

# **SITE SAFETY AND EMERGENCY ACTION PLAN**

## **Bison IV Operating, LLC**



**Bison IV Operating, LLC**

**518 17th Street**

**Suite 1800**

**Denver, Colorado 80202**

**FRIENDLY SKIES OGD**

**747 PAD**

**W2NW Section 8, Township 3 South, Range 65 West**

**ADAMS COUNTY, COLORADO**


**Proposed Spud Date: 2nd Quarter 2026**

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## SECTION 1 – APPROVAL SIGNATURES

**Instructions:** Company Representative to sign with concurrence review by local Fire District in alignment with ECMC FORM 2 A and Rule 602. J Emergency Response Plan, Guidance Plan Element 2.

<b>Bison IV Operating, LLC</b>			
<b>Name</b>	<b>Signature</b>	<b>Title</b>	<b>Date</b>
Katie Gillen		VP of EHS and Regulatory	10/30/2024
<b>Fire District</b>			
<b>Name</b>	<b>Signature</b>	<b>Title</b>	<b>Date</b>

## **SECTION 2 – SITE ADDRESS AND DIRECTIONS**

**a) Directions:**

From the intersection of E 64<sup>th</sup> Avenue and Jackson Gap Street, continue south on Jackson Gap Street for approximately 0.2 miles to a proposed access on the west side of the road, then continue west for approximately 0.2 miles to the proposed pad and facility.

**b) Ingress and egress information:**

All traffic into and out of the 747 Pad will check-in and check-out with security. All ingress and egress routes will be clearly identified and kept clear from parked/staged vehicles at all times.

**c) Physical Address and GPS coordinates**

- **API#** – Pending ECMC Permit Approval
- **Legal Description** – W2NW Section 8, Township 3 South, Range 65 West
- **Address** - \* Address Pending
- **Town, CO, State, Zip** – City of Aurora, Adams County, Colorado, 80019
- **Lat/Long:** Lat: 39.80925°N      Long: -104.69539°W

**d) Emergency Evacuation/Muster Assembly point(s)**

For incidents where remaining in a particular area could pose a hazard to personnel onsite, such as a fire or hazardous material release, evacuation may be required to ensure the safety of onsite personnel. In the event of an emergency, site personnel will initially be evacuated to pre-designated muster assembly points.

- The Muster assembly points are identified on the Project Location Access Map and Muster Point exhibit as well as the site-specific TRP.
- The Muster assembly points will be identified during all site safety briefings for visitors, employees, and contract personnel.
- Once drilling and completion activities are finalized, the site will transition to its production phase and no unauthorized personnel will be allowed on location without first contacting a company representative.

### SECTION 3 – LIST OF EMERGENCY CONTACTS

**a) Energy Company**

Name	Office Phone	Emergency/Cell
Bison IV Operating, LLC 518 17 <sup>th</sup> Street Suite 1800 Denver, Colorado 80202	720-644-6997	303-481-2844
Field Office and Address: 46355 CR 95 Briggsdale, Colorado 80611	NA	505-402-6027
Bison IV Operating LLC EHS on-call emergency number	n/a	303-481-2844
EHS Supervisor – Katie Gillen	720-370-5737	303-888-4931

**b) Energy Company Community/Media Relations**

Name	Office Phone	Cell Phone
Katie Gillen	720-370-5737	303-888-4931

**c) First Responders (Fire, EMS, HazMat)**

Name	Emergency Number	Non-Emergency Number
<b>*All emergency notifications require notification to 911 first</b>		
Aurora Fire Rescue	911	303-326-8999
Adams County Sheriff	911	303-288-1535
Colorado State Highway Patrol	911	303-688-3115

**d) Local, State, and Federal Contacts**

Name	Emergency Number	Non-Emergency Number
Aurora Energy and Environment Division	none	303-739-7000
Aurora Office of Emergency Management	911	303-326-8999
ECMC	none	303-894-2100

