



**RUBY 7-J PAD OPERATIONS SAFETY MANAGEMENT PROGRAM**

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## **Article I.        Introduction**

### *Facility Information*

This document provides site-specific information for the Ruby 7-J Pad Form 2A as the Ruby 7-J Pad OGD. The information in this document relates specifically to the time during the construction, drilling, completion, and production of the thirty-two (32) proposed horizontal wells on this location.

The proposed location is Irrigated Crop located North of Hwy 14 between WCR 37 and WCR 39 with an access directly onto Highway 14. The pad will be in the NESW of Section 7, Township 7 North, Range 65 West zoned AG within Weld County's Near-Urban Planning Area. A 1041 WOGLA was filed as 1041WOGLA20-0073 on 10/20/2020 approved on 1/7/2021.

The proposed Pad will be approximately 13.9 acres, reduced to 11.2 acres after interim reclamation. The Pad is on Parcels 070907200002 and 070907000037 owned by the City of Thornton. The location is currently used for farming.

The proposed production facility equipment for the Ruby 7-J Pad will be located within the Working Pad Surface adjacent to the wells and will consist of 10 oil tanks, 2 water tanks, 2 multi-use tanks, 35 separators, 1 gas lift manifold, 4 Meters, 1 Instrument Air System, 4 vapor recovery units (VRU), 4 enclosed combustion devices (ECD), 4 gas compressors, 2 LACT Units, 7 Scrubbers, 3 Sumps, and proposed electrical and/or solar equipment.

<b>Phase</b>	<b>Duration (days)</b>	<b>Estimated Start Date</b>
Construction	30	1 <sup>st</sup> Quarter (January) 2022
Drilling	240	1 <sup>st</sup> Quarter (February) 2022
Completion	230	4 <sup>th</sup> Quarter (October) 2022
Flowback	90	2 <sup>nd</sup> Quarter (June) 2023
Production	25 Years	3 <sup>rd</sup> Quarter (September) 2023
Interim Reclamation	10	1 <sup>st</sup> Quarter (January) 2024*

\*or the first favorable growing season.

## **Article II.        Company Safety Program**

Bayswater has a written Employee Safety Manual that covers the following topics:

- HSE Management System & Statement of Safety Policy
- Emergency Response Plan
- Disaster Recovery Plan
- Alcohol, Drugs & Firearms
- Confined Space Entry
- De-pressuring Production Equipment
- Hydrate formation
- Electrical requirements
- Lock-out/Tag-out & Pre-Job Meetings
- Hot Work Permits



- Elevated Working Surfaces & Fall Protection
- Fire Prevention & Smoking/Open Flames
- First Aid & CPR Requirements
- HAZCOM, H2S & Asbestos
- Personal Protective Equipment (PPE) Requirements
- Crane & Hoist Safety
- Working Alone
- Spill Prevention & Control, SPCC reporting

Bayswater also has a Health, Safety & Environment Contractor's Expectation Manual that is updated and presented annually to all third party contractors that work for Bayswater on any of our oil and gas sites. This Contractor Expectation Manual covers most all of the topics covered in the Bayswater Employee Safety Manual listed above plus the following additional topics:

- Commercial Motor Vehicles & Drivers
- Oversized & Overweight Loads
- Transportation of Dangerous Goods
- Commercial Motor Vehicles & Drivers
- Oversized & Overweight Loads
- Transportation of Dangerous Goods
- Anchoring
- Atmospheric Monitoring
- Auxiliary Escape Line
- Back-up Posts and Tong Safety
- Blowout Preventers (BOPs)
- Boilers & Alternative Heating Equipment
- Chemical Drums & Portable Bulk Fuel Tanks
- Completions, Cementing, & Flowback (High Pressure Lines)
- Competent Supervision
- Diesel & Gas Powered Engines
- Draw-Works Brakes
- Drill Stem Testing (DST)
- Safe Operation Ratings
- Drilling Rig Derrick Raising & Lowering
- Extreme Weather Conditions
- Fixed Ladders
- Machine Guarding
- Pipe Racks
- Portable Heaters
- Riding Hoisting Equipment
- Rigging
- SIMOPS
- Swabbing
- Temporary Housing Facilities



- Traveling Blocks
- Weight Indicator
- Wireline Perforating
- Fusion of Plastic Pipe
- Hot-Tapping
- Isolation/Purging of Equipment, Pipe, or Pipelines
- Mechanical Fittings
- Pipeline & Road Crossings
- Regulated Pipelines
- Welding Steel Pipe

The acknowledgement of Bayswater's safety expectations is part of the third party contractor's requirement to be setup as and remain an approved vendor and such records are tracked and graded utilizing the ISNetworld Contractor Management Services to manage overall vendor risk and HSE performance.

