5	¥7													_
24	0PC-60	1	9-50	12.0	475	58	54.5	9000	2.0	1.5	4.0	5.00	150	540	500	17.19	1432	19.99		•
ర	070-120	Z	9_5Q	12.0	475	115 78	54.3	9000 8500	6_0	1.0	3.5	10.00	164	545	610	23.29	1118	17.97		
24	1975-91 1886-182	ż	10.50	12.0	475	156	67.4	8500	9.5	1.5	3.0	10.00	164	545	1230	46.97	1125	18.12		
2	DPC-80	Ī	11_0	14.0	400	77	57.1	8900	3.0	2.5	8.0	10.00	164	170	610	2.17	1118	19.57		
23	opc-160	Z	11.0	14.0	400	154	57,1	8240	3.0	4.0	D.4	10-00	100	M 7W	1229	20424	1110	14-01		
- 34 T	625-105	1	17.00	14.0	425	101	59.3	5300	-3.5	2.5	5-0	12.00	193	480	780	31.84	873	18.96		
2	0PC-115	1	13.2	5 16.0	360	110	55.0	9000	3.0	2.2	11.5	12.00	190	40	560	37.52	1120	21.39		
1	opc-140	1	13.2	5 16-0	200	134	60.3	6000	9.5	1.2	5.5	12.00	140	690 1.45	1200	62.JT	1525	15 45		Ŧ
34	0PC-180	1	15.04	1 16.0	400	173	55.0	6000	3.0	2.2	11.5	12.00	190	660	1770	75.48	7127	20.51		ά.
ン シン シン	5 DPC-280	ź	13.2	5 16.0	400	269	60.3	6000	95	1.2	5.0	12.00	190	470	2030	63.77	1292	10.70		
3		• _	40.0		~ . =		-	-775.B	лг	11	14.5	17.25	260	674	225a	84.LR	1177	20_10		
4 3		5	15.0	5 16.0 1 16.0	.309 200	344	60.5	8100	5.0	1.0	9.5	13.25	260	680	2630	107.57	1373	18.64		
म ध	090-540	ī	15.0	9 16.0	400	54a	63.0	2000	1.0	1.1	9.0	17.25	303	445	3860	165.98	797	17.89		
4	095-600	3	15-0	14.0	200	576	67.2	8000	15.5	1.1	8.2 8.0	17.75	241	315 (45	STAG	716.91	295	16_77		
5 1	2 0PC+720	ì	15.0	0 16-0	200	768	67.2	8000	15.5	1,1	8.5	17.25	241	515	5460	214.91	841	16.79		
ĩ		-		•				••••	_			44 45		6.4m				-		
4	5 DPC-2201	1	13.2	5 16.0	440	168	60.4	6000	9.5	1.2	5.0	12,00	190	470 1771	2210	40,00	1631	10.01		
4	5 090-2202	2	13.2	5 14,Q A 14 A	- 440 - 600	294	41 1	1000	5.0	1.0	9.5	13.25	236	1.60	1420	59.25	1455	18.51		
2	5 0PC+2602	Ż	15.0	0 16_0	40	384	61.1	8100	5.0	1.0	9.5	13.25	260	465	2850	118.25	1688	18.48		
4	9 OPC-2803	3	15.9	0 16.0	440	634	67.3	5000	4.6	.1.1	9 . 0	17.25	207	465. 115	6270	177-16	877	16.77		
5	d opc-2804	4	15.0	0 16.0	440	845	67.2	6000	8.0	4-1	7.4	17.424	441	~~~ .	491V	1,) Q = \(f	010	50 q J Q		
2) 7 800-1151	F 1	15.2	5 16-0	360	110	55.0	8100	2.0	2.0	7.0	12.00	190	606	840	37.48	1071	20.37		
Ś	3 OPC-1400	Ê 1	13.2	5 16.0	400	134	60.3	7500	2.0	1.3	5.0	12.00	190	450	990	41.75	1261	18.64		
5	C OPC-180L	E 1	15.0	0 16.0	200	173	60.5	7800	2.0	1.0 7 r	0.4 70	12.00	100	537 200	1690	73.67	1076	20_67		
2	5 0PC-230L	E 2 F 2	13.2	D 16.0	1 300 1 600	221	0.00 60.1	7600	510	1.3	5.0	12.00	191	450	1990	59.23	1267	18.73	•	•
5	7 DPC-300L	Ē	15.0	10 16,0	360	200	56.0	8300	5.0	1.1	8.0	13.25	260	635	2250	96.48	1175	20.10		
S	8 • • • • • • • • •			n +c /		• • • • •	60 5	7805	2.0	1-0	5.0	11.25	260	490	2639	107.37	1373	13,44		
2	9 DPC-3001 0 DPC-5601	E S	19-1	10 15.0		540	63.0	7200	2.5	9.9	5.5	17.25	303	465	IIEO	160.5	777	17.35		
Č	1 020-6001	E :	15,1	16.1	Q 400	576	67.2	7800	6.5	0.E	5.0	17.25	261	515	6090	160,97	794	10.77		
ć	2 0PC-7201	Ę	L 15.	10 16.1	0 404	1 720	63.0 7 71 1	7800	2.0	0.8	5.0	17.2	241	515	5460	216.91	841	16.79		
1	13 UNE-9441 Vé	-6	a 1941	10 U U	u 401	4 100	91.6		~ ~ * * *											
	5 DPC-220	ILE	1 13.1	25 16.	0 440	148	60,4	7800	2.0	1.3	5.0	12.00	190	690 / 57	1140	46,05	1451	18.67		
	A DPC-220	घह	2 13.	25 16.1	0 440	294	60.4	7300	2.0	1.0	9°0 2°1	13.25	256	440	1620	59.23	1653	16.51		
	57 UPC-280 43 OPC-280		1 12.1	vu taji 00 16-i	0 LLI	197 197	. 61.1	7500	2.0	1_0	4.0	17.2	241	665	2550	118.20	5778	18.49		
i	59 DPC-280	SLE	3 15.	00 16.	0 64	0 600	63.7	7600	2.0	0_9	5.5	17.25	241	51S	1500 1000	177.13	925	17.71		
	70 OPC-280	LLE	4 15.	00 16.	0 11	0 800	5 63 .1	7800	1 3.0	Q_9	2-2	14.42		6.15			, , , , ,	-, •• •		

