# GW - <u>162</u>

## H2S CONTINGENCY PLAN

#### Chavez, Carl J, EMNRD

From: Sent: To: Subject: Chavez, Carl J, EMNRD Tuesday, September 13, 2011 7:34 AM Jamerson, Kelly D H2S Contingency Plan Receipt and Update

Mr. Jamerson:

Good morning. The OCD has received the [H2S] analytical data confirming DCP Midstream, L.P.'s initial determination that OCD H2S Contingency Plans do not apply to the following gas plant facilities:

Eddy County:

• East Carlsbad Gas Plant (GW-069)

Lea County:

- Lee Gas Plant (closed)
- Antelope Ridge Gas Plant (GW-162)
- Hobbs Gas Plant (GW-175)
- Zia Gas Plant (145)

Analytical data from DCP to date has not been received for the following gas plants:

Eddy County:

GW- 237	DCP MIDSTREAM, LP	DUKE PECOS DIAMOND	Gas Plant	A	Eddy	DUKE PECOS DIAMOND	G-3- 18 S- 27 E
	-	GP				GP	

Lea County:

GW-	DCP	DUKE	Gas	A	04/25/2009	Keith	Lea	DUKE	H-5-
016	MIDSTREAM,	EUNICE	Plant			Warren		EUNICE	21 S-
1	LP	GP				303-605-		GP	36 E
						2176			

The OCD will be expecting the data soon for the above gas plants. Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 Office: (505) 476-3490 Fax: (505) 476-3462 E-mail: CarlJ.Chavez@state.nm.us Website: <u>http://www.emnrd.state.nm.us/ocd/</u> "Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at: http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental)



RECEIVED OCD Hobbs, NM 88240 2011 SEP 1.2 P 11:58

September 9, 2011

Mr. Carl J. Chavez-Environmental Engineer Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Request for H2S Contingency Plans for DCP Midstream

Dear Mr. Chavez:

This letter is in response to your letter dated July 27, 2011 in regards to the quality of gas processed at Antelope Ridge, Hobbs, and Zia Plants located in Lea County, NM.

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Attached are the gas analyses that show the gas being processed contains no hydrogen sulfide.

Please contact me should you have any questions at (575) 397-5539.

Sincerely,

Kelly Jamerson SENM Asset Director

Enclosure

DCP MIDSTREAM 1625 W. MARLAND HOBBS, NM 88240

#### **Monthly Meter Analysis**

September, 2011



13212003 Antelope Ridge Inlet

Component	Mole %	GPMs	Mass %	Property	Total Sample	C6 Plus Fractior
Carbon Dioxide, CO2	0.9596		1.9878	Pressure Base	14.730	
Nitrogen, N2	3.5765		4.7159	Temperature Base	60.00	
Methane, C1	76.4218		57.7065	HCDP @ Sample Pressure		
Ethane, C2	10.4169	2.7947	14.7433	Cricondentherm		
Propane, C3	5.4857	1.5161	11.3858	HV, Dry @ Base P, T	1213.31	
iso-Butane iC4	0.6739	0.2212	1.8436	HV, Sat @ Base P, T	1192.19	
n-Butane, nC4	1.5200	0.4807	4.1584	HV, Sat @ Sample P, T		
iso-Pentane, iC5	0.3643	0.1337	1.2372	Relative Density	0.7357	
n-Pentane, nC5	0.3315	0.1205	1.1258	Fws Factor		
Hexanes Plus, C6+	0.2498	0.1094	1.0957	Free Water GPM		
Water, H2O			0.0000	Stock Tank Condensate Brls/mm		
Hydrogen Sulfide, H2S	0.0000		0.0000	26 # RVP Gasoline	0.523	
Oxygen, O2	0.0000		0.0000	Testcar Permian	0.651	
Carbon Monoxide, CO			0.0000	Testcar Panhandle	0.547	
Hydrogen, H2			0.0000	Testcar Midcon	0.520	
Helium, He	0.0000		0.0000			
Argon, Ar	•		0.0000			
Totals	100.0000	5.3763	100.0000			

Sample								
Date:	10/11/2010	Pressure:	521.0					
Type:	Spot	Temperature:	74.0					

