HOBBS OCD

JUN 1 8 2014

Hydrogen Sulfide Drilling Operations Plan Sun McKay Federal #3H Sec 10, T19S, R32E Lea County N.M.

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- 1. Company and contract personnel admitted on location should be trained by a qualified H₂S safety instructor to the recognize and handle following:
 - A. Characteristics of H₂S gas
 - 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 knowledge
 - E. Evacuation procedure, routes and first aid support
 - F. Proper use of 30 minutes Pressure-on-Demand Air Pack
- 2. Supervisory personnel will be trained in the following areas:
 - A. Effects of H2S on metal components.
 - B. Corrective action and shut in procedures, blowout prevention, and well control procedure.
 - C. Contents of Hydrogen Sulfide Drilling Operations Plan.
- 3. H₂S Detection and Alarm Systems (will be in place after setting surface casing and will not drill ahead without alarm system working)
 - A. H₂S detectors and audio alarm system to be located at bell nipple, shale shaker and on derrick floor or doghouse installed and maintained by a third party safety company.
 - B. Thirty minute self-contained work unit located in dog house and at briefing areas.
- 3. Windsock and/or Wind Streamers
 - A. Windsock at mud pit area (high enough to be visible)
 - B. Windsock on dog house (high enough to be visible)
- 4. Condition Flags and Signs
 - A. H₂S warning signs on lease access road into location
 - B. Flags displayed on sign at location entrance
 - 1. Green flag indicates "Normal Safe Conditions"
 - 2. Yellow Flag indicates "Potential Pressure and Danger"
 - 3. Red Flag indicates "Danger H₂S Present in High Concentrations" admit only emergency personnel
- 5. Well Control Equipment
 - A. See BOP, Choke, and Mud/Gas Separator exhibit.
 - B. Blow out preventers will be equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit. Annular type blowout preventer will also be in place. Supplemental fuel will be provided for flaring noncombustible gas.
- 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 radios or cell phones used to communicate off location or minimally in Drilling Foreman's trailer or living guarters
- 7. Drillstem Testing (not planned)
 - A. Exhausts watered
 - B. Flare line equipped with electric Igniter/propane pilot light in case gas reaches surface

C. If location near dwelling closed DST will be performed

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- 9. If H₂S encountered, mud system shall be addressed to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers, if necessary. pH will be maintained at 10, to minimize h2S in the system. Hydrogen sulfide scavengers will also be used to minimize hazards while drilling the well.
- 10. Mud program: pH of 10 will be maintained with additives to minimize hazards of H2S. H2S scavengers will also be used to minimize effects on tubulars and well control equipment and control effects of H2S on metallurgy.

PUBLIC PROTECTION PLAN FOR EMERGENCY CONTACTS

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NADEL AND GUSSMAN Permian, LL	<u>C</u> (432) 682-4429	
Company Personnel		
Jason Goss Drilling Enginee		
Kurt Hood Foreman	512-784-2613 575-513-1499	
	575-746-1428	
ARTESIA N.M.		
Ambulance	911	
State Police	575-748-9718	
City Police	575-746-5000	
Sheriff's Office	575-746-9888	10 5054
Fire Department	575-746-5050 or 575-74	46-5051
N.M.O.C.D	575-748-1283	
CARLSBAD N.M.		
Ambulance	911	
State Police	575-885-3138	
City Police	575-885-2111	
Sheriff's Office	575-887-7551	25 0444
Fire Department Carlsbad BLM	575-885-3125 or 575-88	35-2111
Carisdad BLM	575-234-5972	
HOBBS N.M.		
Ambulance	911	
State Police	575-392-5580	
City Police	575-397-9265	
Sheriff's Office	575-396-3611	
Fire Department	575-397-9308	
N.M.O.C.D	575-393-6161	
Hobbs BLM	575-393-3612	
Flight for Life (Lubbock Tx)	806-743-9911	
Aerocare (Lubbock Tx)	806-747-8923	
Med flight air Ambulance (Albuq NM)	505-842-4433	
SB air Med Services (Albuq NM)	505-842-4949	
Wild Well Control	281-784-4700	Emergency Number 24
Boots & Coots IWC	281-931-8884	Emergency Number 24
Cudd Pressure Control	713-849-2769	Emergency Number 24
BJ Services (Artesia NM)	575-746-3569	
(Hobbs NM)	575-392-5556	
New Mexico Emergency Response Co	mmission (Santa Fe) 5	505-476-9600
24 Hour		505-827-9126
New Mexico State Emergency Operations Center		505-476-9635

LOCATION/BATTERY DIAGRAM Sun McKay Federal #3H Section 10, T-19S, R-32E, Lea County NM

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