CDPHE	none	877-518-5608
Colorado Parks & Wildlife	none	303-291-7227
National Response Center	800-424-8802	none

e) **Medical Facilities** (*Nearest locations to site*)

Name	Office Phone
Anschutz Medical Campus	720-848-0000
UC Health – Green Valley Ranch	303-371-0330

f) **Spill Response Organization** (*Contracted*)

Name	24/7 Emergency Number	Non-Emergency Number
Clean Harbors Environmental	800-645-8265	303-289-8031

g) **Loss of Well Control**

Name	24/7 Emergency Number	Non-Emergency Number
Aurora Fire Rescue	911	303-326-8999
Anschutz Medical Campus		720-848-0000
Aurora Office of Emergency Management	911	303-326-8999

h) **Railroad Emergency Response** (*if applicable*)

Name	24/7 Emergency Number
Union Pacific Railroad	888-877-7267

## SECTION – 4 SITE SPECIFIC INFORMATION

**a) Site Description**

The 747 Pad at W2NW Section 8, Township 3 South, Range 65 West is a Bison IV Operating, LLC oil and gas production facility that will have eighteen (18) horizontal oil and gas wells. The drilling rig will be onsite and working 24/7 for approximately one hundred and eight (108) days, after which a hydraulic fracturing fleet will be on location 24/7 providing pressure pumping services for another seventy-five (75) days. After approximately ten (10) days of flowback, the site will enter the production phase. During the production phase, the site will be attended mostly during daylight hours only. Four (4) 750-barrel produced water tanks located inside a lined secondary containment structure will be on location.

**b) Nearby Schools, High Occupancy Buildings, Waterways**

- Schools - None within 2500' of location.
- High Occupancy Buildings - None within 2500' of location.
- Waterways – A mapped Special Flood Hazard is approximately 0.14 miles west of the location.

**c) Site Safety Requirements and General Safety Information**

The minimum personal protective equipment (PPE) to enter any Bison production location includes a hard hat, safety glasses, safety toe boots, fire resistant clothing (FRC), and a 4-gas monitor. All contractors and visitors are responsible for providing their employees with the appropriate training on and use of PPE while on Bison locations. In addition, all contract personnel entering a Bison location to perform work must understand and abide by Bison's contractor expectations relating to environmental, health, and safety requirements.

The primary hazards that any person must be aware of while on a Bison production location include, but are not limited to, the potential for release of hydrocarbon gases and/or liquids from production equipment/tanks, heavy truck and equipment traffic, loud noise, high pressures, and the potential for a flash fire. These hazards can vary depending on the work being performed.

- **SDS:** Depending on the operations taking place on location, chemicals stored on-site may vary. In accordance with 49 CFR 1910.1200, Safety Data Sheets (SDS) will be made available for site personnel performing work and for first responders in a centralized location onsite.

