



H₂S Preparedness and Contingency Plan Summary

Salado Draw 18 26 33 Fed 1H

Salado Draw 18 26 33 Fed 2H

Salado Draw 19 26 33 Fed 1H

Salado Draw 19 26 33 Fed 2H

HOBBS OCD

Training

JUL 02 2015

MCBU Drilling and Completions H₂S 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 H₂S. RECEIVED

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H₂S, who are not required to perform work in H₂S areas, will be provided with an awareness level of H₂S training prior to entering any H₂S 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 H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

1. 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.

JUL 07 2015



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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 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.

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

- 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.

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.

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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

<u>Agency</u>	<u>Telephone Number</u>
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

H₂S Preparedness and Contingency Plan Summary



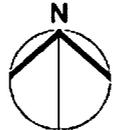
Chevron MCBU D&C Emergency Notifications

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

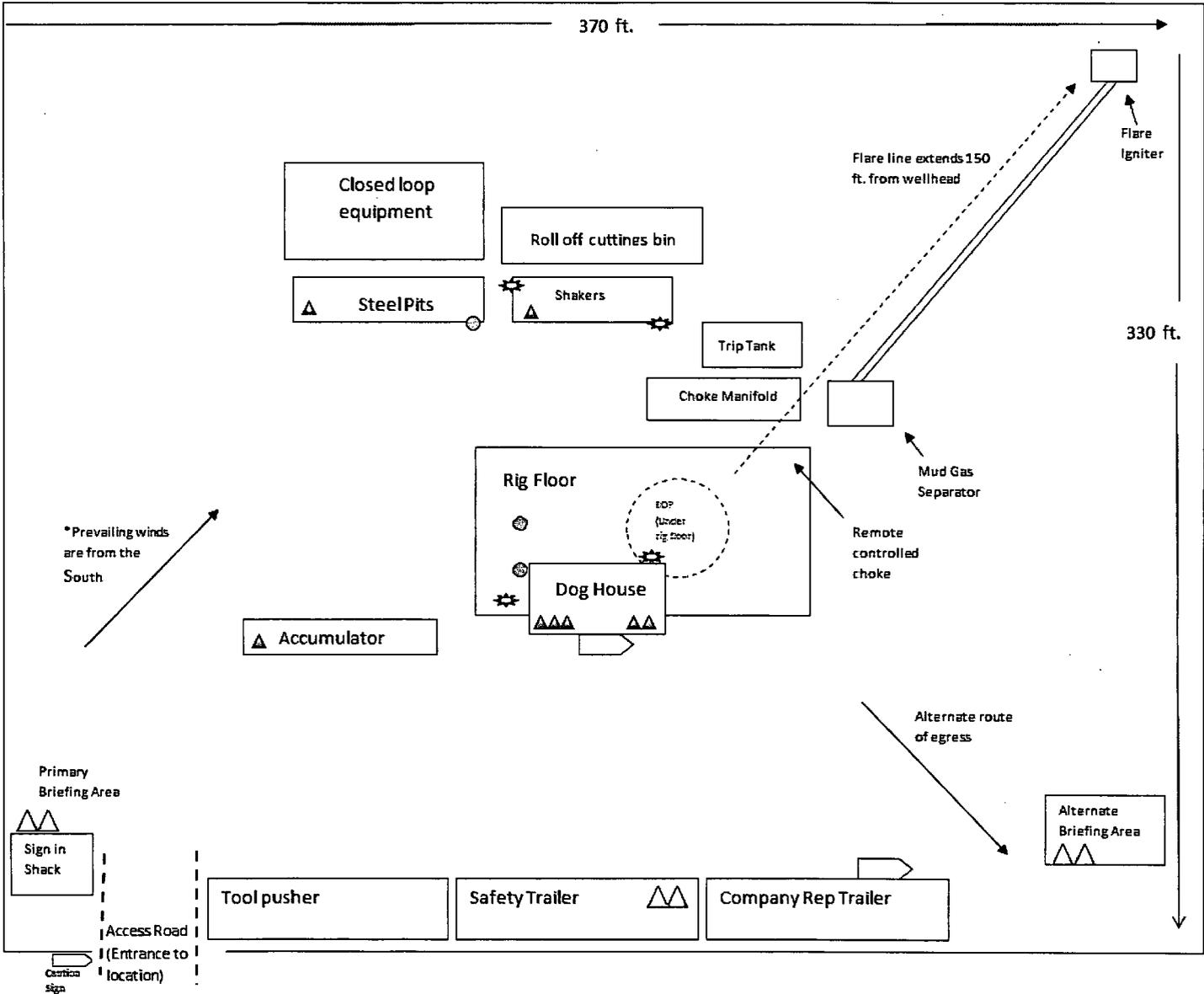
	Name	Title	Office Number	Cell Phone
1.	Vicente Ruiz	Drilling Engineer	(713) 372-6181	(713) 898-5436
2.	Phil Clark	Superintendent	(713) 372-7588	(832) 741-4175
5.	Kim McHugh	Drilling Manager	(713) 372-7591	(713) 204- 8550
6.	Darrell Hammons	Operations Manager	(713) 372-5747	(281) 352 2302
7.	Andrea Calhoun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



