

30-025-41041

HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

HOBBS OCD

Assumed 100 ppm ROE = 3000'

DEC 06 2011

100 ppm H₂S concentration shall trigger activation of this plan.

RECEIVED

Emergency Procedures

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

- o Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- o Evacuate any public places encompassed by the 100 ppm ROE.
- o Be equipped with H₂S monitors and air packs in order to control the release.
- o Use the "buddy system" to ensure no injuries occur during the response
- o Take precautions to avoid personal injury during this operation.
- o Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- o Have received training in the
 - o Detection of H₂S, and
 - o 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 (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 this is an ignition of the gas.

Characteristics of H₂S and SO₂

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

Contacting Authorities

Seely Oil Company 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 including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Lime Rock Resources response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

MAR 06 2013

H₂S CONTINGENCY PLAN EMERGENCY CONTACTS

Company Office – Seely Oil Company 817-332-1377
Answering Service (During Non-Office Hours) 817-992-1737

Key Personnel

<u>Name</u>	<u>Title</u>	<u>Phone Number</u>
David Henderson	Production Engineer	817-332-1377 Cell: 817-992-1737
Mike Frazier	Production Supervisor	575-390-2171 Cell

Ambulance	911
State Police	575-746-2703
City Police	575-746-2703
Sheriff's Office	575-746-9888
Fire Department	575-746-2701
Local Emergency Planning Committee	575-746-2122
New Mexico Oil Conservation Division	575-748-1283

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Ambulance	911
State Police	575-8885-3137
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-887-3798
Local Emergency Planning Committee	575-887-6544
US Bureau of Land Management	575-887-6544

New Mexico Emergency Response Commission (Santa Fe)	505-476-9600
24 Hour	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635
National Emergency Response Center (Washington, DC)	800-424-8802

Other

Boots & Coots IWC	800-256-9688 or 281-931-8884
Cudd PressureControl	915-699-0139 or 915-563-3356
Halliburton	575-746-2757
B. J. Services	575-746-3569
Flight For Life – 4000 24 th St. Lubbock, Texas	806-743-9911
Aerocare – R3, Box 49F, Lubbock, Texas	806-747-8923
Med Flight Air Amb – 2301 Yale Blvd SE #D3, Albuquerque, NM	505-842-4433
S B Air Med Service – 2505 Clark Carr Loop SE, Albuquerque, NM	505-842-4949

FW: Scanned Docs

From: **David Henderson** (dhenderson@seelyoil.com)
Sent: Fri 10/07/11 9:44 AM
To: gr.smith1@hotmail.com
1 attachment
scan2011-10-07-112345.pdf (893.2 KB)

George:

Enclosed are the test results for the EK Penrose Sand Unit No. 501 and the McElvain Federal A No. 1(Unit letters 19 O and 30 A of 18S-34e respectfully).

David

From: Shellie Davis
Sent: Friday, October 07, 2011 10:23 AM
To: David Henderson
Subject: Scanned Docs

MOBILE ANALYTICAL LABORATORIES, INC.
 P. O. BOX 69210
 ODESSA, TEXAS 79769
 PHONE 432-337-4744 FAX 432-337-8781

ANALYSIS REPORT

COMPANY	FRONTIER ENERGY SERVICES	LAB NUMBER	3121
LEASE	FED CS #1 SWSE S.19	DATE SAMPLED	12/29/05
STATION	060-35-001	DATE RUN	02/13/06
OPERATOR	MALJAMAR	PRESS. PSIA	48.0
EFFECTIVE	01/01/06	TEMP. DEG. F	82
CYLINDER	041	SAMPLE	SPOT

COMPONENT	MOL %	GPM
NITROGEN	55.174	0.000
CARBON DIOXIDE	0.084	0.000
METHANE	27.461	0.000
ETHANE	6.574	1.747
PROPANE	5.801	1.589
ISO-BUTANE	0.884	0.288
N-BUTANE	2.014	0.631
ISO-PENTANE	0.615	0.224
N-PENTANE	0.510	0.184
HEXANES PLUS	0.867	0.376
H2S	0.016	0.000
TOTALS	100.000	5.039

ANALYSIS CALCULATED AT 14.65 PSIA & 60 DEG. F
 GROSS DRY BTU/CU. FT. 723
 GROSS WET BTU/CU. FT. 710
 CALC. REAL SP.GR. 0.9596
 C5+ GPM 0.784
 WATER CONTENT LBS/MMSCF
 H2S PPM 160

DISTRIBUTION: NOTES:
 JERRY WRIGHT

TOTAL SAFETY H2S SURVEY REPORT

Battery / Station Name : EK PSU #501

County : Lea Date : 9-30-11

Tank #1

BREATHING ZONE	<u>0 ppm</u>
LIP OF HATCH	<u>0 ppm</u>
VAPOR SPACE	<u>0 ppm</u>
TANK SIZE	