\*\*\* End of Report \*\*\*

### **Monthly Meter Analysis**

September, 2011



13312006 HOBBS PLANT INLET

Mole %	GPMs	Mass %	Property	Total Sample	C6 Plus Fraction
0.4770		1.0349	Pressure Base	14.730	
1.5842		2.1878	Temperature Base	60.00	
81.7460		64.6510	HCDP @ Sample Pressure		
9.1589	2.4567	13.5769	Cricondentherm		
4.1881	1.1573	9.1044	HV, Dry @ Base P, T	1206.43	
0.5536	0.1817	1.5863	HV, Sat @ Base P, T	1185.44	
1.1859	0.3750	3.3980	HV, Sat @ Sample P, T		
0.3097	0.1136	1.1016	Relative Density	0.7023	
0.2898	0.1054	1.0308	Fws Factor		
0.5068	0.2218	2.3283	Free Water GPM		
			Stock Tank Condensate Brls/mm		
		0.0000	26 # RVP Gasoline		
0.0000		0.0000	Testcar Permian	0.642	
			Testcar Panhandle	0.605	
			Testcar Midcon	0.576	
0.0000		0.0000			
	1.5842 81.7460 9.1589 4.1881 0.5536 1.1859 0.3097 0.2898 0.5068 0.0000 0.0000	1.5842   81.7460   9.1589 2.4567   4.1881 1.1573   0.5536 0.1817   1.1859 0.3750   0.3097 0.1136   0.2898 0.1054   0.5068 0.2218   0.0000 0.0000	1.58422.187881.746064.65109.15892.456713.57694.18811.15739.10440.55360.18171.18590.37503.0970.11361.10160.28980.10540.50680.22182.32830.00000.00000.00000.0000	1.5842 2.1878 Temperature Base   81.7460 64.6510 HCDP @ Sample Pressure   9.1589 2.4567 13.5769 Cricondentherm   4.1881 1.1573 9.1044 HV, Dry @ Base P, T   0.5536 0.1817 1.5863 HV, Sat @ Base P, T   1.1859 0.3750 3.3980 HV, Sat @ Sample P, T   0.3097 0.1136 1.1016 Relative Density   0.2898 0.1054 1.0308 Fws Factor   0.5068 0.2218 2.3283 Free Water GPM   0.0000 0.0000 26 # RVP Gasoline Testcar Permian   0.0000 0.0000 Testcar Panhandle Testcar Midcon	0.4770   1.0349   Pressure Base   14.730     1.5842   2.1878   Temperature Base   60.00     81.7460   64.6510   HCDP @ Sample Pressure   60.00     9.1589   2.4567   13.5769   Cricondentherm     4.1881   1.1573   9.1044   HV, Dry @ Base P, T   1206.43     0.5536   0.1817   1.5863   HV, Sat @ Base P, T   1185.44     1.1859   0.3750   3.3980   HV, Sat @ Sample P, T   0.7023     0.3097   0.1136   1.1016   Relative Density   0.7023     0.2898   0.1054   1.0308   Fws Factor   0.7023     0.5068   0.2218   2.3283   Free Water GPM   Stock Tank Condensate Brls/mm     0.0000   0.0000   0.0000   Testcar Permian   0.642     0.0000   0.0000   Testcar Panhandle   0.605     0.0000   0.0000   0.576   0.576

Samp	ie		
Date:	08/09/2011	Pressure:	401.0
Type:	Spot	Temperature:	82.0

\*\*\* End of Report \*\*\*

## **Monthly Meter Analysis**

January, 2009



2511-01-03 ZiA Total Inlet

Component	Mole %	Ideal GPMs @ 14.696	Mass %	Property	Total Sample	C10 Plus Fraction
Carbon Dioxide, CO2	0.6078			Pressure Base		
Nitrogen, N2	1.1245			Temperature Base	60.00	
Methane, C1	85.1134			HCDP @ Sample Pressure		
Ethane, C2	7.9403	2.1181		Cricondentherm		
Propane, C3	3.3635	0.9243		HV, Dry @ Base P, T		
iso-Butane, iC4	0.4557	0.1487		HV, Sat @ Base P, T	1130.62	
n-Butane, nC4	0.8244	0.2592		HV, Sat @ Sample P, T		
iso-Pentane, iC5	0.2272	0.0829		Relative Density	0.6679	
n-Pentane, nC5	0.1951	0.0705		Fws Factor		
Hexanes, C6	0.1482	0.0608		Free Water GPM		
Heptanes, C7	0.0000	0.0000		Stock Tank Condensate Brls/mm		
Octanes, C8	0.0000	0.0000		26 # RVP Gasoline		
Nonanes, C9	0.0000	0.0000		Testcar Permian		
Decanes Plus, C10+	0.0000	0.0000		Testcar Panhandle		
Water, H2O	0.0000			Testcar Midcon		
Hydrogen Sulfide, H2S						
Oxygen, O2	0.0000	1				
Carbon Monoxide, CO	0.0000	•			•	
Hydrogen, H2	0.0000					
Helium, He	0.0000					
Argon, Ar	0.0000					

