H₂S Preparedness and Contingency Plan Summary



SD WE 23 Fed P25 1HOBBS OCD SD WE 23 Fed P25 2H

SD WE 23 Fed P25 3H^{OCT} 2 7 2016

SD WE 23 Fed P25 4H

Training

RECEIVED

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 H₂S
- 2. Health hazards of H₂S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H₂S
- 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 H₂S 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:

- H₂S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
- 4. Basic overview of respiratory protective equipment suitable for use in H₂S 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 H₂S training;
- 6. Proficiency examination covering all course material.

Advanced H₂S training courses will be instructed by personnel who have successfully completed an appropriate H₂S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H₂S Preparedness and Contingency Plan Summary



H₂S Training Certification

All employees and visitors will be issued an H₂S training certification card (or certificate) upon successful completion of the appropriate H₂S training course. Personnel working in an H₂S environment will carry a current H₂S 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 upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H₂S 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

- 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.

H₂S Detection and Monitoring System

- a) H₂S 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.

H₂S Preparedness and Contingency Plan Summary



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 Sho	eriff's Department	575-396-3611
Fire Departme	nt:	
Carlsbad		575-885-3125
Artesia		575-746-5050
Lea County Re	gional Medical Center	575-492-5000
Jal Community	Hospital	505-395-2511
Lea County Em	ergency Management	575-396-8602
Poison Control	Center	800-222-1222