Tank #2

BREATHING ZONE	<u>0 ppm</u>
LIP OF HATCH	<u>0 ppm</u>
VAPOR SPACE	<u>0 ppm</u>
TANK SIZE	

Tank Well Tubing

BREATHING ZONE	
LIP OF HATCH	
VAPOR SPACE	<u>0 ppm</u>
TANK SIZE	

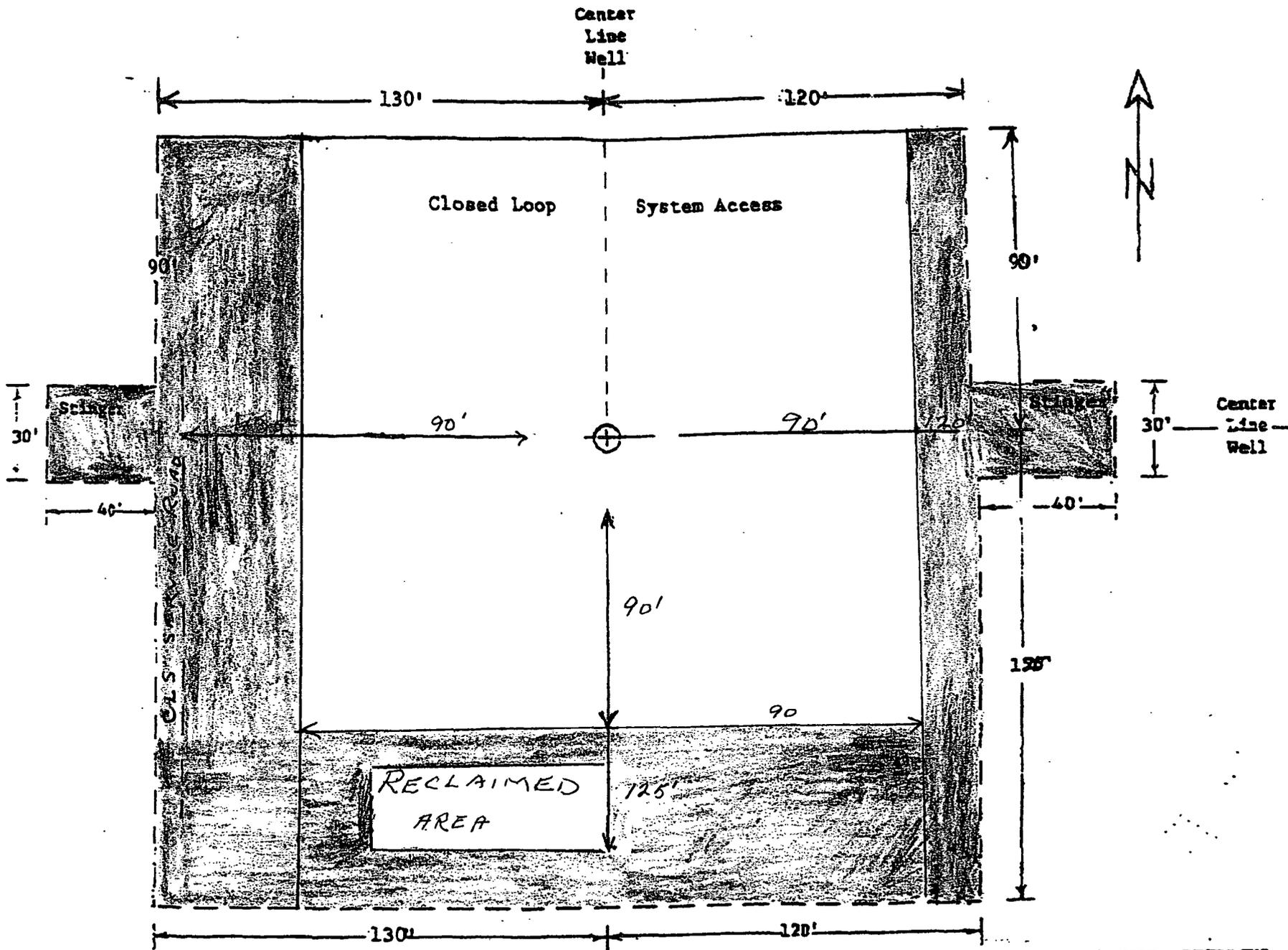
Tank well CS9

BREATHING ZONE	
LIP OF HATCH	
VAPOR SPACE	<u>0 ppm</u>
TANK SIZE	

Tank

BREATHING ZONE	
LIP OF HATCH	
VAPOR SPACE	
TANK SIZE	

H2S TECH. Steve Prudencio



UNITED DRILLING, INC.

LOCATION PLAT

R10