

State of Colorado
Energy & Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
Document Number: 403808324			
Date Received:			

SUNDRY NOTICE

This form is required for reports, updates, and requests as specified in the ECMC rules. It is also used to request changes to some aspects of approved permits for Wells and Oil and Gas Locations.

ECMC Operator Number: 47120 Contact Name Greg Hamilton
 Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (970) 515-1698
 Address: P O BOX 173779 Fax: ()
 City: DENVER State: CO Zip: 80217-3779 Email: Gregory_hamilton@oxy.com

FORM 4 SUBMITTED FOR:

Facility Type: WELL
 API Number : 05- 123 51929 00 ID Number: 483458
 Name: BLUE CHIP Number: 22-2HZ
 Location QtrQtr: SENW Section: 22 Township: 5N Range: 67W Meridian: 6
 County: WELD Field Name: WATTENBERG

Oil & Gas Location(s) and Oil & Gas Development Plan (OGDP) Information

Location(s)

Location ID	Location Name and Number
483325	BLUE CHIP 6-22HZ

OGDP(s)

OGDP ID	OGDP Name
482683	NORTH CORE OGDP

WELL LOCATION CHANGE OR AS-BUILT GPS REPORT

- Change of Location for Well * As-Built GPS Location Report As-Built GPS Location Report with Survey

* Well Location Change requires a new Plat.

SURFACE LOCATION GPS DATA Data must be provided for Change of Surface Location and As Built Reports.

Latitude _____ Longitude _____
 GPS Quality Value: _____ Type of GPS Quality Value: _____ Measurement Date: _____
 Well Ground Elevation: _____ feet (Required for change of Surface Location.)

WELL LOCATION CHANGE

Well plan is: _____ (Vertical, Directional, Horizontal)

Change of Surface Footage From :		FNL/FSL	FEL/FWL
		1493 FNL	2180 FWL
Change of Surface Footage To :			
Current Surface Location From	QtrQtr <u>SENW</u> Sec <u>22</u>	Twp <u>5N</u> Range <u>67W</u>	Meridian <u>6</u>
New Surface Location To	QtrQtr <u> </u> Sec <u> </u>	Twp <u> </u> Range <u> </u>	Meridian <u> </u>

Change of **Top of Productive Zone** Footage **From:**

470 FNL

145 FEL

Change of **Top of Productive Zone** Footage **To:**

**

Current **Top of Productive Zone** Location

Sec 22

Twp 5N

Range 67W

New **Top of Productive Zone** Location

Sec

Twp

Range

Change of **Base of Productive Zone** Footage **From:**

FNL

FEL

Change of **Base of Productive Zone** Footage **To:**

**

Current **Base of Productive Zone** Location

Sec

Twp

Range

New **Base of Productive Zone** Location

Sec

Twp

Range

Change of **Bottomhole** Footage **From:**

487 FNL

145 FWL

Change of **Bottomhole** Footage **To:**

**

Current **Bottomhole** Location

Sec 21

Twp 5N

Range 67W

** attach deviated drilling plan

New **Bottomhole** Location

Sec

Twp

Range

SAFETY SETBACK INFORMATION

Required for change of Surface Location.

Distance from Well to nearest:

Building: _____ Feet
 Building Unit: _____ Feet
 Public Road: _____ Feet
 Above Ground Utility: _____ Feet
 Railroad: _____ Feet
 Property Line: _____ Feet

INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit – as defined in 100 Series Rules.

SUBSURFACE MINERAL SETBACKS

Required for change of Top and/or Base of Productive Zone. Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? _____

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: _____ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: _____ Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: _____ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: _____ Feet

Exception Location

If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. _____

LOCATION CHANGE COMMENTS

Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

Field inspection will be conducted to document Rule 1004.c. compliance

Comments:

ENGINEERING AND ENVIRONMENTAL WORK

REPORT OF TEMPORARY ABANDONMENT

Describe the method used to ensure that the Well is closed to the atmosphere and the Operator's plans for future operation of the Well in the COMMENTS box below as required by Rule 434.b.(1).

REQUEST FOR TEMPORARY ABANDONMENT EXCEEDING 6 MONTHS

State the reason for the extension request and explain the Operator's plans for future operation of the Well in the COMMENTS box below as required by Rule 434.b.(3).

Date well temporarily abandoned _____

Has Production Equipment been removed from site? _____

Mechanical Integrity Test (MIT) required. Date of last MIT _____

TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK

Details of work must be described in full in the COMMENTS below or provided as an attachment.