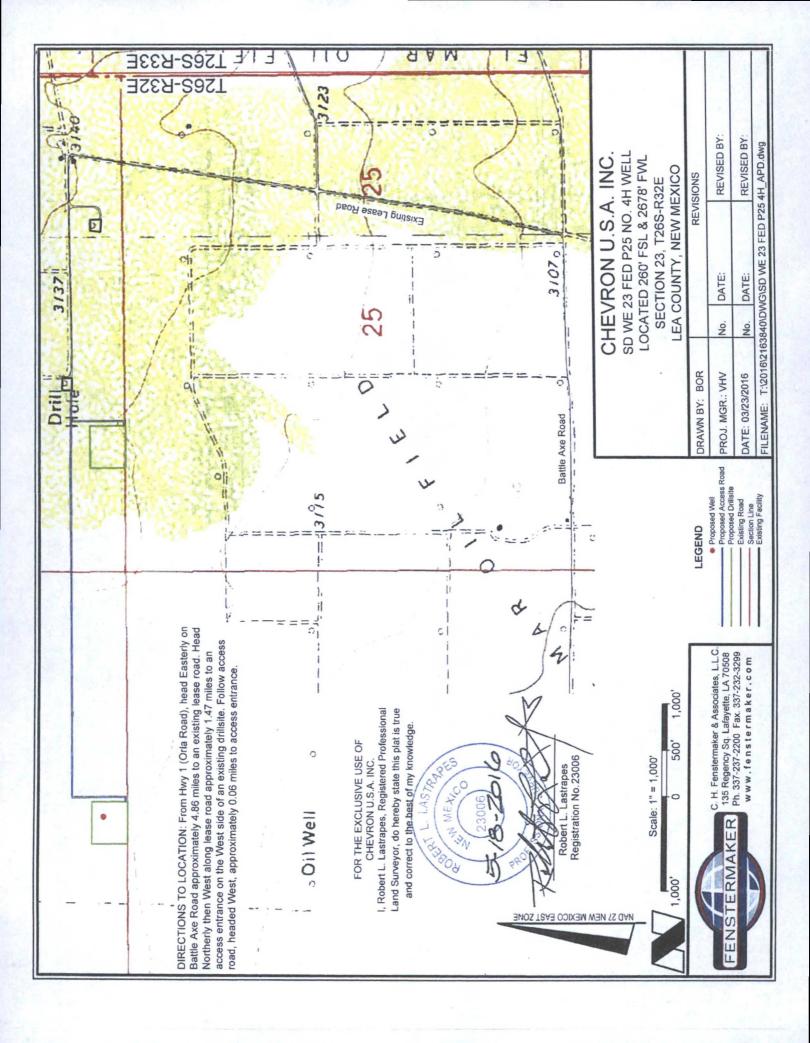




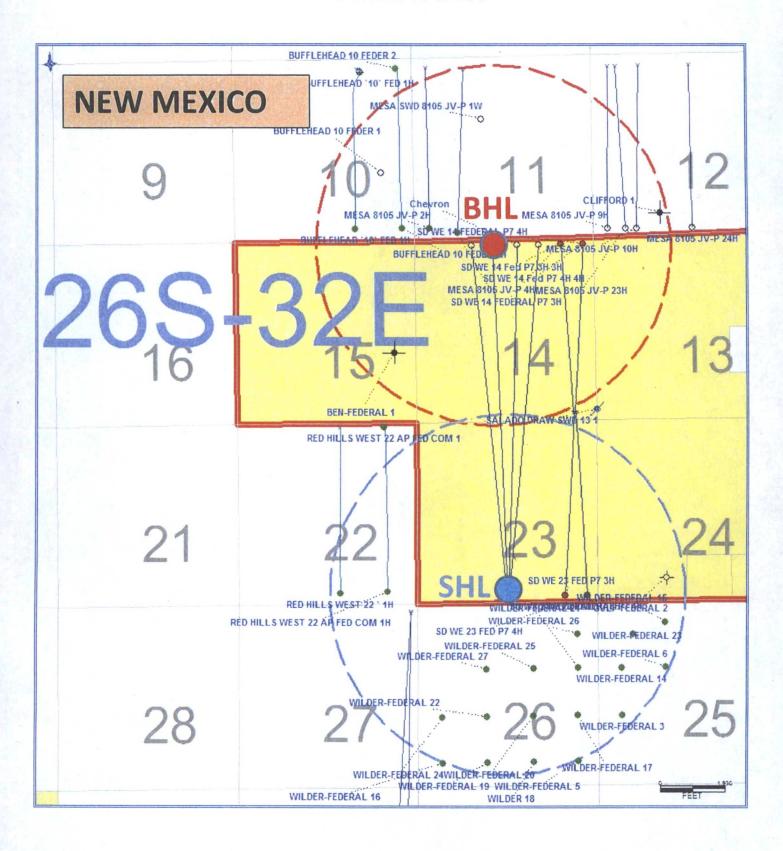
Chevron MCBU D&C Emergency Notifications

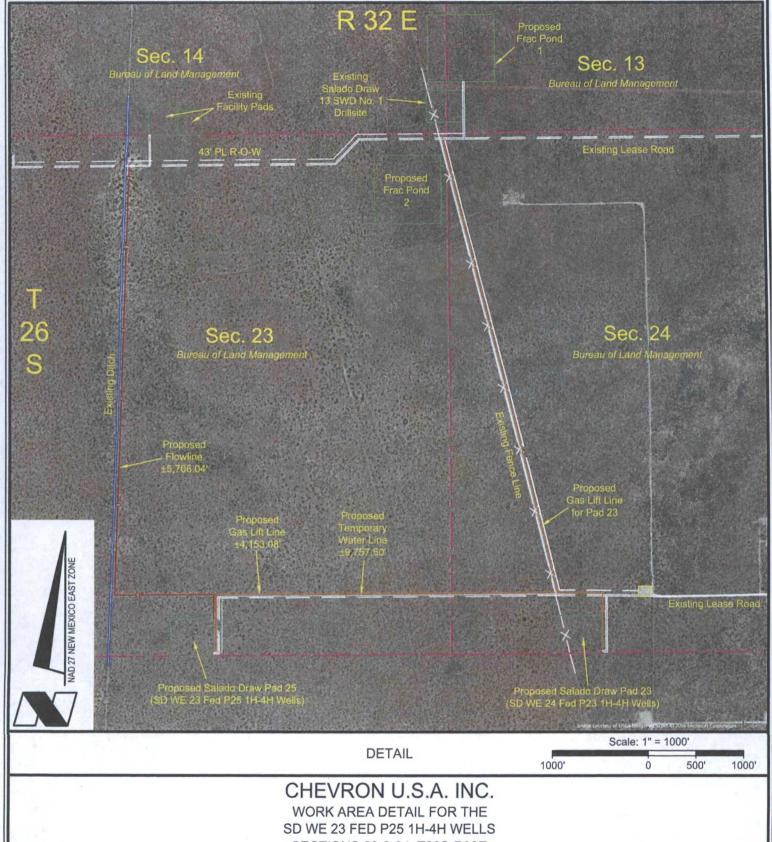
Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	Kenneth Hodges	Drilling Engineer	(713) 372-2154	(832) 470-3579
2.	Elmo Cecchetti	Superintendent	(713) 372-1235	(412) 719-7885
5.	Ikenna Chukwumaeze	Drilling Manager	(713) 372-7591	(281) 615-0701
6.	Scott Nash	Operations Manager	(713) 372-5747	(281) 814-9713
7.	Belle Davis	D&C HES	(432) 687-7477	(432) 234-8713
8.	Brendan Gustus	Completion Engineer	(713) 372-1309	(432) 530-6158