	Totals	100.0001 3.6645		0.0000
Samp Date: Type:	le 01/31/2009	Press Temp	sure: perature:	0.0 0.0

\*\*\* End of Report \*\*\*

New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

John H. Bemis Cabinet Secretary

**Brett F. Woods, Ph.D.** Deputy Cabinet Secretary **Jami Bailey** Division Director Oil Conservation Division



July 27, 2011

Mr. Kelly Jamerson, Director – SENM Asset DCP Midstream 1625 West Marland Street Hobbs, New Mexico 88240

Dear Mr. Jamerson:

#### Re: H<sub>2</sub>S Contingency Plans Gas Plants: Antelope Ridge, Hobbs, Lee and Zia (Lea County)

The New Mexico Oil Conservation Division (OCD) is in receipt of your letters (letters) dated June 2, 2011 for the above listed gas plant facilities in the OCD Hobbs District. The letters were sent to the OCD to address the OCD's request for  $H_2S$  Contingency Plans (CP) for DCP Midstream's Gas Plants.

The OCD notices from your letters that the Lee Gas Plant no longer exists. However, the Antelope Ridge, Hobbs and Zia Gas Plants are in operation. The OCD has reviewed and considered the statements made in the letters that the facilities are "sweet gas processing plants" and influent gas into the facilities does not contain  $H_2S$ .

The OCD hereby requires an analyses for H2S concentrations (ppm) in the influent pipelines before any separation or treatment into the facilities with maximum flow rate in the pipeline and ROE calculations for any gas with  $[H_2S]$  exceeding 100 ppm to satisfy the OCD's  $H_2S$  Regulations (§ 19.15.11 NMAC). This should determine whether the facility is required to submit an H2S CP. The OCD requires that H2S CPs and/or site-specific data verifying that a CP(s) are not needed must be submitted within 60-days from the date of this letter or by COB on September 22, 2011.

Please contact me if you have questions at (505) 476-3490. Thank you.

Sincerely,

Carl J. Chavez Environmental Engineer

File: GWs-002, 069, 145, and 175 ("H2S Contingency Plan" Thumbnail)

xc: OCD Environmental Bureau OCD District Office

> Oil Conservation Division 1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3440 • Fax (505) 476-3462 • <u>www.emnrd.state.nm.us/OCD</u>





RECEIVED OCD

June 2, 2011

DCP Midstream 1625 West Marland Street Hobbs, NM 88240

Mr. Daniel Sanchez State of New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

This letter is in reference to your letter dated March 1, 2011 (copy attached) which referred to the DCP Antelope Ridge Gas Processing Plant and provided requirements for H2S contingency plans for facilities processing sour gas (100 ppm or greater).

Please be advised that the DCP Antelope Ridge Gas Processing Plant (<u>GW-162</u>) is a sweet gas processing plant and gathering systems feeding this plant do not contain hydrogen sulfide..

If additional information is required, please advise.

Sincerely,

Kelly Jamerson Director – SENM Asset



Susana Martinez Governor **Daniel Sanchez** Brett F. Woods, Ph.D. Acting Division Director Acting Cabinet Secretary Oil Conservation Division MAR 07 2011 March 1, 2011 DCP Midstream Environment Health & Safety Mr. Kelly Jamerson Asset Manager

DCP Midstream, LP 370 17th Street, Suite 2500 Denver, CO 80202

Dear Mr. Jamerson:

#### Re: Duke Antelope Ridge Gas Plant (GW-162) Oil and Gas Facilities/Operations that may Vent and/or Flare H<sub>2</sub>S Gas

The New Mexico Oil Conservation Division (OCD) is writing to operators of the above-referenced types of facilities or operations that may have New Mexico Environmental Department (NMED) - Air Quality Bureau (AOB) Oil and Gas type Permits. The purpose of this communication is to inform operators of such facilities regarding OCD Rules that may be applicable to gas plant operators and/or oil and gas facilities/operations in the hope that it provides some clarification regarding the applicability of these rules, and to ultimately increase overall compliance

In New Mexico, the OCD Rules that pertain to Hydrogen Sulfide ( $H_2S$ ) Gas are provided at § 19.15.11 et seq. NMAC (Hydrogen Sulfide Gas). The OCD Oil and Gas Rules that address "No-Flare" and the OCD Form C-129 process are provided at § 19.15.7.37 et seq. NMAC (Application for Exception to No-Flare). Gas plants have gas gathering pipelines with meters connected to operators who then either sell or vent casinghead gas into the gas gathering pipelines that feed into the plants. The OCD Rules that pertain to "Casinghead Gas" are provided at § 19.15.18.12 et seq. NMAC (Production Operating Practices).

