

**FORM
INSP**Rev
X/20**State of Colorado
Oil and Gas Conservation Commission**1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109

Inspection Date:

08/09/2022

Submitted Date:

08/09/2022

Document Number:

697006324

FIELD INSPECTION FORM

| | | | | |
|---|----------------------------------|---|-------------------|--|
| Loc ID 446104 | Inspector Name: Peterson, Tom | On-Site Inspection <input type="checkbox"/> | 2A Doc Num: _____ | Status Summary: <input type="checkbox"/> THIS IS A FOLLOW UP INSPECTION <input checked="" type="checkbox"/> FOLLOW UP INSPECTION REQUIRED <input type="checkbox"/> NO FOLLOW UP INSPECTION REQUIRED |
| Operator Information: OGCC Operator Number: 10542 Name of Operator: CUB CREEK ENERGY Address: 200 PLAZA DRIVE SUITE 100 City: HIGHLANDS State: CO Zip: 80129 | | | | Findings: 33 Number of Comments 4 Number of Corrective Actions <input checked="" type="checkbox"/> Corrective Action Response Requested ANY CORRECTIVE ACTION(S) FROM PREVIOUS INSPECTIONS THAT HAVE NOT BEEN ADDRESSED ARE STILL APPLICABLE |

Contact Information:

| Contact Name | Phone | Email | Comment |
|---------------|-------|----------------------------|---------------------------------|
| Rico, Trenton | | trenton.rico@cub-creek.com | |
| Baily, Scott | | scott.baily@cub-creek.com | All Inspections |

Inspected Facilities:

| Facility ID | Type | Status | Status Date | Well Class | API Num | Facility Name | Insp Status |
|-------------|------|--------|-------------|------------|-----------|---------------|-------------|
| 446099 | WELL | PR | 01/31/2017 | OW | 123-43242 | MARKHAM 10 | PR |
| 446100 | WELL | PR | 01/19/2017 | OW | 123-43243 | MARKHAM 4 | PR |
| 446101 | WELL | PR | 09/01/2020 | OW | 123-43244 | MARKHAM 6 | PR |
| 446102 | WELL | PR | 10/01/2021 | OW | 123-43245 | MARKHAM 7 | PR |
| 446103 | WELL | PR | 09/01/2020 | OW | 123-43246 | MARKHAM 9 | PR |
| 446105 | WELL | PR | 09/01/2020 | OW | 123-43247 | MARKHAM 5 | PR |
| 446106 | WELL | PR | 04/17/2018 | OW | 123-43248 | MARKHAM 8 | PR |
| 446107 | WELL | PR | 09/01/2020 | OW | 123-43249 | MARKHAM 3 | PR |
| 446207 | WELL | PR | 02/08/2017 | OW | 123-43274 | MARKHAM 12 | PR |
| 446208 | WELL | PR | 09/01/2020 | OW | 123-43275 | MARKHAM 11 | PR |
| 447875 | WELL | PR | 03/19/2018 | OW | 123-43649 | MARKHAM 2 | PR |
| 447876 | WELL | SI | 04/01/2022 | OW | 123-43650 | MARKHAM 1 | PR |

General Comment:

Location

Overall Good: ☒

| | | | |
|----------------------|---|-------|------------|
| Signs/Marker: | | | |
| Type | CONTAINERS | | |
| Comment: | Methanol and chemical systems, lube oil storage. | | |
| Corrective Action: | | Date: | |
| Type | BATTERY | | |
| Comment: | | | |
| Corrective Action: | | Date: | |
| Type | OTHER | | |
| Comment: | Lease road entrance | | |
| Corrective Action: | | Date: | |
| Type | TANK LABELS/PLACARDS | | |
| Comment: | Crude oil tanks contents and NFPA placards too small to read at distance, see attached photos | | |
| Corrective Action: | Install sign to comply with Rule 605.h. | Date: | 11/11/2022 |
| Type | TANK LABELS/PLACARDS | | |
| Comment: | Vault at compressor lacks placards, see attached photo. | | |
| Corrective Action: | Install sign to comply with Rule 605.h. | Date: | 11/11/2022 |
| Type | WELLHEAD | | |
| Comment: | x 12 | | |
| Corrective Action: | | Date: | |