**d) Wells and Tanks On-site**

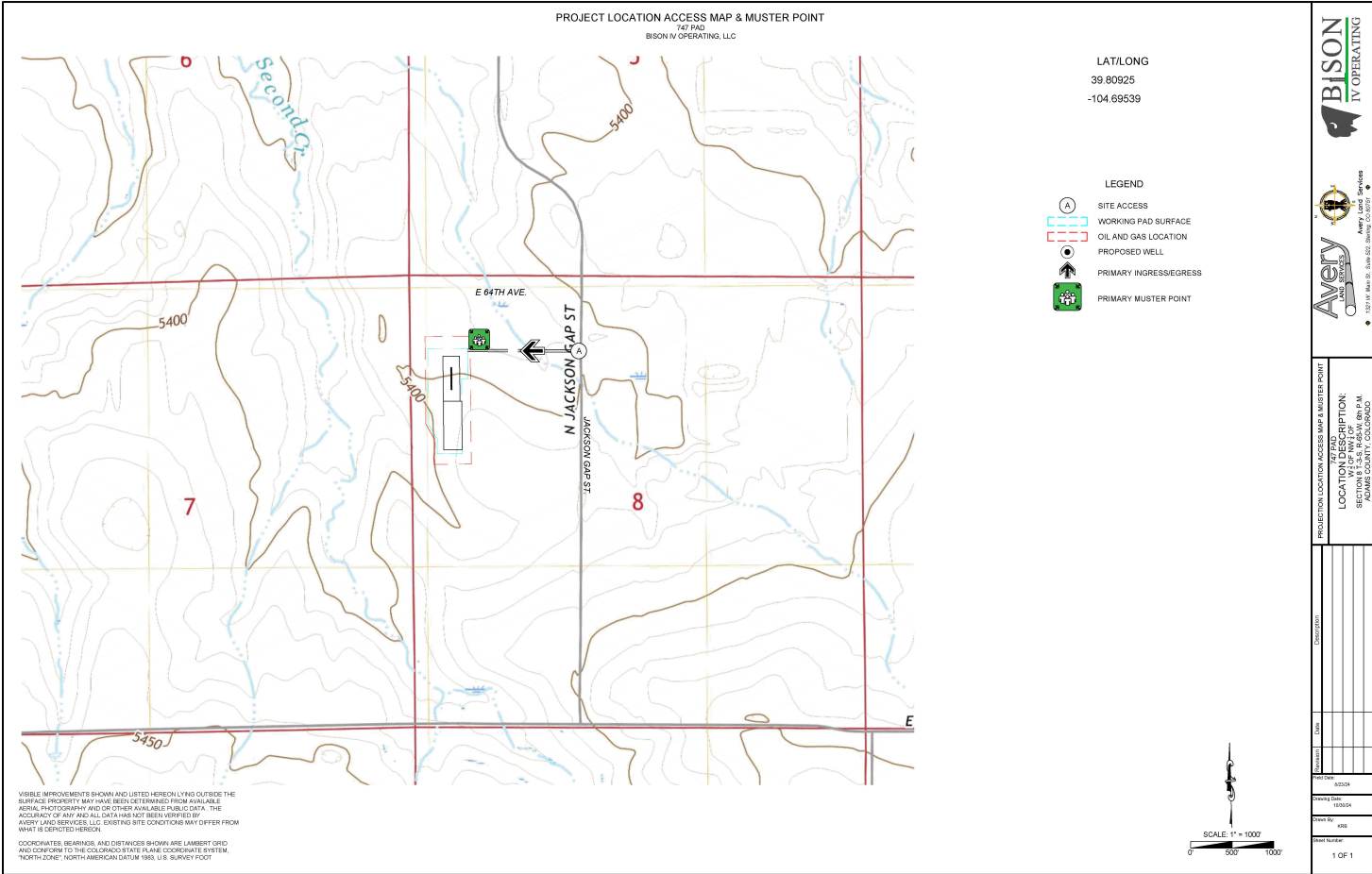
Item Description	Quantity
Horizontal oil and gas wells	18
750-bbl produced water	4

