



**Kerr-McGee Oil & Gas Onshore LP**

**FLOOD SHUT-IN PLAN**

**Paul Nelson 25-29HZ Well Pad and Facility  
NW/4 SE/4 Section 29, 5N 67W**

**Weld County, Colorado**

**September 2021**

### **Key Contact & Location Information**

**Oil & Gas Location Name:** Paul Nelson 25-29HZ

**Location:** 5N 67W Sec 29 NWSE

#### **Operator Contact Information:**

Kerr McGee Integrated Operations Center: 970.515.1500

Kerr McGee Colorado Response Line: 866.248.9577

Kerr McGee Public Affairs 832.636.8736

#### **Weld County Floodplain contacts:**

Diana Aungst: 970.400.3524

Angela Snyder: 970.400.3525

### **Proposed and Existing wells**

<b><u>Proposed Wells</u></b>	
Paul Nelson 29-1HZ	Paul Nelson 29-10HZ
Paul Nelson 29-2HZ	Paul Nelson 29-11HZ
Paul Nelson 29-3HZ	Paul Nelson 29-12HZ
Paul Nelson 29-4HZ	Paul Nelson 29-13HZ
Paul Nelson 29-5HZ	Paul Nelson 29-14HZ
Paul Nelson 29-6HZ	Paul Nelson 29-15HZ
Paul Nelson 29-7HZ	Paul Nelson 29-16HZ
Paul Nelson 29-8HZ	Paul Nelson 29-17HZ
Paul Nelson 29-9HZ	

### **Proposed tanks & Separation Equipment**

2 Permanent 16' Diameter Condensate  
Tanks – 570 BBL

6 Permanent 16' Diameter Water Tanks -  
1,710 BBL

26 Temporary Water Tanks – 13,000 BBL

2 Test Separators

10 Production Separators

2 Bulk Separators

3 Air compressors

7 Temporary ECDs

2 LACT Meters and 2 LACT Pumps

KMOG has a comprehensive Site Safety and Emergency Action Plan (EAP). The plan's primary goal is to help the company prevent/mitigate, to the maximum extent feasible any injuries, loss of life, and damage to property, wildlife or impacts to the environment due to our operations. The EAP employs the use of the Incident Command System (ICS) based on the National Incident Management System (NIMS). ICS provides a commonly understood framework that allows for effective interaction among response personnel to ensure necessary manpower and resources are deployed to properly manage an incident. Members of our ICS team receive classroom training on an annual basis along with planned and unplanned drills to ensure they are prepared to respond to any event. In addition, all KMOG field employees receive annual training on our EAP.

KMOG maintains an Integrated Operations Center (IOC) at our office in Platteville, Colorado. The IOC is manned 24 hours a day by personnel who can monitor wells located in the floodplain and implement shut-in procedures if warranted. In addition, KMOG maintains an Emergency Operations Center (EOC) in Denver that can be activated to support the IOC in Platteville in case of an event.

During spring run-off and periods of high river flow concerns, HSE will review river levels and flow weekly. If near flood levels exist, reports will be sent out daily detailing water levels and forecasts. Additionally, daily weather is also monitored by the IOC.

KMOG maintains a list of wells and facilities located in the floodplain. The master list identifies the wells located within the floodplain that are all equipped with remote shut-in capabilities and the tanks fluid levels that can be monitored by personnel in the IOC. This master list will be utilized to identify which wells are in the flood area and the prioritize response due to flood risk.

In an emergency flood situation, the IOC will track and can provide shut-in status to the COGCC and regulating agencies through the HSE team.

***If a Potential Flooding Event is Identified:***

- a. If it is determined, based on HSE river levels review, that a weather event is likely to cause the Big Thompson river to enter flood stage or weather could cause equipment damage, the IOC will notify appropriate supervisor(s). Supervisor(s) will determine subsequent steps to be taken those may include the following:
  - i. Activate Incident Command System (ICS) team in Platteville
  - ii. Stand up the Emergency Operations Center (EOC) in Denver
  - iii. Notify potentially impacted employees of a severe weather event and to take necessary safety precautions
  - iv. Continue to monitor stream/river flows via internet (NOAA, USGS etc.) to track possible flooding

- v. Using the Floodplain Master List determine if any wells in the floodplain should be shut-in and the order of the shut-in.
- vi. Determine if any facilities or tanks in the event location have hydrocarbon fluids and remove them prior to flooding to minimize possible spill impacts if containment is compromised during the flooding event.

**If Flooding Impacts Our Operations:**

- a. If it is determined, based on HSE river levels review, that the Big Thompson river has entered flood stage or weather will cause equipment damage, the IOC will notify appropriate supervisor(s). Supervisor(s) will determine subsequent steps to be taken those may include the following:
  - i. Activate Incident Command System (ICS) team in Platteville if not previously activated
  - ii. Stand up the Emergency Operations Center (EOC) in Denver
  - iii. Notify potentially impacted employees of a severe weather event and to take necessary safety precautions
  - iv. Using the Floodplain Master List determine which wells in the floodplain should be shut-in and the order of the shut-in.
    - 1. If an emergency shut in is necessary, initial remote shut in will include closure of the well safety valve, plunger control valve, separator high/ low valve and the LACT oil line valve.
    - 2. This will be followed by a manual shut in at the wellhead master valve, which will be closed by a production technician.
- b. Initiate process to assess impacts (equipment damage, spill releases etc.)
- c. Notify regulatory agencies if hydrocarbons are released
- d. When safe, deploy spill response equipment to control release and prevent/minimize additional impacts from the release
- e. Initiate clean-up of any released hydrocarbons
- f. Ensure proper disposal of waste material is collected