17 June 98

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אנור כא לבמד דתיאן ויז היותרואליאה את אוניאריא איי ארא ארא איין איי אוא

المراجع ا -1- 7

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Section 3: Equipment Information

	Unit No. (1)	Type of Unit Serial No. (2)	Manufacturer and Model No.	Size of Unit	Date of Installation(4)	Type and Sulfur Content of Furl (5)	Amouni of Fuel Per Year (6)	Turko Charged7 Jus/ac
		Natural Gas Fucked	Caterpillar	1150 hp (3a)	On Receive	Sweet Natural	97.03.04-61	
×١		Compressor Engine	3516 LE	1133 hp (3b)		Gas	87.9 MMCUyr	Ya
		Natural Gas Fueled		1500 MBau (3a)		Sweet Natural		
	2	Stack Pack (Heater Treater)	TBD	1500 MBau (3b)	EXEMP	Gas	14-0 MMSCI/yr	N/A
				(32)				
	3	210 bbi Tank	N/A	(3 b)	Existing			N/A
				(33)				
	4	210 bbl Tank	N/A	(3b)	Existing			N/A
				(3a)				
ł				(3b)				Ì
				(36)				
								,
				(3b)				
				(Ja)				
				(3b)				
				(3a)				
				(36)				
				(52)				
				(3b)		ļ		<u> </u>
	•			(3a)		:		
				(3b)				
				(32)				0.444 gran
				(36)				
				(3a)			1	
				(36)				

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bp-Nasser Federal #1 **Engine** Emissions 1

Emission Unit Source Description:

natural gas-fueled compressor engine

Engine Type:

Manufacturer: Caterpillar Model: 3516 LE Turbo/Normal: Turbo Lean/Rich: Low Emission 2/4 cycle: 4

Horsepower Calculations

Mfg. Data	
Mfg. Data	
	Mig. Data Míg. Data

Emission Calculations

Uncontrolled emissions

	t	VOx	CO	NMHC	Units	
	Ĩ	2.00	1.60	0.40	g/hp-hr	Unit emissions from mfg. data
		5.0	4.0	1.0	lb/hr	Unit emissions * hp / 453.6 g/lb
	2	1.8	17.5	4.4	tons/yr	lb/hr * 8760 hr/yr / 2000 lb/ton
Fuel Consumption						
•		7,973	BTU/hp-hr	Fuel cons	umption	Mfg. Data
		900	BTU/scf	Fuel heat	value	Typical Natural Gas
		10.02	Mscf/hr	Fuel cons	umption	Fuel Consumption / Fuel heat value * site rated hp
	¥	87,80	MMcf/yr	Annual fu	iel usage	Assume 8760 hrs/yr operation
Extension Barranses						
EXHAUST LALAUTERS		847	dea F	Exhaust ti	emá	Mfo. Data