e) Chemicals stored on-site

<b>Drilling Phase</b>			
<b>Chemicals</b> <small>(CAPITAL letters indicate specific Product Name. Lowercase letters indicate generic chemical)</small>	<b>Package Size (Volume) &amp; Type</b>	<b>Quantity</b>	<b>Notes</b>
Calcium Chloride	50 lb sack	400-500	
D822 Base Fluid	19,000-gal tank	19,000 gals	
DMI WATE	Bulk silo	45 tons	
DMI WATE	100 lb sack	400 sacks	
Gilsonite	50 lb bag	80 sacks	
Lime	50 lb bag	300 sacks	
Magma Fiber	25 lb bag	45 sacks	
MULTI-SEAL	40 lb bag	160 sacks	
Oil Based Mud (OBM)	150-500 bbls tanks	1,800-2,200 bbl	
PREMA-VIS PLUS	50 lb bag	120 sacks	
Primary Emulsifier	55 gal drum	16-20 drums	
Secondary Emulsifier	55 gal drum	16-20 drums	
Low End Rheology Modifier	50 lb bag	80 bags	
Rig Wash	55 gal drum	4 drums	
Sawdust	40 lb bale	40 bales	
SOLTEX	50 lb bag	80 bags	
Walnut Shell M	50 lb bag	80 bags	
<b>Completions/Hydraulic Fracturing Phase</b>			
<b>Chemicals</b>	<b>Volume</b>	<b>Units/ Quantity</b>	<b>Notes</b>
Hydrochloric Acid	16,000-gal ATL Bulk	1	Used during first stages
HCR Synthetic Acid	4,500-gal Transport	2	
Sodium Bicarbonate	200-300 lbs	1	Acid neutralizer
Calcium Chloride (Brine)	500-bbl Capacity	1	Winter ops only
Friction Reducer (FR)	6,400-gal Capacity	2	ISO Containers
Biocide	6,400-gal Capacity	1	Biocide treatment trailer
Sodium Chlorite	2,000-gal Capacity	1	
Sodium Hypochlorite	2,000-gal Capacity	1	Biocide treatment trailer
Produced Water	500-bbl	4	
<b>Production Phase</b>			
<b>Chemicals</b>	<b>Volume</b>	<b>Units/ Quantity</b>	<b>Notes</b>
emulsion breaker	500-gal tank	1	
corrosion inhibitor	550-gal tank	1	
methanol	330-gal tank	3	



# Project Location Access Map and Muster Point







## **SECTION 6 – SPILL RESPONSE AND CLEAN-UP**

### **a) Spill Response**

There are multiple types of hydrocarbons which can be released/spilled during oil and gas production and exploration. The most commonly released hydrocarbons are unrefined products such as crude oil and produced water. Refined petroleum products such as diesel, gasoline, and motor oil spills are less common, but still equally important to mitigate. If a spill is found reportable, it will be mitigated in accordance with Colorado Energy and Carbon Management Commission (ECMC) and Colorado Department of Public Health and Environment (CDPHE) guidelines.

Once a release has been identified, it will be immediately stopped and contained if possible and is safe to do so. When containing a spill; pig blankets, snakes, absorbent materials, or earthen berms will be constructed around the release to keep material from spreading. These materials will be provided by Bison IV Operating, LLC and the contract company and kept on-site. Diligent efforts will be made to minimize contact with live vegetation or open water if a release is outside of secondary containment structures.

In the event of a large incident requiring outside assistance, Bison IV Operating, LLC has contracted with Silvers Jacobson Crisis Management & PR Strategies, LLC. Silvers Jacobson Crisis Management & PR Strategies, LLC possesses a working knowledge of oil and gas operations, emergency response and Incident Command. Once notified Silvers Jacobson Crisis Management & PR Strategies, LLC personal can be on location with 12 hours.

### **b) Spill Reporting**

The person reporting a spill may be required to supply spill assessment information to provide as a complete understanding of the incident as possible to local, state, or federal agencies if applicable. Some initial spill response actions and information that may be reported are presented below:

- A spill/release will be reported to the ECMC if released material is property of Bison Operating LLC and meets the ECMC reporting thresholds (see below), an example would be crude oil released from a separator or produced water from a water vault.
- A spill/release will be reported to the City of Aurora if released material is property of Bison IV Operating, LLC and meets the ECMC reporting thresholds (see below) mandated by Section 304 of the Emergency Planning and Community Right-To-Know Act (EPCRA).
- A spill/release will be reported to the CDPHE if released material is in the custody of a third party for spills meeting CDPHE reporting thresholds or are of any size that impact or threaten to impact waters of the state, a residence or occupied structure, livestock or public byway.

