H_2S Preparedness and Contingency Plan Summary

Salado Draw 18 26 33 Fed 3H **Salado Draw 18 26 33 Fed 4H**

Salado Draw 19 26 33 Fed 3H **Salado Draw 19 26 33 Fed 4H**

Training

MCBU Drilling and Completions H_2S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H_2S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H_2S, who are not required to perform work in H_2S areas, will be provided with an awareness level of H_2S training prior to entering any H_2S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

Advanced Level H_2S Training

Employees and contractors required to work in areas that may contain H_2S will be provided with Advanced Level H_2S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H_2S training will include:

1. H_2S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H_2S training;
6. Proficiency examination covering all course material.

Advanced H_2S training courses will be instructed by personnel who have successfully completed an appropriate H_2S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H_2S Training Certification

All employees and visitors will be issued an H_2S training certification card (or certificate) upon successful completion of the appropriate H_2S training course. Personnel working in an H_2S environment will carry a current H_2S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be up-wind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H_2S Equipment

Respiratory Protection

a) Six 30 minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.

b) Eight 5 minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.

b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H_2S Detection and Monitoring System

a) H_2S monitoring system (sensor head, warning light and siren) placed throughout rig.

- Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
- Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.

Well Control Equipment

a) Flare Line 150' from wellhead with igniter.

b) Choke manifold with a remotely operated choke.

c) Mud / gas separator

Mud Program

In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

1. Use of a degasser
2. Use of a zinc based mud treatment
3. Increasing mud weight

Public Safety - Emergency Assistance

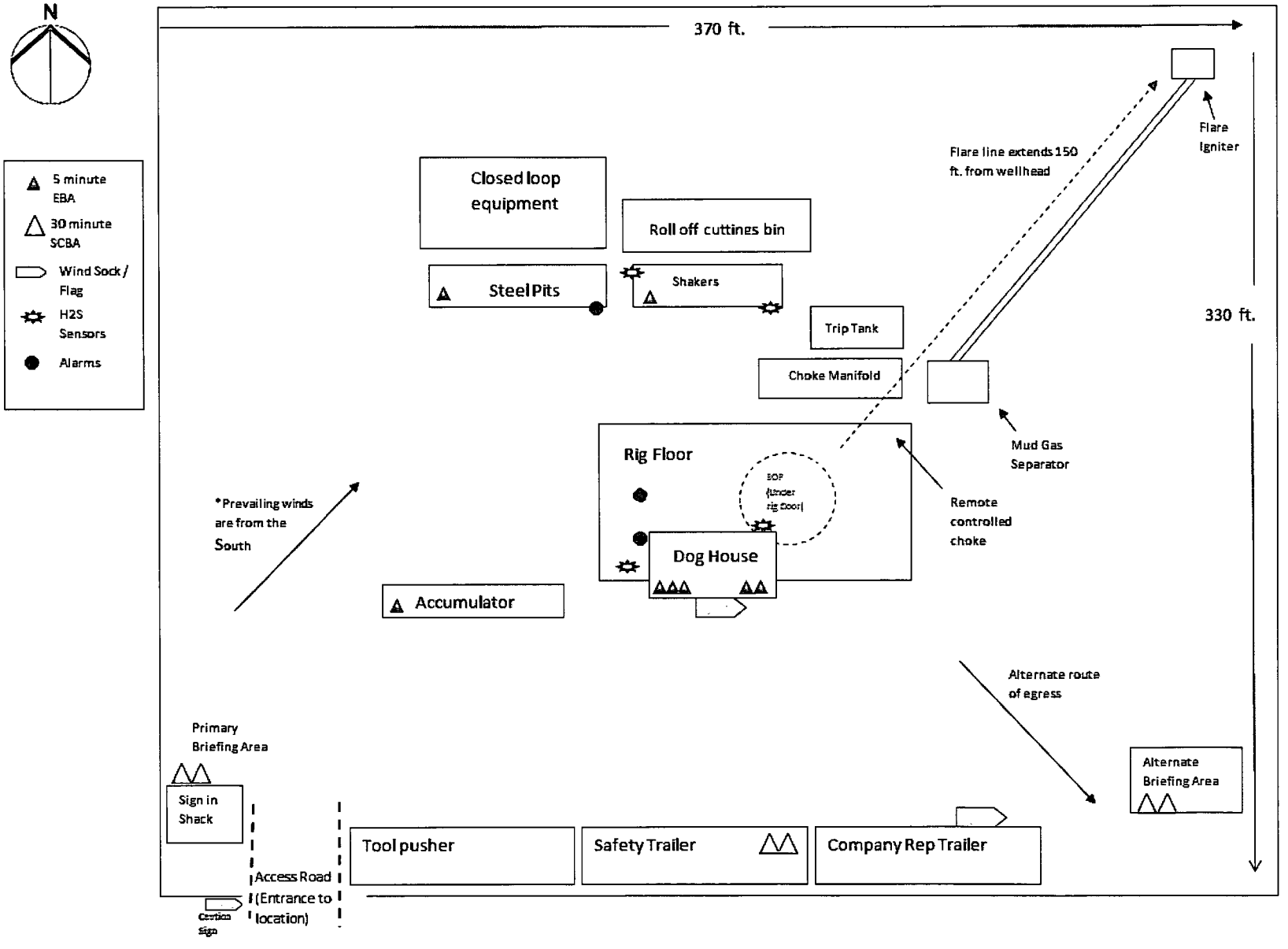
Agency	Telephone Number
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222