Bayswater holds monthly Safety Meetings in their field office for all field and office personnel on various topics including required annual training topics noted below:

- Defensive Driving
- H<sub>2</sub>S, Hazard Gas Awareness
- Silica Exposure
- COVID-19, PPE, Bloodborne Pathogen, Respirator Wearer/Awareness
- HazCom /Confined Space Awareness
- Fall Protection User Training, OSHA Walking & working surface rule, Ladder Safety
- Electrical Awareness, Lockout/Tagout
- Trenching and Excavation Awareness Training
- Onsite Horizontal Facility startup procedure
- Fire safety, Hot Work Awareness
- HAZWOPER Awareness Level 1&2,
- Winter safety
- First Aid Training
- Bayswater Emergency Response Plan

A detailed written Pre-Startup Safety Review for Production Facility plan is utilized by the parties responsible for such startup and includes HSE Training, Facility Equipment, Civil & Structural standard, Mechanical, Electrical & Instrumentation testing, Pipeline Construction, Operations & Maintenance along with Action Items needed either Pre or Post Startup. Approvals by third party suppliers, construction vendors; automation, engineering, maintenance, lease operators and the Field Production Manager is required. A copy of the checklist is maintained in the field office and on the company server.

Bayswater's Management of Change (MOC) program is utilized where significant changes to the process, piping, equipment, flow path or operating conditions of the production facility are required. Any maintenance work, or replacement of like-kind equipment, does not require Change approval.



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Bayswater's MOC program requires approval from engineering, electrical/automation, environmental and the operations/field team. All MOC reviews will include all pertinent information related to the change. Any safety concerns are addressed prior to the change being implemented. MOC documents are stored on the Bayswater server, for all to access. Records will be saved for 5 years. All MOC documents can be provided within 7 days of any request. MOC documents remain unchanged or edited, if a change is required, another MOC review and document will be created.

**Article III.      Exhibits**

Bayswater's Management of Change Procedure and accompanying MOC Form are attached to this Operations Safety Management Program.



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## Management of Change Form

### PROJECT INITIATION

Bayswater Location:		MOC Request No:
Name of Person Submitting MOC:		Date:
Project Name:		
Proposed Implementation Date:	Proposed Completion Date:	
Is this a permanent change? <input type="checkbox"/> Yes <input type="checkbox"/> No If temporary what is proposed end date?		
Detailed Change Description (attach additional pages if necessary):		
Reason for Change:		

### ANTICIPATED CHANGE IMPACTS & MOC REVIEW: (Attach Supporting Documentation)

Activity	Applicable		Assigned To	Completed	
	Yes	No		Initials	Date
Environmental, Health & Safety Review	<input type="checkbox"/>	<input type="checkbox"/>			
Process & Mechanical Review	<input type="checkbox"/>	<input type="checkbox"/>			
Electrical/Automation Review	<input type="checkbox"/>	<input type="checkbox"/>			
Field Operations/Production Review	<input type="checkbox"/>	<input type="checkbox"/>			
Pre Start-Up Safety Review	<input type="checkbox"/>	<input type="checkbox"/>			
Notification and Training	<input type="checkbox"/>	<input type="checkbox"/>			

### APPROVALS

<b>Reviews Assigned and Approval to Proceed: (Sign &amp; Date)</b>			
Facilities Manager:		Date:	Field Superintendent: Date:
<b>Reviews Complete and Change Approved for Startup: (Sign &amp; Date)</b>			
Facilities Manager:		Date:	Field Superintendent: Date:

### CLOSURE

Type of Change	Description	Initials	Date
Temporary	<input type="checkbox"/> Returned to Original Condition		
	<input type="checkbox"/> Made Permanent		
	<input type="checkbox"/> Extended to:		
Permanent	<input type="checkbox"/> Completed and Operating		
All	<input type="checkbox"/> Cancelled		
	<input type="checkbox"/> After Start-up Action Items Completed		
<b>Action Items and Documentation Complete: (Sign &amp; Date)</b>			
Facilities Manager:		Date:	Field Superintendent: Date:



## **MANAGEMENT OF CHANGE PROCEDURE**

### **Objective:**

Evaluate and manage changes in operation procedures or facilities to ensure safety and environmental risks remain at an acceptable level and results of changes do not violate compliance with regulations.

### **Procedure:**

- Change in design, process or procedure must be identified
  - Confirm change identified actually changes one of the following
    - Change in process flow path
    - Equipment replacement with different type/model
    - Reconfiguration of piping
    - Adding or removing equipment
- Begin completing a “Management of Change” Form
- MOC Review Team must include
  - Environmental
  - Production/Field Operations
  - Automation/Electrical
  - Engineering
- Attach any drawings, procedures or any pertinent information when changes have been made.
- Where required: proper safety and health, technical and regulatory checklists are completed.
- Review Team must all sign off on MOC
- Change is implemented.
- Documentation is completed and filed

### **Verification & Record Keeping:**

- Internal/External Audits
- Any incidents associated with MOCs
- Number of MOCs