NOTICE OF INTENT/REQUEST FOR APPROVAL Approximate Start Date 07/06/2024

SUBSEQUENT REPORT Date of Activity _____

<input type="checkbox"/> Bradenhead Plan	<input type="checkbox"/> Venting or Flaring (Rule 903)	<input type="checkbox"/> E&P Waste Mangement
<input type="checkbox"/> Change Drilling Plan	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Change		
<input type="checkbox"/> Underground Injection Control		
<input type="checkbox"/> Request approval of Reuse and Recycling Plan per Rule 905.a.(3). (Reuse and Recycling Plan must be attached.)		
<input type="checkbox"/> Request approval of Alternative Sampling Plan per Rule 909.j.(6). for this Pit. (Alternative Sampling Program must be attached.)		
<input checked="" type="checkbox"/> Other Request Pressure Blanket Approval		

Request that an existing produced water sample from the same formation be used per Rule 909.j.(6) to meet the requirements of Rule 909.j.(1)-(5) for this Well.

Pit ID _____ Pit Name _____

(No Sample Provided)

Subsequent well operations with heavy equipment (Rule 312)

(No Well Provided)

COMMENTS:

Kerr-McGee would like to request approval to conduct a hydraulic fracturing (frac) pressure blanket on this well, which is one of (11) horizontal wells on the Blue Chip 16-22HZ well pad (location 483325). This is one of four wells on the pad that will receive this treatment. Injection pressures will be less than fracture pressures. Fresh water will be injected into the Blue Chip 22-2HZ (API: 05-123-51929) at a maximum downhole gradient below 0.8 psi/ft. The planned volume of fresh water to inject is 2,500 bbls.

The temporary injection equipment will consist of quinniplex pumps, mixing tanks and storage tanks. A main treatment of surfactant-based chemicals will be injected to make good contact with the reservoir with the objective of improving oil and gas flow in the reservoir, especially after offset frac work at the nearby Vista 13-16HZ well pad (location 485057) is complete.

The surface pressure is dependent upon flow rate and friction loss in the tubulars. The surface pressure will be maintained such that frac gradient of 0.8 psi/ft is not eclipsed. Expected surface pressure are 2500-3500psi based on prior jobs. Exceeding 3300 psi is not expected at maximum injection rates. The Hazen-Williams correlation was used to estimate friction loss in the tubulars for varying rates to dictate maximum allowed surface pressure while keeping formation pressure below fracture pressure.

After injection is complete, the combined pad of three wells will be placed on production using the existing plunger lift as well as existing permanent gas lift equipment.

Estimated start date is July 6, 2024.

Please see attached procedure.

Related location sundry:
Blue Chip 6-22HZ – Sundry 403807591

Related frac pressure blanket sundries:
Blue Chip 22-1HZ – Sundry 403808295
Blue Chip 22-2HZ – Sundry 403808324
Blue Chip 22-3HZ – Sundry 403808327
Blue Chip 22-4HZ – Sundry 403831211

GAS CAPTURE

VENTING AND FLARING:

Operation type: _____ Operational phase requiring venting/flaring: _____

Reason for venting/flaring: _____

Describe Other reason for venting/flaring:

Describe why venting or flaring is necessary. If reporting per Rule 903.b.(2), 903.c.(3).C, or 903.d.(2), include the explanation, rationale, and cause of the event:

Describe how the operation will protect and minimize adverse impacts to public health, safety, welfare, the environment, and wildlife resources. If reporting per Rule 903.d.(2), include BMPs used to minimize venting on the BMP Tab:

Total volume of gas vented or flared: _____ mcf estimated measured

Total duration of emission event: _____ hours consecutive cumulative

Submit a single representative gas analysis via Form 43 to create a Sample Site Facility ID# for this Location. Reference the Form 43 document number on the Related Forms tab.

Sample Site Facility ID#: _____

GAS CAPTURE PLAN

Describe the plan to connect to a gathering line or beneficially use the gas; include anticipated timeline:

A Gas Capture Plan that meets the requirements of Rule 903.e is attached.

CASING PROGRAM

(No Casing Provided)

POTENTIAL FLOW AND CONFINING FORMATIONS

H2S REPORTING

Intentional release of H2S gas due to Upset Condition or malfunction.

Intent to temporarily abandon well with potential H2S concentration >100 ppm.