Chevron MCBU D&C Emergency Notifications

Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	Vicente Ruiz	Drilling Engineer	(713) 372-6181	(713) 898-5436
2.	Phil Clark	Superintendent	(713) 372-7588	(832) 741-4175
5.	Kim McHugh	Drilling Manager	(713) 372-7591	(713) 204- 8550
6.	Darrell Hammons	Operations Manager	(713) 372-5747	(281) 352 2302
7.	Andrea Calhoun	D&C HES	(713) 372-7586	(832) 588-0100
8.	Said Daher	Completion Engineer	(713) 372-0233	(832) 714-0724

H_2S Preparedness and Contingency Plan Summary



Salado Draw 19-26-33 Fed 3H, 4H

EXHIBIT E

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance: New Mexico One Call - www.nmonecall.org

DISCLAIMER. At this time, C.H. Fenstermaker & Associates, LLC has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NW ARCH. AREA CORNER	NE ARCH. AREA CORNER	SE ARCH. AREA CORNER	SW ARCH. AREA CORNER	SALADO DRAW 18 26 33 FED 3H WELL
X= 722,889 NAD 27	X= 723,554 NAD 27	X= 723,569 NAD 27	X= 722,894 NAD 27	X= 723,192 NAD 27
Y= 377,715	Y= 377,721	Y= 377,121	Y= 377,115	Y= 377,418
ELEVATION =3187' NAVD 88	ELEVATION =3190' NAVD 88	ELEVATION =3195' NAVD 88	ELEVATION =3189' NAVD 88	LAT. 32.035590
NW TOP SOIL AREA CORNER	NE TOP SOIL AREA CORNER	SE TOP SOIL AREA CORNER/NE PAD CORNER	SW TOP SOIL AREA CORNER/NW PAD CORNER	LONG. 103.613078
X= 723,020 NAD 27	X= 723,390 NAD 27	X= 723,351 NAD 27	X= 723,021 NAD 27	X= 764,373 NAD83
Y= 377,582	Y= 377,584	Y= 377,544	Y= 377,542	Y= 377,475
ELEVATION =3187' NAVD 88	ELEVATION =3190' NAVD 88	ELEVATION =3190' NAVD 88	ELEVATION =3189' NAVD 88	LAT. 32.035715
		SE PAD CORNER	SW PAD CORNER	LONG. 103.613545
		X= 723,393 NAD 27	X= 722,823 NAD 27	ELEVATION =3189' NAVD 88
		Y= 377,214	Y= 377,212	
		ELEVATION =3192' NAVD 88	ELEVATION =3191' NAVD 88	

R 33 E

Sec. 18
Bureau of Land Management

Existing Enterprise Pipeline

675'

Existing Fence Line

Existing 10' Wide Dirt Road

370'

PROPOSED TOP SOIL AREA
±0.34 Acres

40'

275'

PROPOSED PAD
±2.80 Acres

200'

600'

T 26 S

PROPOSED ARCHAEOLOGICAL AREA
±6.50 Acres

350'

Reclaimed Area

370'

PROPOSED ACCESS ROAD
14' X ±343'
±0.11 Acres
±20.79 Rods

Sec. 19
Bureau of Land Management

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

To Proposed Salado Draw 18 & 19 26 33 Fed 1H-2H Drillsite

NAD 27 NEW MEXICO EAST ZONE

LEGEND
- Section Line
- Fence Line
- Lease Road
- Existing Pipeline
- Proposed R.O.W.

PROPOSED ACCESS ROAD
14' X ±7,752'
±2.49 Acres
±469.82 Rods

Proposed Electric Line R.O.W

Proposed Frac Pond (As-Staked)

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROADS
SALADO DRAW 18 26 33 FED 3H WELL
SECTION 19, T26S-R33E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

Scale: 1"=100'
100' 0 50' 100'

DRAWN BY: BMO	REVISIONS		
PROJ. MGR.: VHV	No. 1	DATE: 05/28/2014	REVISED BY: VHV
DATE: APRIL 23, 2014	No.	DATE:	REVISED BY:
FILENAME: T:\2014\2144695\DWG\Salado Draw 18 26 33 Fed 3H_SUP.dwg			