Exhaust	Parameters
---------	------------

847 deg F	Exhaust temp	Mfg. Data
6720 cím	Stack flow	Mfg. Data
0.8 ft	Stack diameter	Engineering Estimate
205.3 ft/s	Stack velocity	Stack Flow (cfm) / Stack Area (ft ²) * 1 min /60 s
24.0 ft	Stack height	Engineering Estimate

017/020

Item 3 By 4 of 4

Totalflow Standard Meter Events Report (Report Code: 310) page 1 Printed date: 12/20/2002

Meter: 646258

1

Location: SWEET THING #2 (CISCO)

STATE :

PRODUCER:

Collection Time: 10/01/1999 13:25:27 Firmware Revision: EH SYSTEM: LEASE: OPERATOR:

OPERATOR: BUYER: Effective dates: 06/01/1999 thru 09/01/1999 Date/Time Description 0

Date/Time	Description	Old Value	New Value	Seq
AF /01 /00 13.55.00	cita Mada		-2 0000	
06/16/99 14:15:00	Site Code		-165.0000	
06/16/99 14:19:00	DP calib check (In H2O)	0.0000	0.0313	
06/16/99 14:21:00	DP calib check (In H2O)	15.0000	15.0313	
06/16/99 14:22:00	DP calib check (In H2O)	45.0000	45.0313	
06/16/99 14:24:00	DP calib check (In H2O)	75.0000	75.0313	
06/16/99 14:24:00	DP calib check (In H2O)	105.0000	105.0000	
06/16/99 14:25:00	DP calib check (In H2O)	130,0000	120.0625	
06/16/99 14:27:00	DP calib check (In H2O)	90.0000	90.0313	
06/16/99 14:29:00	DP calib check (In H2O)	60.0000	60.0000	
06/16/99 14:30:00	DP calib check (In H2O)	30.0000	30.1250	
05/16/99 14:31:00	DP calib check (In H2O)	30.0000	30.0625	
06/16/99 14:31:00	DP Calld Check (In M20)	0.0000 17 6938	17 5938 17 5938	
06/16/99 14:37:00	SP calib check (PSIA)	112.5938	112.6875	
06/16/99 14:38:00	SP calib check (PSIA)	512.5938	512.6563	
06/16/99 14:40:00	SP calib check (PSIA)	1012.5938	1012.6563	
06/16/99 14:40:00	SP calib check (PSIA)	12.5938	12.6563	
06/16/99 14:46:00	Bite Code		-165.0000	
06/16/99 16:02:00	Site Code		-3.0000	
07/02/99 17:49:00	Site Code		-3.0000	
07/20/99 09:27:00	Site Code		-165.0000	
07/20/99 09:31:00	DP calib check (In H2O)	0,0000	0.1563	
07/20/99 09:35:00	DP callb check (In H2O)	45 0000	15.2500	
07/20/99 09:37:00	DP calib check (In H2O)	75.0000	75.1563	
07/20/99 09:38:00	DP calib check (In H2O)	105.0000	105.1563	
07/20/99 09:39:00	DP calib check (In H2O)	150.0000	150.1250	
07/20/99 09:40:00	DP calib check (In H2O)	120.0000	120.1563	
07/20/99 09:41:00	DP calib check (In H2O)	90-0000	90.0625	
07/20/99 09:41:00	DP calib check (In H2O)	30.0000	30.1875	
07/20/99 09:43:00	DP calib check (In H2O)	0.0000	0.1563	
07/20/99 09:44:00	DP low calib (In H2O)	0.0000	0.0000	
07/20/99 09:44:00	Site Code		-1.0000	
07/20/99 09:47:00	DP low callb (In H2C) DP bich salib (In H2C)	0.0000	0.0000 150 0000	
07/20/99 09:47:00	DP mid calib (In H2O)	75.0000	75.0000	
07/20/99 09:48:00	DP calib check (In H2O)	0.0000	0.0000	
07/20/99 09:49:00	DP calib check (In H2O)	15.0000	15.0313	
07/20/99 09:50:00	DP calib check (In H2O)	45.0000	45.0313	
07/20/99 09:51:00	DP callb check (In H2O)	105 0000	105.0000	
07/20/99 09:53:00	DP calib check (In H2O)	150.0000	150.0625	
07/20/99 09:55:00	DP calib check (In H2O)	120.0000	120.0625	
07/20/99 09:55:00	DP calib check (In H2O)	90.0000	90.0000	
07/20/99 09:56:00	DP calib check (In H2O)	60.0000	50.0000	
07/20/99 09:57:00	DF gallb check (In H2O)	30.0000	30.0625	
07/20/99 09:57:00	SP callb check (In A20) SP callb check (PSIA)	12.6875	12.7188	
07/20/99 10:01:00	SP calib check (PSIA)	402.6875	402.7500	
07/20/99 10:02:00	SP calib check (PSIA)	512.6875	512.7813	
07/20/99 10:03:00	SP calib check (PSIA)	1012.6875	1012.5313	
07/20/99 10:09:00	Temperature bias (Deg F)	0.3000	0.0000	
07/20/99 10:13:00	Site Code		-165.8000	
07/20/99 10:17:00	Reset time and date	7/20/99	10:10:00	
08/03/99 12:11:00	Site Code		-3.0000	
09/01/99 12:17:00	Site Code		-3.0000	
03/01/99 12:20:00 09/01/99 12:20:00	FD Dwifige Diemeker (Techarl	115,1380	433,5049	
99191199 18:2010U	AFFFFCE REGUELET (THATER)	0.,	4-4-9	