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: _____ in ppm (parts per million)

Date of Measurement or Sample Collection _____

Description of Sample Point:

Absolute Open Flow Potential _____ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: _____

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: _____

COMMENTS:

OIL & GAS LOCATION UPDATES

OGDP ID _____ OGDP Name _____

SITE EQUIPMENT LIST UPDATES

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells _____	Oil Tanks _____	Condensate Tanks _____	Water Tanks _____	Buried Produced Water Vaults _____
Drilling Pits _____	Production Pits _____	Special Purpose Pits _____	Multi-Well Pits _____	Modular Large Volume Tank _____
Pump Jacks _____	Separators _____	Injection Pumps _____	Heater-Treaters _____	Gas Compressors _____
Gas or Diesel Motors _____	Electric Motors _____	Electric Generators _____	Fuel Tanks _____	LACT Unit _____
Dehydrator Units _____	Vapor Recovery Unit _____	VOC Combustor _____	Flare _____	Enclosed Combustion Devices _____
Meter/Sales Building _____	Pigging Station _____		Vapor Recovery Towers _____	

OTHER PERMANENT EQUIPMENT UPDATES

OTHER TEMPORARY EQUIPMENT UPDATES

CULTURAL AND SAFETY SETBACK UPDATES

OTHER LOCATION CHANGES AND UPDATES

Provide a description of other changes or updates to technical information for this Location:

[Empty text box]

POTENTIAL OGDG UPDATES

PROPOSED CHANGES TO AN APPROVED OGDG

This Sundry Form 4 is being submitted pursuant to Rule 301.c to propose changes to an approved Oil and Gas Development Plan.

Check all boxes that pertain to the type(s) of changes being proposed for this OGDG:

- Add Oil and Gas Location(s)
- Add Drilling and Spacing Unit(s)
- Amend Oil and Gas Location(s)
- Amend Drilling and Spacing Unit(s)
- Remove Oil and Gas Location(s)
- Remove Drilling and Spacing Unit(s)
- Oil and Gas Location attachment or plan updates
- Amend the lands subject to the OGDG
- Other

Provide a detailed description of the changes being proposed for this OGDG. Attach supporting documentation such as maps if necessary.

[Empty text box]

Best Management Practices

No BMP/COA Type

Description

Operator Comments:

Kerr-McGee would like to request approval to conduct a hydraulic fracturing (frac) pressure blanket on this well, which is one of (11) horizontal wells on the Blue Chip 16-22HZ well pad (location 483325). This is one of four wells on the pad that will receive this treatment. Injection pressures will be less than fracture pressures. Fresh water will be injected into the Blue Chip 22-2HZ (API: 05-123-51929) at a maximum downhole gradient below 0.8 psi/ft. The planned volume of fresh water to inject is 2,500 bbls.

The temporary injection equipment will consist of quinniplex pumps, mixing tanks and storage tanks. A main treatment of surfactant-based chemicals will be injected to make good contact with the reservoir with the objective of improving oil and gas flow in the reservoir, especially after offset frac work at the nearby Vista 13-16HZ well pad (location 485057) is complete.

The surface pressure is dependent upon flow rate and friction loss in the tubulars. The surface pressure will be maintained such that frac gradient of 0.8 psi/ft is not eclipsed. Expected surface pressure are 2500-3500psi based on prior jobs. Exceeding 3300 psi is not expected at maximum injection rates. The Hazen-Williams correlation was used to estimate friction loss in the tubulars for varying rates to dictate maximum allowed surface pressure while keeping formation pressure below fracture pressure.

After injection is complete, the combined pad of three wells will be placed on production using the existing plunger lift as well as existing permanent gas lift equipment.

Estimated start date is July 6, 2024.

Please see attached procedure.

Related location sundry:
Blue Chip 6-22HZ – Sundry 403807591

Related frac pressure blanket sundries:
Blue Chip 22-1HZ – Sundry 403808295
Blue Chip 22-2HZ – Sundry 403808324
Blue Chip 22-3HZ – Sundry 403808327
Blue Chip 22-4HZ – Sundry 403831211

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Greg Hamilton
 Title: Sr Regulatory Consultant Email: Gregory_hamilton@oxy.com Date: _____

Based on the information provided herein, this Sundry Notice (Form 4) complies with ECMC Rules and applicable orders and is hereby approved.

ECMC Approved: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY LIST

<u>COA Type</u>	<u>Description</u>
0 COA	

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
403824862	WELLBORE DIAGRAM
403830007	AERIAL PHOTOGRAPH
403831438	PROPOSED PROCEDURE

Total Attach: 3 Files