Spills are reportable to the ECMC and/or to the City of Aurora in the following circumstances:

- A. the spill or release impacts or threatens to impact any waters of the state, a residence or occupied structure, livestock or a public byway;
- B. a spill or release in which 1 barrel or more is released outside of berms or other secondary containment;
- C. or any spill or release of 5 barrels or more. If the spill impacts or threatens to impact waters of the state (which include surface water, ground water and dry gullies or storm sewers leading to surface water), it must also be reported immediately to CDPHE (25-8-601 CRS). Petroleum releases of 25 gallons or more.

Once a spill is determined reportable, there is a 24-hour deadline to make initial notification to the ECMC/LEPC or CDPHE depending on the product ownership. Spills/releases in the custody of Bison IV

Operating, LLC will be reported by a Company Representative. Spills/releases in the custody of a third party will be reported by the responsible company's EHS Department to the appropriate agency and to Bison IV Operating, LLC.

These regulatory guidelines will be strictly followed by Bison and any contractors operating under Bison IV Operating, LLC guidance during activities at the 747 Pad at W2NW Section 8, Township 3 South, Range 65 West.

## **SECTION 7 – REPORTABLE QUANTITIES**

### **a. Reportable Quantities**

Mandated by Section 312 of the Emergency Planning and Community Right-To-Know Act (EPCRA) – also known as SARA Title III – the Tier II form captures information about the types, quantities, and locations of hazardous chemicals at a given facility. The form also lists contact information for the facility’s designated emergency point-of-contact.

- Any facility that is required to maintain MSDSs (or SDSs) under the Occupational Safety and Health Administration (OSHA) 49 CFR 1910.1200 regulations for hazardous chemicals stored or used in the workplace.
- Facilities with chemicals in quantities that equal or exceed the lists of lists thresholds must report.
- Propane, benzene, and methane are on the list of chemicals with reportable thresholds and are known to be in crude oil. In addition, diesel may be stored on oil and gas sites during construction and development.

### **b. Reportable Requirements**

If your facility will meet the requirements under 40 CFR Part 370, you must submit your Tier II report to the State of Colorado every year before March 1<sup>st</sup>.

These regulatory requirements will be strictly followed by Bison and any contractors operating under Bison during all activities at the 747 Pad at W2NW Section 8, Township 3 South, Range 65 West.

## **SECTION 8 – EVACUATION INFORMATION**

### **a. Evacuation Plan Procedures (public)**

The procedure to be used in alerting the public in the event of than incident which could pose a threat to life or property will be arranged and coordinated with first responders and Aurora Emergency Management.

In the event of an actual emergency, the following steps will be immediately taken:

1. The Bison IV Operating, LLC representative will immediately notify first responders (911), to warn the public of a potential chemical exposure.
2. First responders may conduct door-to-door evacuation notices in addition to reverse 911 and utilizing the Integrated Public Alert and Warning System (IPAWS).
3. The Energy Company responsible for employees and contract personnel will monitor essential and non-essential personnel traffic on or near the incident site.
4. General:
  - a. The area included within the radius of exposure is considered to be the zone with the maximum potential hazard, per the Emergency Response Guide (ERG). When it is determined that conditions exist which create an additional area (beyond the initial zone of maximum potential hazard) vulnerable to possible hazard, public areas in the additional hazardous area will be evacuated.
  - b. In the event of an incident, after the public areas have been evacuated and traffic stopped, it is expected that local civil authorities will have arrived and within a few hours will have assumed direction of and control of the public, including all public areas.
  - c. Bison IV Operating, LLC will fully cooperate with these authorities and will exert every effort by careful advice to such authorities to prevent panic or rumors.

Bison IV Operating, LLC will dispatch appropriate personnel to the disaster site as soon as possible. The company’s personnel will cooperate with and provide such information to civil authorities as they might require.

## **SECTION – 9 TRAINING AND EXERCISES**

The National Incident Management System (NIMS) guides all levels of government, nongovernmental organizations and the private sector to work together to prevent, protect against, mitigate, respond to and recover from incidents.