Emergency Contact Number:

Comment:

Corrective Action:

Date: _____

Overall Good: ☒

| | | | | |
|----------------|------|--------|--|--|
| Spills: | | | | |
| Type | Area | Volume | | |

In Containment: No

Comment:

☐ Multiple Spills and Releases?

| | | | |
|--------------------|--------------------------|-------|--|
| Fencing/: | | | |
| Type | LOCATION | | |
| Comment: | Chain link | | |
| Corrective Action: | | Date: | |
| Type | OTHER | | |
| Comment: | Soundwalls at compressor | | |
| Corrective Action: | | Date: | |

| | | | |
|-----------------------------------|---|--|------------------|
| Equipment: | | | corrective date |
| Type: Plunger Lift | # 2 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: Gas Meter Run | # 2 | | |
| Comment: | DCP gas sales meter calibration is outdated. Meter not calibrated annually, see attached photo. | | |
| Corrective Action: | Calibrate gas metering equipment annually to comply with rule 430.d.(1). | | Date: 11/11/2022 |
| Type: Prime Mover | # 3 | | |
| Comment: | Natural gas engines on compressor, genset and VRU | | |
| Corrective Action: | | | Date: |
| Type: LACT | # 1 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: Compressor | # 1 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: Ancillary equipment | # | | |
| Comment: | Automation arrays, solar array, genset, electrical systems, ECD scrubbers, bulk lube oil storage in secondary containment with wildlife netting, recirculation pump, supplied air compressors, chemical and methanol systems in secondary containment | | |
| Corrective Action: | | | Date: |
| Type: Horizontal Heated Separator | # 13 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: VRU | # 1 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: Prime Mover | # 5 | | |
| Comment: | Electric motors on supplied air compressors, recirculation pump and LACT | | |
| Corrective Action: | | | Date: |
| Type: Pig Station | # 2 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: Flow Line | # 12 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: Bird Protectors | # 17 | | |
| Comment: | | | |
| Corrective Action: | | | Date: |
| Type: VRT | # 1 | | |

| | | | | |
|--|-----|--|-------|------------|
| Comment: | | | Date: | |
| Corrective Action: | | | Date: | |
| Type: Emission Control Device | # 4 | | | |
| Comment: Pilots are on | | | Date: | |
| Corrective Action: | | | Date: | |
| Type: Vertical Separator | # 4 | | | |
| Comment: | | | Date: | |
| Corrective Action: | | | Date: | |
| Type: Ancillary equipment | # | | | |
| Comment: Methanol storage at genset lacks wildlife protection, see attached photo. | | | Date: | 11/11/2022 |
| Corrective Action: Install or repair wildlife protection equipment. | | | Date: | |
| Type: Gathering Line | # 1 | | | |
| Comment: | | | Date: | |
| Corrective Action: | | | Date: | |

Tanks and Berms:

| Contents | # | Capacity | Type | Tank ID | SE GPS |
|--------------------|---|-----------|--------------|---------|--------|
| PRODUCED WATER | 1 | <100 BBLS | PBV CONCRETE | | , |
| Comment: 60 bbls | | | | | |
| Corrective Action: | | | | | Date: |

Paint

| | | |
|------------------|----------|--|
| Condition | Adequate | |
| Other (Content) | | |
| Other (Capacity) | | |
| Other (Type) | | |

Berms

| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance |
|---------------------|----------|---------------------|---------------------|-------------|
| Metal | Adequate | Walls Sufficient | Base Sufficient | Adequate |
| Comment: Lined berm | | | | |
| Corrective Action: | | | | Date: |

| Contents | # | Capacity | Type | Tank ID | SE GPS |
|---|---|----------|----------------|---------|--------|
| OTHER | 1 | <50 BBLS | PBV FIBERGLASS | | , |
| Comment: Unknown capacity at compressor | | | | | |
| Corrective Action: | | | | | Date: |

Paint

| | | |
|------------------|----------|--|
| Condition | Adequate | |
| Other (Content) | | |
| Other (Capacity) | | |
| Other (Type) | | |