Tten 4 B lof 3 Daily Flow Data

Thu Dec 19 22:47:28 2002 TOTALFLOW Archive Report page 2 Meter: 646258 SWEET THING #2 (CISCO)

SP Tf Volume PSIA Deg F MCF Integral DP Energy Date Flow Time : In H2O MMBTU Percent
 222.38
 347.00
 80.66
 939.121
 1049.94

 221.91
 199.31
 75.06
 698.740
 781.19

 197.03
 206.00
 79.81
 308.451
 344.85

 158.66
 361.97
 79.38
 812.798
 908.71
 1049.94 285.934 100.00 08/01/99 08/02/99 216.413 100.00 08/03/99 96.042 57.50 908.71 728.30 158.66 221.69 08/04/99 246.418 100.00 651.430 74.05 08/05/99 172.59 100.00 202.572 79.94 83.34 82.22 507.607 567.50 160.163 08/06/99 222.94 107.94 100.00 -
 197.343
 220.63

 789.600
 682.77

 637.752
 713.01
 08/07/99 100.75 399.56 61.274 69.50 08/08/99 100.00 · 100.00 · 100.00 · 172.25 318,72 240.554 85.84 223.38 168.16 08/09/99 198,661 100.00 -479.220 535.77 434.542 485.82 97.00 82.44 223.47 08/10/99 151.760 221.72 100.53 83.72 08/11/99 137,477 90.00 · 514.043 574.70 113.8B 86.26 162.062 08/12/99 224.34 100.00 -08/13/99 469.852 525.29 100.00 · 224.56 93.84 87.03 149.006 100.00 -OB/14/99 223.91 92.56 82.97 467.547 522.72 148.317 08/15/99 92.28 87.03 465.552 520.49 224.44 147.726 100.00 -08/16/99 224.56 91.44 87.47 463.199 517.86 147.031 100.00 -223.03 225.50 95.16 08/17/99 184.09 219.161 245.02 68.503 48.00 . 223,382 149.775 113.701 86.09 08/18/99 223.66 723.123 808.45 100.00 . 100.00 -08/19/99 218.81 99.75 86.00 473.204 529.04 363.618 08/20/99 152.66 200.22 87.03 406.53 68.5D · 86.59 150.16 08/21/99 29.31 197.482 220,79 60.753 100.00 . 08/22/99 179.420 88,81 82,66 55.503 32,72 200.59 100.00 124.078 334.72 77.69 08/23/99 138.72 26.13 37.785 72.00 3.69 359.06 72.84 7.207 08/24/99 8.06 2.155 6.00 -0.00 12.47 77.91 13.31 81.59 08/25/99 0.00 0.000 0.000 0.00 --1.59 72.59 86 57 0.000 08/26/99 0.00 0.00 0.000 0.00 -427.78 495.064 08/27/99 158.28 553.48 148.957 55.50 . 426.13 215.505 08/28/99 103.59 715.028 799.40 100.00 -08/29/99 96.06 428.31 86.38 691**.579** 773.19 208.335 100.00 . 84.47 407.28 92.50 · 08/30/99 13.66 206.06 184.311 55.468 2.00 426.25 93.38 08/31/99 0.079 0.09 0.024 0.00 ------_____ ---------_____ Monthly: 146.86 218.89 83.04 13210.153 14768.95 4091.259 79.98 · DP Percent Low:1.13Percent High:56.16Min:n/aMax:SP Percent Low:0.00Percent High:0.00Min:n/aMax:Tf Percent Low:n/aPercent High:n/aMin:n/aMax: n/a