This letter was precipitated by a recent event where a gas plant operator shut-in a "gas gathering pipeline." This "shutting-in" of the pipeline impacted approximately thirty individually-metered operators who may have continued operating instead of "shutting-in" their well(s). In spite of the fact that approximately thirty operators were impacted, the OCD observed that only one of those thirty operators contacted the OCD via Form C-129 as required under the OCD Rules to obtain approval of their application for an "exception to no-flare." (The operator initially had contacted the OCD to request approval to vent  $H_2S$  gas into the air rather than shut-in the well.) The OCD has serious public safety concerns when operators do not properly shut-in their wells when gas gathering pipelines and/or meters are shut-in, especially where the wells are near populated and/or agricultural areas due to the potential for loss of life from toxic gas.

In subsequent communications with gas plant operators who flare gas, the OCD discovered that the operators were under the impression that if their facility has an NMED- AQB Construction Permit which includes a provision to flare/emit gas, then this is all that is needed to operate in New Mexico. This is actually only partially

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



Susana Martinez Governor

Brett F. Woods, Ph.D. Acting Cabinet Secretary Daniel Sanchez Acting Division Director Oil Conservation Division

March 1, 2011



Mr. Kelly Jamerson Asset Manager DCP Midstream, LP 370 17<sup>th</sup> Street, Suite 2500 Denver, CO 80202

Dear Mr. Jamerson:

## Re: Duke Antelope Ridge Gas Plant (GW-162) Oil and Gas Facilities/Operations that may Vent and/or Flare H<sub>2</sub>S Gas

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Mr. Jamerson DCP Midstream, LP March 1, 2011 Page 2 of 2

correct because operators are also required to comply with the requirements set out in the OCD Rules regarding flaring and venting. For example, in the situation where a gas plant operator has notified connected well operators of a gas-gathering pipeline shut-down, each of those well operators is required to shut-in its well(s) or to obtain OCD District Supervisor approval to flare via an OCD C-129 Form. Operators who do not comply are illegally venting and/or flaring gas under OCD Rules.

In addition, gas plants and/or oil and gas operators may be required to satisfy OCD § 19.15.11 et seq. NMAC (Hydrogen Sulfide Gas) Contingency Plan requirements for facilities and wells in cases where 100 ppm or greater  $H_2S$  concentrations may impact public areas. OCD records indicate that DCP Midstream, LP does not currently have an  $H_2S$  Contingency Plan (CP) on file with the OCD. If you do not have an approved CP under § 19.15.11 et seq. NMAC (Hydrogen Sulfide Gas) for your gas plant yet, please submit your CP to the OCD Environmental Bureau in Santa Fe on or before August 11, 2011. (The OCD notes that it is aware of some operators who have recently submitted CPs to the OCD that are currently under review. Please advise if this is the case for DCP Midstream.)

The OCD recognizes that when multiple sets of Rules, Regulations and Statutes apply, it can sometimes be tricky to definitively determine which requirements apply, to whom and in what circumstances. Operators must, however, take all care to ensure that they are at all times operating in compliance with <u>all</u> applicable state, federal and/or local rules and regulations. In this instance, this means that operators are subject not only to the requirements imposed by the NMED-AQB permitting structure, but also to those set forth in the OCD Rules.

We hope that this communication has helped to clarify the issue regarding the applicability of the OCD Rules in these situations, regardless of the existence of a valid NMED-AQB permit. Please contact Carl Chavez of my staff at (505) 476-3490 if you have questions or need assistance with the CP. The OCD looks forward to bringing your facility into compliance with OCD Rules if it is not currently already in compliance. Thank you for your cooperation in this matter.

Sincerely,

Daniel Sanchez,

Compliance & Enforcement Manager

xc: Richard Goodyear, NMED- AQB OCD Environmental Bureau OCD District Offices