SD WE 23 Fed P 25-2H SURFACE AHD BOTTOM HOLE LOCATION TWN 26S RNG 32E SEC 23 & 14 1 MILE RADIUS



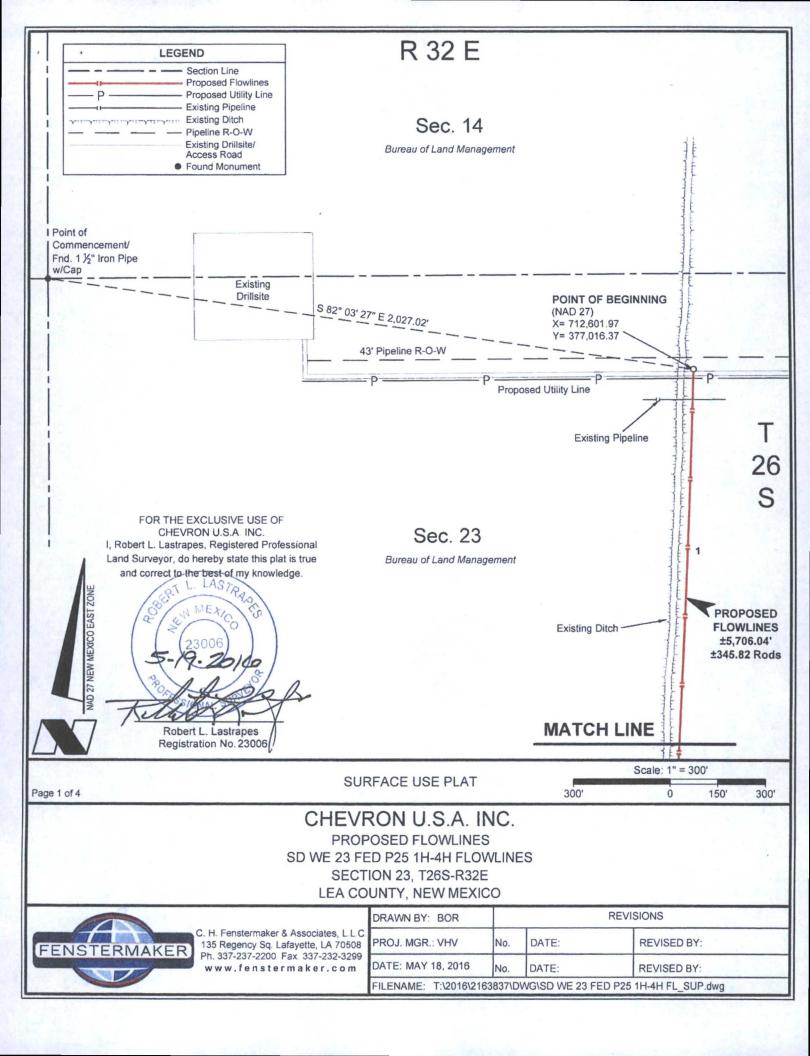


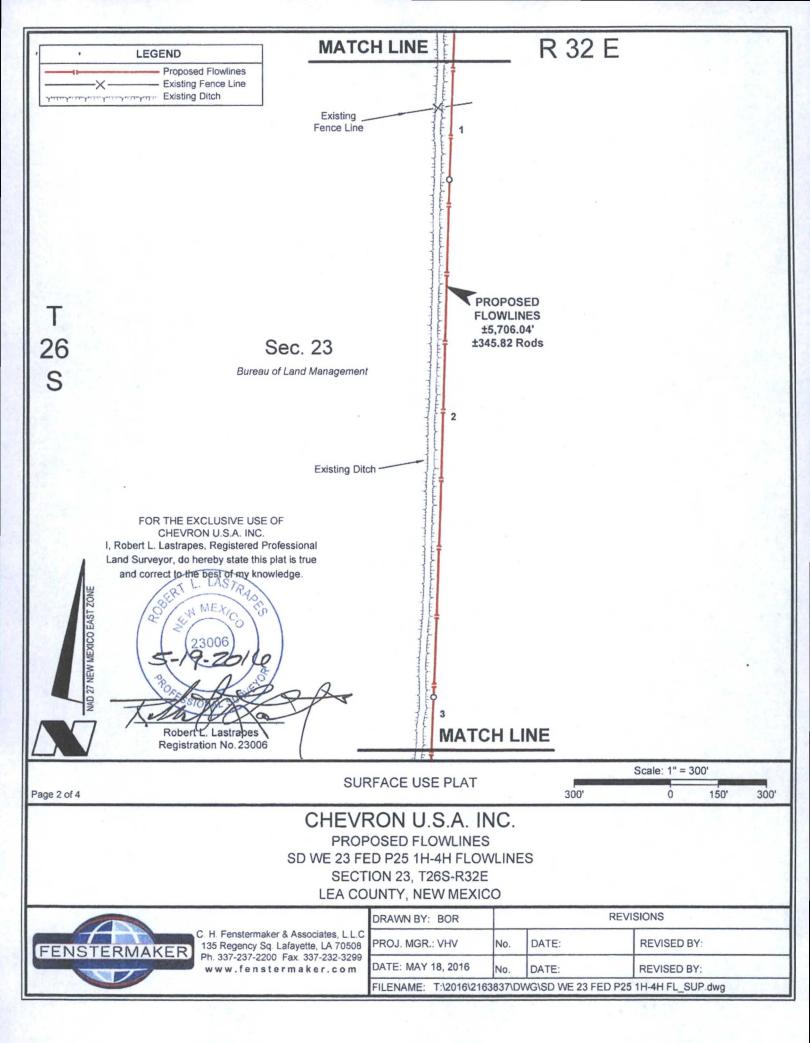
SECTIONS 23 & 24, T26S-R32E LEA COUNTY, NEW MEXICO

