



# Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

For

New Mexico Federal # 4

620'FSL & 790' FEL, Sec-24, T-18S R-33E

Lea County NM

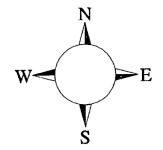
Bureau of Land Management RECEIVED

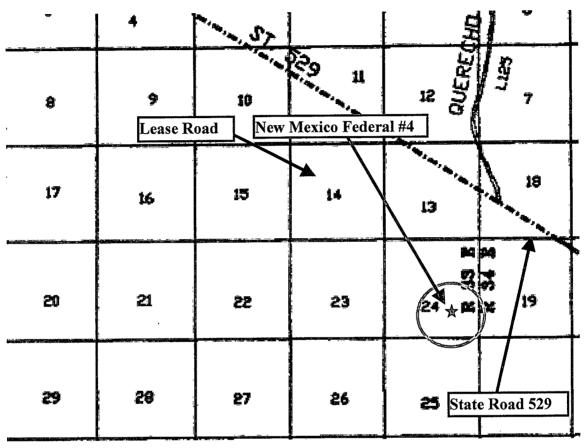
OCT 16 2009

Carlsbad Field Office Carlsbad, N.M.

## New Mexico Federal # 4

This is an open drilling site.  $H_2S$  monitoring equipment and emergency response equipment will be used within 500' of zones known to contain  $H_2S$ , including warning signs, wind indicators and  $H_2S$  monitor.





Assumed 100 ppm ROE. =  $3000^\circ$  (Radius of Exposure) 100 ppm H2S concentration shall trigger activation of this plan. ..

## Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated NorthEast on lease road to State Road 529. Crews should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE There are no homes or buildings in or near the ROE.

# **Assumed 100 ppm ROE = 3000'**

100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

## **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

## Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

## Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

## **Contacting Authorities**

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

## **Devon Energy Corp. Company Call List**

Artesia (575)	Cellular	Office	<u>Home</u>
Foreman–Roger Hernandez. Asst. Foreman – Ernie Durar	748-5238	748-0169	396-7169
Don Mayberry	748-5235	748-0164	746-4945
Montral WalkerEngineer – Ron Hays(40	390-5182 5) 464-4214(	748-0193 (405) 552-8150(	936-414-6246 (405) 359-7015

# **Agency Call List**

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<u>Lea</u>	Hobbs	
<b>County</b>	State Police	
<u>(575)</u>	City Police	
	Sheriff's Office	
•	Ambulance911	
	Fire Department	
	LEPC (Local Emergency Planning Committee)	
	NMOCD	
	US Bureau of Land Management	
<b>Eddy</b>	Carlsbad	
County	State Police	
(575)	City Police	
	Sheriff's Office	
	Ambulance911	
	Fire Department	
	LEPC (Local Emergency Planning Committee) 887-3798	
	US Bureau of Land Management	
	New Mexico Emergency Response Commission (Santa Fe) (505)476-9	600
	24 HR(505) 827	-9126
	Netice of European Page Contant (Washington, DC) (800) 424	2802
	National Emergency Response Center (Washington, DC) (800) 424	-0002
	Emergency Services	
	Boots & Coots IWC1-800-256-9688 or (281) 93	31-8884
	Cudd Pressure Control(915) 699-0139 or (915) 56	63-3356
	Halliburton(575) 746-2757	
	B. J. Services(575) 746-3569	
Give	Flight For Life - Lubbock, TX(806) 743	-9911
GPS	Aerocare - Lubbock, TX(806) 747	-8923
position:	Med Flight Air Amb - Albuquerque, NM(575) 842	2-4433
r	Lifeguard Air Med Svc. Albuquerque, NM(575) 272	

Prepared in conjunction with Wade Rohloff of;



**Operators Representative:** 

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Ron Hays Operations Engineer Don Mayberry Superintendent

Devon Energy Production Company, L.P. 20 North Broadway Oklahoma City, OK 73102-8260 Devon Energy Production Company, L.P. Post Office Box 250
Artesia, NM 88211-0250

(405) 552-8150 (office) (405) 464-4214(cell) (505) 748-3371 (office) (505) 746-4945 (home)

#### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this 28th day of September , 2009.

Printed Name: Norvella Adams

Signed Name.
Position Title: Sr. Staff Engineering Technician

Address: 20 North Broadway, OKC OK 73102

Telephone: (405) 552-8198

Field Representative: Roger Hernandez

Address: 6478 Seven Rivers Hwy, Artesia, NM

Telephone: 575-748-0169

E-mail: norvella.adams@dvn.com