H₂S Preparedness and Contingency Plan Summary



-  5 minute EBA
-  30 minute SCBA
-  Wind Sock / Flag
-  H₂S Sensors
-  Alarms



Salado Draw 19-26-33 Fed 1H, 2H

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

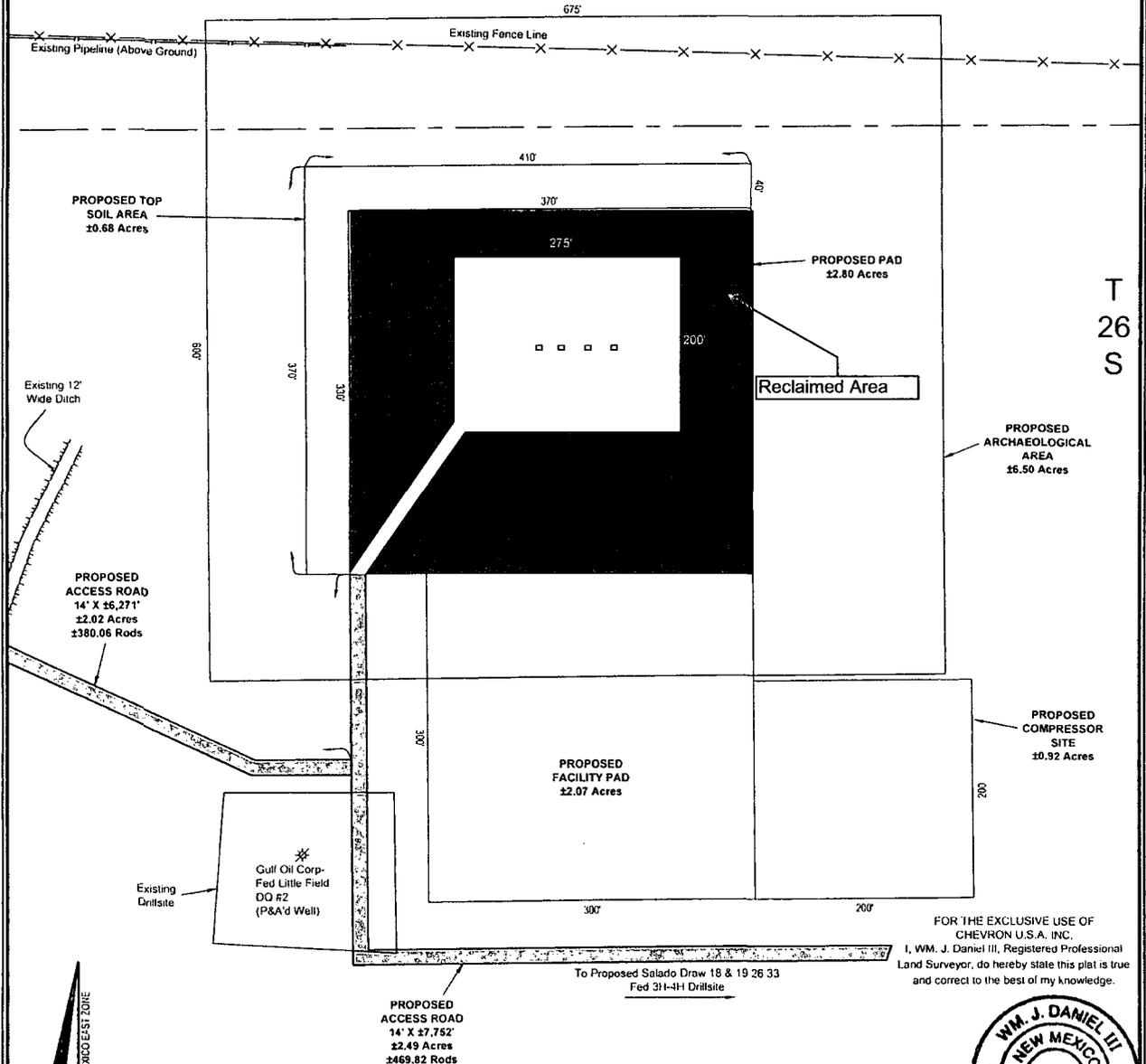
DISCLAIMER: At this time, C.H. Fenstermaker & Associates, LLC has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection 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 X= 721,819 NAD 27 Y= 377,707 ELEVATION +3174' NAVD 88	NE ARCH. AREA CORNER X= 722,494 NAD 27 Y= 377,713 ELEVATION +3180' NAVD 88	SE ARCH. AREA CORNER X= 722,500 NAD 27 Y= 377,113 ELEVATION +3187' NAVD 88	SW ARCH. AREA CORNER X= 721,824 NAD 27 Y= 377,707 ELEVATION +3172' NAVD 88	SALADO DRAW 18 26 33 FED 1H WELL X= 722,722 NAD 27 Y= 377,410 LAT. 32.035588 LONG. 103.610531 X= 763,309 NAD 83 Y= 377,457 LAT. 32.036713 LONG. 103.616999