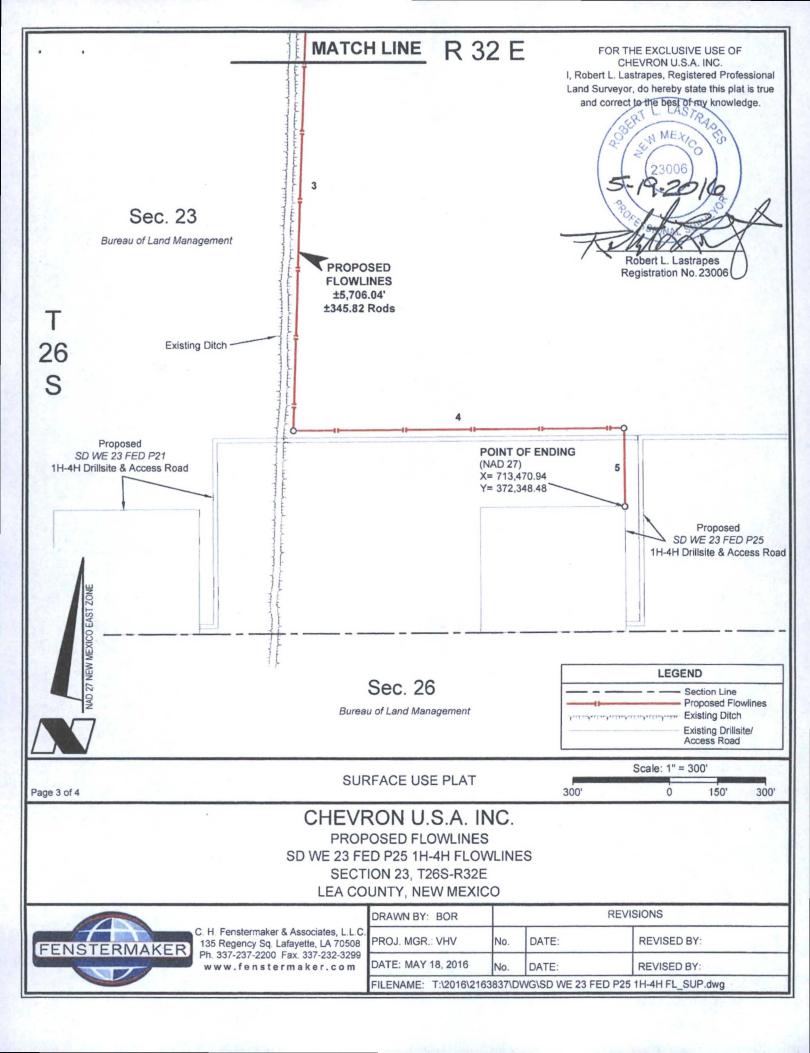


C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax. 337-232-3299 www.fenstermaker.com

DRAWN BY: VHV	REVISIONS			
PROJ. MGR.: VHV	No. 1	DATE: 07/05/2016	REVISED BY: VHV	
DATE: MAY 20, 2016	No.#	DATE:	REVISED BY:	
FILENAME: T:\2016\21	63837\D\	VGISD WE 23 FED P25	1H-4H AerialDetail.dwg	







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, L.L.C. 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.

METES AND BOUNDS DESCRIPTION OF PROPOSED FLOWLINES SECTION 23, T26S-R32E LEA COUNTY, NEW MEXICO

SD WE 24 FED P25 1H-4H FLOWLINES

Survey of proposed flowlines 5,706.04 feet or 345.82 rods in length crossing Bureau of Land Management land in Section 23 of Township 26 South Range 32 East, N.M.P.M Lea County, New Mexico.

COMMENCING at the Northwest corner of said Section 23 of Township 26 South Range 32 East at a Found 1 1/2" Iron Pipe with Cap; THENCE South 82 degrees 03 minutes 27 seconds East 2,027.02 feet to the POINT OF BEGINNING having the following coordinates: X= 712,601.97 and Y= 377,016.37 (New Mexico State Plane Coordinate System, East Zone, NAD 27);

Thence South 02 degrees 17 minutes 56 seconds West 1,529.02 feet;

Thence South 01 degrees 57 minutes 24 seconds West 1,595.50 feet;

Thence South 01 degrees 57 minutes 32 seconds West 1,310.61 feet;

Thence North 89 degrees 35 minutes 55 seconds East 1,028.01 feet;

Thence South 00 degrees 22 minutes 30 seconds East 242.90 feet to the **POINT OF ENDING** having the following coordinates: X= 713,470.94 and Y= 372,348.48 (New Mexico State Plane Coordinate System, East Zone, NAD 27);

The bearings recited hereon are oriented to NAD 27 New Mexico East Zone.

This description represents a survey of proposed flowlines and is intended solely for that purpose. \cdot

This description does not represent a boundary survey.

PROPOSED FLOWLINES			
COURSE	BEARING	DISTANCE	
1	S 02° 17' 56" W	1529.02'	
2	S 01° 57' 24" W	1595.50'	
3	S 01° 57' 32" W	1310.61	
4	N 89° 35' 55" E	1028.01	
5	S 00° 22' 30" E	242.90'	

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

I, Robert L. Lastrapes, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

> Robert L. Lastrapes Registration No. 23006

SURFACE USE PLAT

Page 4 of 4

CHEVRON U.S.A. INC.

PROPOSED FLOWLINES SD WE 23 FED P25 1H-4H FLOWLINES SECTION 23, T26S-R32E LEA COUNTY, NEW MEXICO



C. H. Fenstermaker & Associates, L.L.C. 135 Regency Sq. Lafayette, LA 70508 Ph. 337-237-2200 Fax. 337-232-3299 www.fenstermaker.com

				_
DRAWN BY: BOR	REVISIONS			
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:	
DATE: MAY 18, 2016	No.	DATE:	REVISED BY:	7/1
FILENAME: T:\2016\21	63837\D	WG\SD WE 23 F	ED P25 1H-4H FL_SUP.dwg	