

COPY

BTA OIL PRODUCERS LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

HOBBS OCD

FEB 22 2016

1. HYDROGEN SULFIDE TRAINING

RECEIVED

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
- b. Protective equipment for essential personnel:
 - Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H₂S detection and monitoring equipment:
 - 2 - portable H₂S monitor positioned on location for best coverage and

MAR 03 2016

COPY

response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

BTA OIL PRODUCERS LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

COPY

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH BTA OIL PRODUCERS, LLC FOREMAN AT MAIN OFFICE***

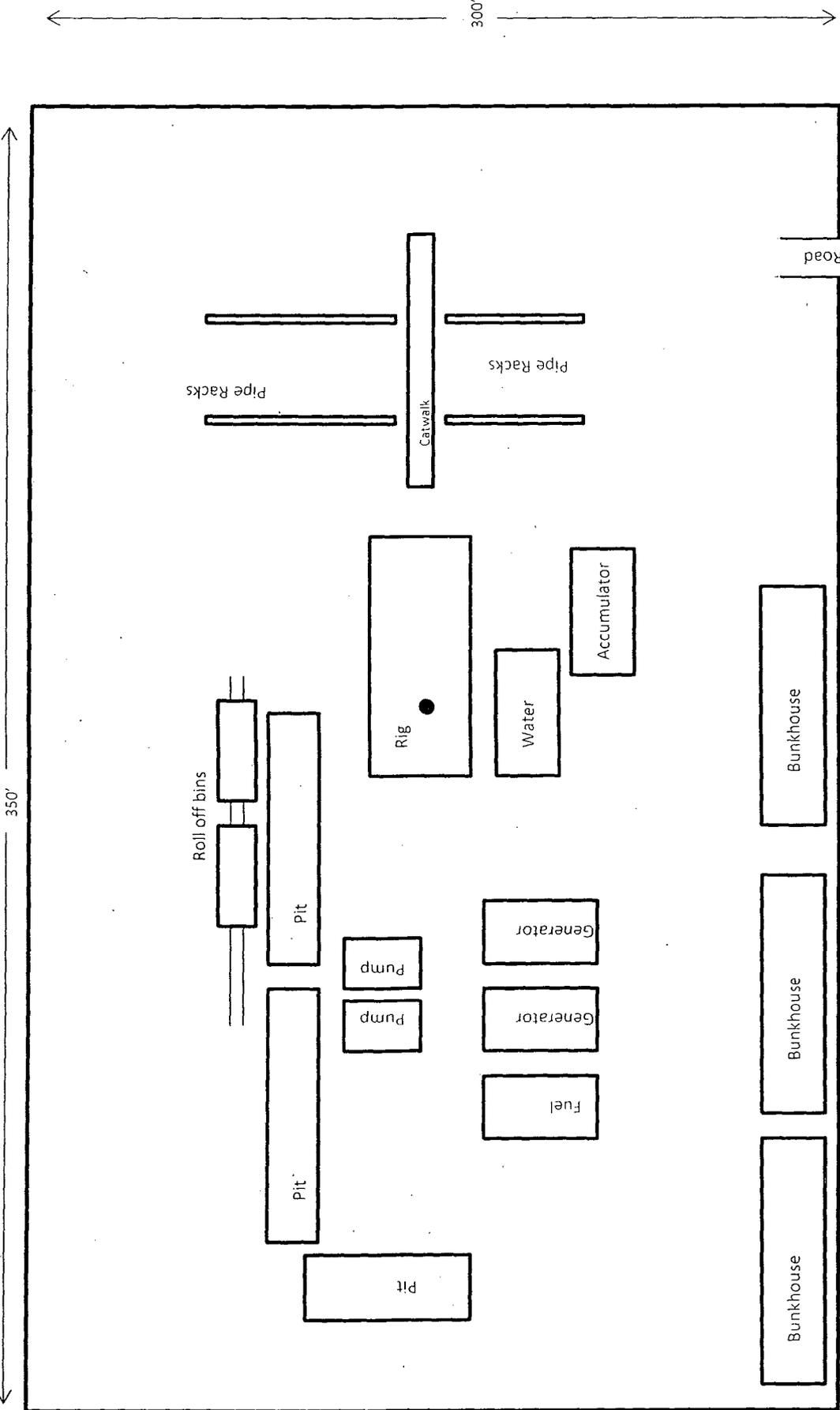
BTA OIL PRODUCERS LLC

1-432-682-3753

COPY

BTA Oil Producers
7811 JV-P Vaca Draw Unit SWD #1
658' FSL 662' FEL
21, 25S, 33E
Lea County, NM