NW TOP SOIL AREA CORNER X= 721,910 NAD 27 Y= 377,573 ELEVATION +3177' NAVD 88	NE TOP SOIL AREA CORNER X= 722,320 NAD 27 Y= 377,576 ELEVATION +3178' NAVD 88	SE TOP SOIL AREA CORNER X= 722,321 NAD 27 Y= 377,536 ELEVATION +3178' NAVD 88	SW TOP SOIL AREA CORNER X= 721,913 NAD 27 Y= 377,203 ELEVATION +3172' NAVD 88	
NW PAD CORNER X= 721,951 NAD 27 Y= 377,534 ELEVATION +3176' NAVD 88	SE PAD CORNER X= 722,323 NAD 27 Y= 377,206 ELEVATION +3178' NAVD 88	SW PAD CORNER X= 721,953 NAD 27 Y= 377,204 ELEVATION +3173' NAVD 88	NW COMPRESSOR SITE CORNER X= 722,324 NAD 27 Y= 377,107 ELEVATION +3179' NAVD 88	NE COMPRESSOR SITE CORNER X= 722,524 NAD 27 Y= 377,108 ELEVATION +3175' NAVD 88
NW FACILITY PAD CORNER X= 722,023 NAD 27 Y= 377,204 ELEVATION +3173' NAVD 88	SE FACILITY PAD CORNER/SW COMPRESSOR SITE CORNER X= 722,025 NAD 27 Y= 376,904 ELEVATION +3171' NAVD 88	SW FACILITY PAD CORNER X= 722,025 NAD 27 Y= 376,904 ELEVATION +3171' NAVD 88	SE COMPRESSOR SITE CORNER X= 722,525 NAD 27 Y= 376,908 ELEVATION +3185' NAVD 88	