Backflow: 0.02 I Mult. Avg: 3024.417

Meter is 150 "X 1000 psia

n/a n/a Daily Flow Data

Thu Dec 19 22:47:03 2002 TOTALFLOW Archive Report page 2 Meter: 646258 SWEET THING #2 (CISCO)

Date	DP In H20	SP PSIA	Tf Deg F	Volume MCF	Energy MMBTU	Integral	Flow Time a Percent b
07/01/99	0.00	12.97	97.28	0.000	0.00	0,000	0.00 -
07/02/99	0.00	12.69	89.19	0.000	0.00	0.000	0.00 -
07/03/99	0,00	12.56	76,81	0_000	0.00	0.000	0.00 -
07/04/99	0.00	12.75	79.69	0.000	0.00	0,000	0.00 -
07/05/99	0.00	12.81	81,72	0.000	0.00	0.000	0.00 -
07/06/99	0.41	12.72	77.84	0.006	0.01	0.002	0.00 -
07/07/99	0.00	12.63	82.06	0.000	0.00	0.000	0.00 -
07/08/99		944.09	80.16	24 9.469	278.91	71.775	73.00 -
07/09/99	204.41	453.88	61.84	982.024	1097.90	296.638	100.00 -
07/10/99	/ 219.97	197.25	60.78	707.046	790.48	218.657	100.00 -
07/11/99	/ 221.16	165.69	74.56	638.103	713.40	198.650	100.00 -
07/12/99	222.00	119.75	77.72	536.119	599.38	168.576	100.00 -
07/13/99	222.97	108.69	80.47	50 9.452	56 9 .57	160.709	100.00 -
07/14/99	223.34	102.78	79.63	495.381	553.84	156.557	100.00 -
07/15/99	89.00	392.03	77.00	373.474	417.54	113.421	86.00 -
07/16/99	145.81	. 346.38	62.38	758.339	847.82	230.391	100.00 -
07/17/99	/ 221.88	193.09	76.56	689.223	770.55	213.685	100.00 -
07/18/99	219.50	133.22	80.78	552.346	617.52	173.190	99.0D -
07/19/99 <	0.69	250.53	75.13	0.001	0.00	0.000	0.00 -
07/20/99	0.00	401.38	72.94	0.000	0.00	0.000	0.00 -
07/21/99	0.00	400.34	79.16	0.000	0.00	0.000	0.00 -
07/22/99	223.94	188.81	76.34	616.424	689.16	191.260	94,50 -
07/23/99	148.03	150.69	85.84	433.508	484.66	135.373	29.00 -
07/24/99	223.50	124.78	80.41	548,170	612.85	172.197	100.00 -
07/25/99	221.22	129.72	86,64	551.1/5	616.21 526.21	1/2.996	100.00 -
07/26/99	203.56	198.50	85.47	649.647 EAD 28E	720.53	201,161	100.00 -
07/27/99	223.50		85.45 67 69	340.303 306 708	004.13	109.850	100.00 -
4//20/33 07/20/00		9 423,10 E00 31	77 04	200.700	231.10	23.440	33.00 -
Q7/29/99	10.01 50 rg	. 377.31 . 575.54	77.74	740 683	01.0J	21.07U	10,50 -
07/30/33	91,03		80,13	713,003	802 36	223.213	37.50 -
V//31/33	20,47		04.74			413.13/	- 00.001
Monthly:	115.37	235.58	80.49	11577.59 1	12943.75	3568.778	62.85 -
DP Percent	Low: 5.39	Percent Hi	.gh: 46.53	Min: n.	/a Max:	n/a	
SP Percent	Low: 0.00	Percent Hi	gh: 0.00	Min: n	a Max:	n/a	
Tf Percent	Low: n/a	Percent Hi	gh: n/a	Min: n	/a Max:	n/a	

Backflow: 0.00 I Mult. Avg: 2446.340

Meter is 150" × 1000 psia