NIMS provides stakeholders across the whole community with the shared vocabulary, systems and processes to successfully deliver the capabilities described in the National Preparedness System. NIMS defines operational systems that guide how personnel work together during incidents.

Bison IV Operating, LLC plays a vital role in the Incident Management System. Bison IV Operating, LLC has a significant impact on local, regional, and national economic recovery, and is part of the whole community and essential to the function of the Community Lifelines.

To maximize Bison IV Operating, LLC's impact and willingness to participate in incident operations, Bison IV Operating, LLC should coordinate and integrate with first responders into a Unified Command (UC)—including planning, training, and preparedness exercises. In addition, it is also recommended all Bison IV Operating, LLC employees who will respond to an incident have training in ICS 100, ICS 200, and ICS 700 at a minimum, for company and agency emergency response interoperability to manage a response.

Exercises are an important component to testing an organization's response readiness, training and familiarity with various emergency response scenarios, participation and engagement with local and or state agencies, and to develop lessons learned to improve emergency response capabilities. Per ECMC guidance number 16, a proposed schedule and type of exercises are provided below:

- Bison will conduct annual emergency response exercises and coordinate periodic tabletop drills with first responders and local government officials, and onsite emergency response exercises with local first responders every three years.

## **SECTION – 10 COORDINATION WITH FIRST RESPONDERS**

- a) Bison IV Operating, LLC will communicate important to the Aurora Office of Emergency Management for coordination/communication with local first responders.
- b) In the event of an emergency requiring First Responders, Unified Command will be established between the Bison appointed company man on location and First Responders present. The Unified Command post will be established based on conditions present at the time of the incident.
- c) Bison IV Operating, LLC's EHS representative and first responders identified in this Emergency Action Plan and Tactical Response Plan have reviewed both documents and have discussed coordination efforts in the event of an emergency situation requiring first responder assistance.
- d) **Industry Mutual-Aid:** Energy companies are encouraged to be members of the Colorado Preparedness Response Network (CPRN), to support mutual-aid collaboration between industry and public emergency response organizations to achieve a coordinated and effective response to an all-hazards event.

## **SECTION – 11 Plan Review and Update Procedures**

- a) Multi-year plan review and update:  
Bison IV Operating, LLC will update this plan or incorporate this location into an area-wide plan and update that plan every five (5) years or after a change in personnel, operations or ownership.
- b) Post incident plan review and update:  
Bison IV Operating, LLC will update this plan after a spill/release in order to evaluate and record the plan's effectiveness.



## FIRE DEPARTMENT RESPONSE GUIDELINES

### COMMAND

- Establish initial command post near the oil & gas location entrance.
- Position should provide a clear view of the entire scene.
- Advise responding units and resources to stage near location entrance.
- Locate operator lease sign on location (located at the entrance / site access).
- If industry personnel are not on location, call the 24-Hour Emergency Contact number located on the sign.
- Establish unified command with operator on-site liaison.
- Develop incident action plan with the operator to mitigate incident.
- **Strategy – Always defensive unless a life safety need is identified!**

### INCIDENT STABILIZATION

- Implement Hazardous Materials response protocols.
- All personnel operating in hazard zones should be in appropriate PPE, to include a personal mobile air monitoring device.
- Establish Hot, Warm, Cold Zones, and ERG zones.
- Exposure Concerns – Equipment, nearby structures, neighborhoods, roadways, etc.
- Monitor weather conditions, especially wind direction.
- Air monitoring for vulnerable areas and locations around incident.
- Conduct evacuations of citizens, bystanders, and resources at risk.
- Identify and address any water supply and/or foam requirements necessary to mitigate the incident.

