HOBBS OCD

Hydrogen Sulfide Drilling Operations Plan Bevo 11 Federal #4H Adventure Exploration Partners II Unit P, Section 11, T22S-R33E, Lea County, NM

APR 16 2014

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Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- 1. Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- 2. Evacuate any public places encompassed by the 100 ppm ROE.
- 3. Be equipped with H₂S monitors and air packs in order to control the release.
- 4. Use the "buddy system" to ensure no injuries occur during the response.
- 5. Take precautions to avoid personal injury during this operation.
- 6. Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- 7. Have received training in the:
 - A. Detection of H₂S, and
 - B. Measures for protection against gas,
 - C. 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 (SO₂). 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 H₂S and SO₂

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
Hydrogen Sulfide	H₂S	1.189 Air=l	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=l	2 ppm	N/A	1000 ppm

Contacting Authorities

Adventure Exploration Partners II personnel must liaise 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 including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Adventure Exploration Partners II response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

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- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H₂S Detection and Alarm Systems:
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers:
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
- 4. Condition Flags and Signs:
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only emergency personnel admitted to location.
- 5. Well control equipment:
 - A. See Exhibit A-1 and A-2
- 6. Communication:
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing:
 - A. No DSTs or cores are planned at this time.
- 8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

H-S Contingency Plan Emergency Contacts

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Bevo 11 Federal #4H Adventure Exploration Partners II LLC P-11-22S-33E 330' FSL & 890' FEL

Adventure Exploration		432-684-800		
500 W Texas Aven	e Suite 1000			
Key Personnel				
Name	Title	Office		Mobile
Hal Lee	VP of Operations	432-684-8006		432-664-9040
David Wantuck	Operations Manager	432-684-8006		432-528-2596
Paul locas	President	432-684-8006		432-638-7428
Keaton Waters	Geologist	432-684-8006		432-413-9280
Artesia				
Ambulance	۲۰ - «منابعه المالين، المالين، المالين، «منابعة منابعة منابعة المنابعة المنابعة المالينية». «الم	921		
State Police	· · · · · · · · · · · · · · · · · · ·	575-746-2703		
City Police		575-746-2703		
Sheriff's Office	575-746-9888	···		
Fire Department		575-746-2701		
Local Emergency Plan	575-746-2122			
New Mexico Dil Conse	575-748-1283			
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<u>Carlsbad</u> Ambulance		A 1 1		
	921			
State Police	575-885-3137			
City Police		575-885-2111		
Sheriff's Office	575-887-7551			
Fire Department	575-887-3798			
Local Emergency Plan	575-887-6544			
US Bureau of Land Ma	A Restaura	575-887-6544		
Santa Fe				
New Mexico Emergen	505-476-9500	.		
New Mexico Emergen	505-827-9126		an the and the second and se	
New Mexico State Eme	505-476-9635		where the ansate the second	
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Vational				
Vational Emergency Ro	sponse Center (Washington, D.C.)	800-424-8802		
viedical				
light for Life - 4000 24		805-743-9911		
erocare - R3, Box 49F	a sea sea a se	806-747-8923		
	301 Yale Blvd S.E., #D3; Afboguerque, NM	505-842-4433		
8 Air Med Service - 25	05 Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
Ither				
oots & Coots IWC		800-256-9688	or	281-931-8834
udd Pressure Control		432-699-0139	¢r	432-563-3356
president and the second s		575-746-2757		
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5M Choke Manifold Equipment



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