BTA Oil Producers, LLC
7811 JV-P Vaca Draw Unit SWD #1
658' FSL & 662' FEL
Sec. 21, T25S, R33E
Attachment to Form 3160-3
API:30-025-23895

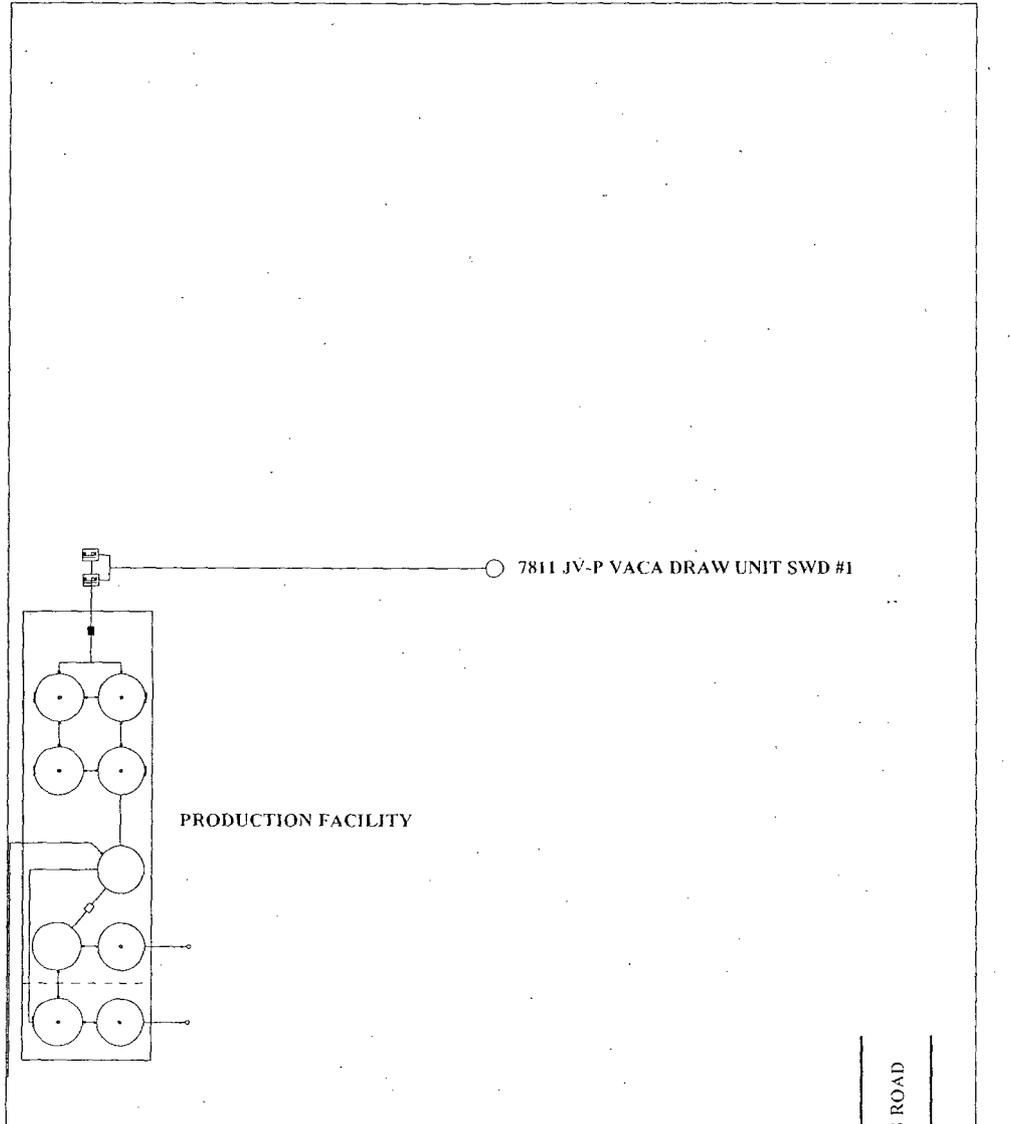


COPY

BTA Oil Producers, LLC
7811 JV-P Vaca Draw Unit SWD #1
658' FSL & 662' FEL
Sec. 21, T25S, R33E
Attachment to Form 3160-3
API:30-025-23895