### SPECIAL CONSIDERATIONS

- If evacuations are needed, coordinate with Weld County OEM before ordering an evacuation to establish evacuation routes, shelters, shelter in-place, and utilize IPAWS (reverse 9-1-1).
- Request mutual aid apparatus and equipment asap to minimize operational delays.
- Consider and address any potential impacts to critical receptors identified near the location.
- Consider requesting a HazMat Team if needed to assist with mitigation.
- Consider requiring a fire investigation for any fire and/or explosion.
- Keep the public and stakeholders informed of response activities.
- Notify FAA if Air Traffic restrictions are needed (requested through OEM)

## INDUSTRY RESPONSE OBJECTIVES

Ensure safety of the public, first responders, employees, and contractors. Minimize impact to the environment and local community. The following response objectives checklist shall be followed:

### SAFETY – PROTECT LIFE

- Evaluate and account for all personnel
- Isolate all potential ignition sources
- Establish site control (safe perimeter and evacuation routes)
- Contact emergency services as needed (911, Fire, LEPC)
- Identify hazard(s) of emitted material (obtain SDS)
- Implement air monitoring around impacted area
- Continually assess site hazards/risks

### RESPONSE – INCIDENT STABILIZATION

- Notify internal personnel and agencies
- Assign on-site liaison to the incident commander
- Establish Hot, Warm, Cold Zones, and ERG Zone
- Identify and establish staging area to support response operations
- Activate emergency shutdown procedures (ESD)
- Activate response action contractors for equipment and manpower as needed (e.g, Well Control, spill/HazMat clean-up, etc.)

### ENVIRONMENTAL – PROTECT THE ENVIRONMENT

- Identify, prioritize, and protect environmentally sensitive areas
- Verify if water has been impacted
- Implement waste handling, disposal and decontamination procedures as needed
- Contain and recover spilled materials
- Notify appropriate agencies

### SPECIAL CONSIDERATIONS

- Keep the public and stakeholders informed of response activities



## FACILITY INFORMATION

### Well Pad Liquid Storage:

- (4) Produced Water Tanks (BBL) – 750 BBLs/ea
- \*1 Barrel (BBL) = 42 Gallons

### Specific Facility Hazardous Conditions (chemicals on site)

Drilling	CALCIUM CHLORIDE	50lb Sack x 400-500
	D822 BASE FLUID	19,000gal Tank
	DMI WATE	Bulk Silo – 45 Tons
	DMI WATE	100lb Sack x 400
	GILSONITE	50lb Bag x 80
	LIME	50lb Bag x 300
	MAGMA FIBER	25lb Bag x 45
	MULTI-SEAL	40lb Bag x 160
	OIL BASED MUD	150-500bbl Tanks x 1,800-2,220 bbl
	PREMA – VIS PLUS	50lb Bag x 120
	PRIMARY EMULSIFIER	55gal Drum x 16-20
	SECONDARY EMULSIFIER	55gal Drum x 16-20
	LOW END RHEOLOGY MODIFIER	50lb Bag x 80
	RIG WASH	55gal Drum x 4
SAWDUST	40lb Bale x 40	
SOLTEX	50lb Bag x 80	
WALNUT SHELL M	50lb Bag x 80	
Completions /Hydraulic Fracturing Phase	HYDROCHLORIC ACID	16,000gal ATL Bulk
	HCR SYNTHETIC ACID	4,500gal Transport x 2
	SODIUM BICARBONATE	200-300lbs
	CALCIUM CHLORIDE	500bbl Capacity
	FRICITION REDUCER (FR)	6,400gal Capacity x 2
	BIOCIDE	6,400gal Capacity
	SODIUM CHLORITE	2,000gal Capacity
	SODIUM HYPOCHLORITE	2,000gal Capacity
PRODUCED WATER	500bbl x 4	
Production	EMULSION BREAKER	500gal Tank
	CORROSION INHIBITOR	550gal Tank
	METHANOL	330gal Tank x 3

### Is Water Supply Available on Location?

FIRE HYDRANTS
WATER STORAGE TANKS
(4) Produced Water Tanks (BBL) – 750 BBL