Sec. 18

Bureau of Land Management

R 33 E



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



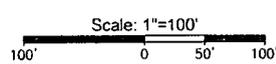
LEGEND	
	Section Line
	Fence Line
	Ditch
	Existing Pipeline

Sec. 19
Bureau of Land Management

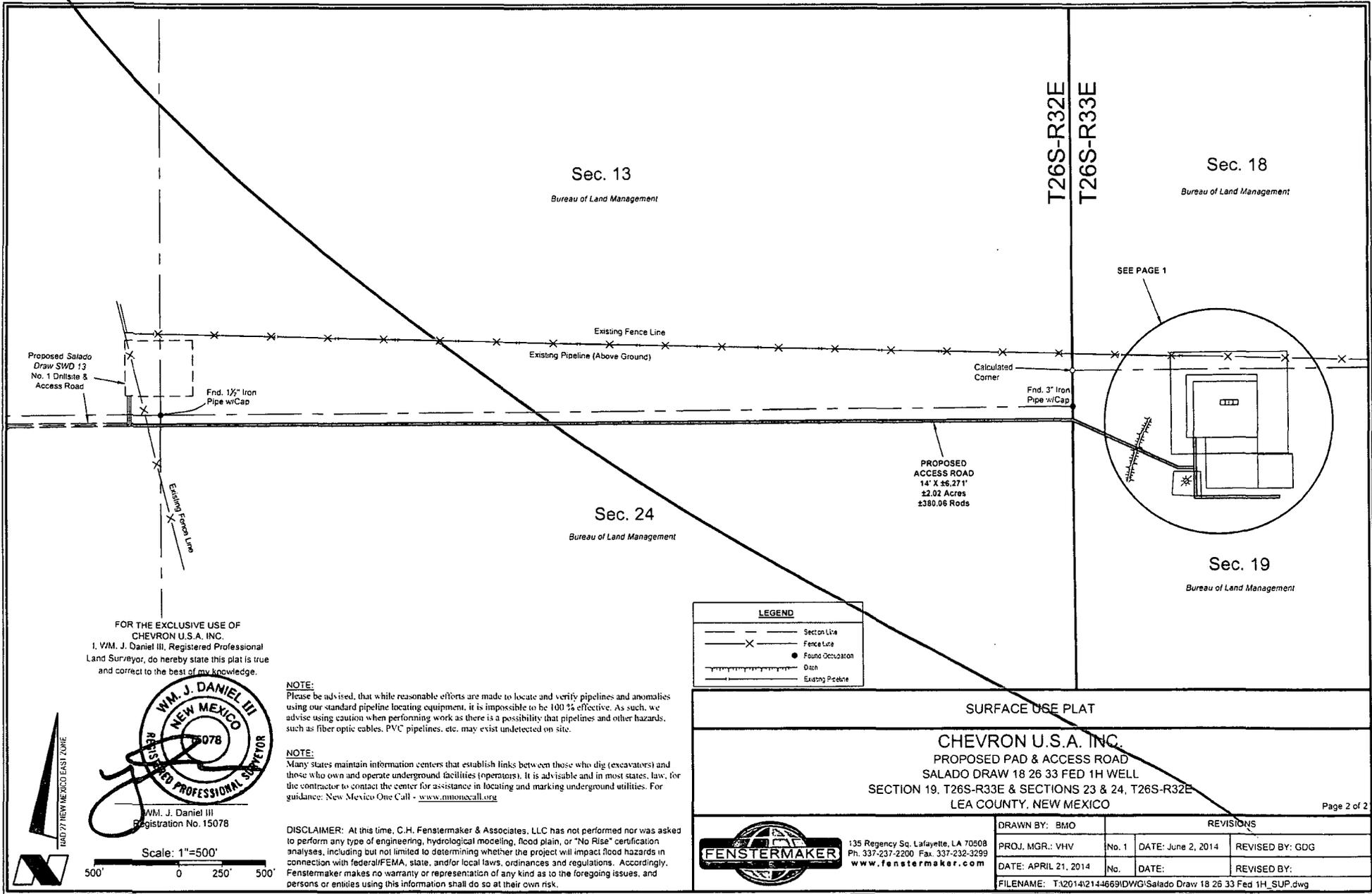
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
SALADO DRAW 18 26 33 FED 1H WELL
SECTION 19, T26S-R33E & SECTIONS 23 & 24, T26S-R32E
LEA COUNTY, NEW MEXICO



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



DRAWN BY: BMO		REVISIONS	
PROJ. MGR.:]	No. 1	DATE: June 2, 2014	REVISED BY: GDG
DATE: APRIL 21, 2014	No.	DATE:	REVISED BY:
FILENAME: T:2014J2144669\DWG\Salado Draw 18 26 33 Fed 1H_SUP.dwg			



Sec. 13
Bureau of Land Management

Sec. 18
Bureau of Land Management

Sec. 24
Bureau of Land Management

Sec. 19
Bureau of Land Management

T26S-R32E
T26S-R33E

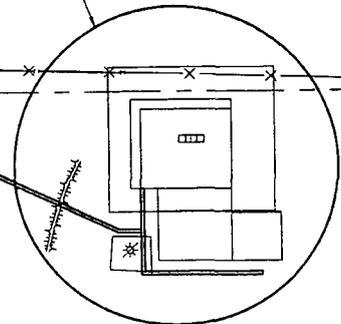
SEE PAGE 1

Proposed Salado Draw SWD 13 No. 1 Driltsite & Access Road

Existing Fence Line
Existing Pipeline (Above Ground)

Calculated Corner
Fnd. 3" Iron Pipe w/Cap

PROPOSED ACCESS ROAD
14' X 88.271'
22.02 Acres
2380.96 Rods



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
Registration No. 15078

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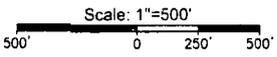
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LEGEND	
---	Section Line
-X-	Fence Line
●	Found Occupation
---	Ditch
---	Existing Pipeline

SURFACE USE PLAT

CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
SALADO DRAW 18 26 33 FED 1H WELL
SECTION 19, T26S-R33E & SECTIONS 23 & 24, T26S-R32E
LEA COUNTY, NEW MEXICO

Page 2 of 2



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Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

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PROJ. MGR.: VHV	No. 1	DATE: June 2, 2014	REVISED BY: GDG
DATE: APRIL 21, 2014	No.	DATE:	REVISED BY:
FILENAME: T:\2014\214-4669\DWG\Salado Draw 18 26 33 Fed 1H_SUP.dwg			