300'



350'

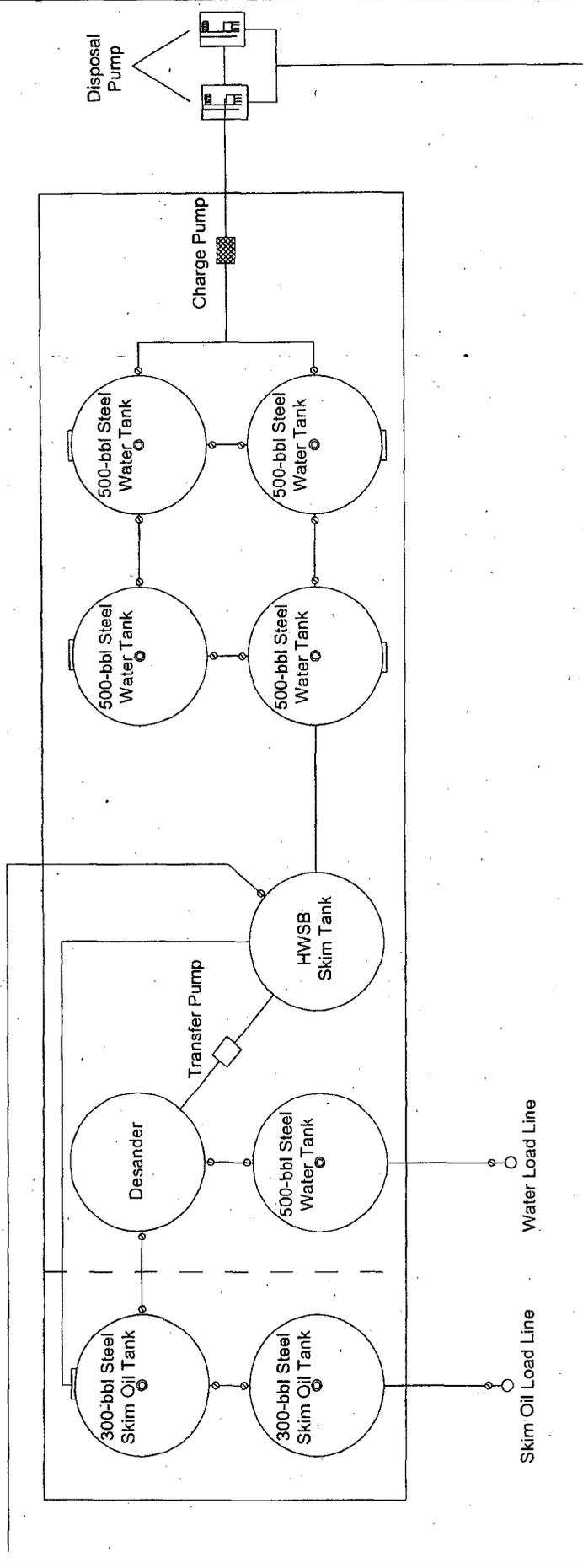
BTA OIL PRODUCERS, LLC

7811 JV-P VACA DRAW UNIT SWD #1
SEC 21 T25S R33E
LEA COUNTY, NEW MEXICO

NOT DRAWN TO SCALE

CAD Date: 11/19/14

Drawn By: KM



BTA OIL PRODUCERS, LLC
7811 JV-P VACA DRAW UNIT SWD #1
SEC 21 T2SS R33E
LEA COUNTY, NEW MEXICO
 Production Facility Layout

CAD DATE: 12/3/15	DRAWN BY: KM	SHEET 1 OF 1
-------------------	--------------	--------------

NOT DRAWN TO SCALE

7811 JV-P VACA DRAW UNIT SWD #1
AERIAL VIEW OF NEW PAD LOCATION
657.5 FSL & 661.5 FEL
SEC 21 T25S-R33E
LEA COUNTY, NEW MEXICO

NAD 83 NME
LAT = 32.110873° N
LONG = 103.571571° W

NAD 83 NME
LAT = 32.110869° N
LONG = 103.570441° W

NAD 83 NME
LAT = 32.110869° N
LONG = 103.570441° W

NAD 83 NME
LAT = 32.109990° N
LONG = 103.570448° W