Berms

Inspector Name: Peterson, Tom

| | | | | | |
|--------------------|---------------|---------------------|---------------------|-------------|--------|
| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance | |
| Metal | Adequate | Walls Sufficent | Base Sufficent | Adequate | |
| Comment: | | | | | |
| Corrective Action: | | | | | Date: |
| Contents | # | Capacity | Type | Tank ID | SE GPS |
| CONDENSATE | 1 | <50 BBLS | PBV FIBERGLASS | | , |
| Comment: | 5 bbls at VRU | | | | |
| Corrective Action: | | | | | Date: |
| <u>Paint</u> | | | | | |
| Condition | Adequate | | | | |
| Other (Content) | | | | | |
| Other (Capacity) | | | | | |
| Other (Type) | | | | | |
| <u>Berms</u> | | | | | |
| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance | |
| Metal | Adequate | Walls Sufficent | Base Sufficent | Adequate | |
| Comment: | | | | | |
| Corrective Action: | | | | | Date: |
| Contents | # | Capacity | Type | Tank ID | SE GPS |
| PRODUCED WATER | 2 | 400 BBLS | STEEL AST | | , |
| Comment: | | | | | |
| Corrective Action: | | | | | Date: |
| <u>Paint</u> | | | | | |
| Condition | Adequate | | | | |
| Other (Content) | | | | | |
| Other (Capacity) | | | | | |
| Other (Type) | | | | | |
| <u>Berms</u> | | | | | |
| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance | |
| Metal | Adequate | Walls Sufficent | Base Sufficent | Adequate | |
| Comment: | Lined berm | | | | |
| Corrective Action: | | | | | Date: |
| Contents | # | Capacity | Type | Tank ID | SE GPS |
| CRUDE OIL | 8 | 400 BBLS | STEEL AST | | , |
| Comment: | | | | | |
| Corrective Action: | | | | | Date: |
| <u>Paint</u> | | | | | |
| Condition | Adequate | | | | |
| Other (Content) | | | | | |
| Other (Capacity) | | | | | |

| | | | | | |
|-------------------------------------|----------|---------------------|---------------------|-------------|-------|
| Other (Type) | | | | | |
| Berms | | | | | |
| Type | Capacity | Permeability (Wall) | Permeability (Base) | Maintenance | |
| Metal | Adequate | Walls Sufficent | Base Sufficent | Adequate | |
| Comment: Lined berm | | | | | |
| Corrective Action: | | | | | Date: |
| Venting: | | | | | |
| Yes/No | NO | | | | |
| Comment: | | | | | |
| Corrective Action: | | | | | Date: |
| Flaring: | | | | | |
| Type | | | | | |
| Comment: | | | | | |
| Corrective Action: | | | | | Date: |

Inspected Facilities

Facility ID: 446099 Type: WELL API Number: 123-43242 Status: PR Insp. Status: PR

Producing WellComment: PR

Corrective Action:

Date:

BradenHeadDate of Last Brhd Test: 12/09/2021 Annual Brhd Completed? YesLast Brhd Test Results Initial Surf Csg Pressure: 40 Fluid Type: NONEEnd Surf Csg Pressure: 0

Comment:

Corrective Action:

Date:

Facility ID: 446100 Type: WELL API Number: 123-43243 Status: PR Insp. Status: PR

Producing WellComment: PR

Corrective Action:

Date:

BradenHeadDate of Last Brhd Test: 12/09/2021 Annual Brhd Completed? YesLast Brhd Test Results Initial Surf Csg Pressure: 0 Fluid Type: NONEEnd Surf Csg Pressure: 0

Comment:

Corrective Action:

Date:

Facility ID: 446101 Type: WELL API Number: 123-43244 Status: PR Insp. Status: PR

Producing WellComment: PR

Corrective Action:

Date:

BradenHeadDate of Last Brhd Test: 12/09/2021 Annual Brhd Completed? YesLast Brhd Test Results Initial Surf Csg Pressure: 40 Fluid Type: NONEEnd Surf Csg Pressure: 0

Comment:

Corrective Action:

Date:

Facility ID: 446102 Type: WELL API Number: 123-43245 Status: PR Insp. Status: PR

Producing WellComment: PR

Corrective Action:

Date:

BradenHead

Date of Last Brhd Test: 12/09/2021 Annual Brhd Completed? Yes

Last Brhd Test Results Initial Surf Csg Pressure: 15 Fluid Type: NONE

End Surf Csg Pressure: 0

Comment: Corrective Action: Date:

Facility ID: 446103 Type: WELL API Number: 123-43246 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Corrective Action: Date: **BradenHead**

Date of Last Brhd Test: 12/09/2021 Annual Brhd Completed? Yes

Last Brhd Test Results Initial Surf Csg Pressure: 5 Fluid Type: NONE

End Surf Csg Pressure: 0

Comment: Corrective Action: Date:

Facility ID: 446105 Type: WELL API Number: 123-43247 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Corrective Action: Date: **BradenHead**

Date of Last Brhd Test: 12/09/2021 Annual Brhd Completed? Yes

Last Brhd Test Results Initial Surf Csg Pressure: 0 Fluid Type: NONE

End Surf Csg Pressure: 0

Comment: Corrective Action: Date:

Facility ID: 446106 Type: WELL API Number: 123-43248 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Corrective Action: Date: **BradenHead**

Date of Last Brhd Test: 12/09/2021 Annual Brhd Completed? Yes

Last Brhd Test Results Initial Surf Csg Pressure: 5 Fluid Type: NONE

End Surf Csg Pressure: 0

Comment: Corrective Action: Date:

| | | | | |
|---------------------|------------|-----------------------|------------|------------------|
| Facility ID: 446107 | Type: WELL | API Number: 123-43249 | Status: PR | Insp. Status: PR |
|---------------------|------------|-----------------------|------------|------------------|

Producing Well

Comment: PR

Corrective Action:

Date:

BradenHead

Date of Last Brhd Test: 12/09/2021 Annual Brhd Completed? Yes

Last Brhd Test Results Initial Surf Csg Pressure: 35 Fluid Type: NONE

End Surf Csg Pressure: 0

Comment:

Corrective Action:

Date:

| | | | | |
|---------------------|------------|-----------------------|------------|------------------|
| Facility ID: 446207 | Type: WELL | API Number: 123-43274 | Status: PR | Insp. Status: PR |
|---------------------|------------|-----------------------|------------|------------------|

Producing Well

Comment: PR

Corrective Action:

Date:

BradenHead

Date of Last Brhd Test: 07/25/2022 Annual Brhd Completed? Yes

Last Brhd Test Results Initial Surf Csg Pressure: 0 Fluid Type: NONE

End Surf Csg Pressure: 0

Comment:

Corrective Action:

Date:

| | | | | |
|---------------------|------------|-----------------------|------------|------------------|
| Facility ID: 446208 | Type: WELL | API Number: 123-43275 | Status: PR | Insp. Status: PR |
|---------------------|------------|-----------------------|------------|------------------|

Producing Well

Comment: PR

Corrective Action:

Date:

BradenHead

Date of Last Brhd Test: 12/09/2021 Annual Brhd Completed? Yes

Last Brhd Test Results Initial Surf Csg Pressure: 0 Fluid Type: NONE

End Surf Csg Pressure: 0

Comment:

Corrective Action:

Date:

| | | | | |
|---------------------|------------|-----------------------|------------|------------------|
| Facility ID: 447875 | Type: WELL | API Number: 123-43649 | Status: PR | Insp. Status: PR |
|---------------------|------------|-----------------------|------------|------------------|

Producing Well

Comment: PR

Corrective Action:

Date:

BradenHeadDate of Last Brhd Test: 12/09/2021 Annual Brhd Completed? YesLast Brhd Test Results Initial Surf Csg Pressure: 45 Fluid Type: NONEEnd Surf Csg Pressure: 0Comment: Corrective Action: Date: Facility ID: 447876 Type: WELL API Number: 123-43650 Status: SI Insp. Status: PR**Producing Well**Comment: PRCorrective Action: Date: **BradenHead**Date of Last Brhd Test: 12/09/2021 Annual Brhd Completed? YesLast Brhd Test Results Initial Surf Csg Pressure: 10 Fluid Type: NONEEnd Surf Csg Pressure: 0Comment: Corrective Action: Date:

Reclamation - Storm Water - Pit**Storm Water:**

| Loc Erosion BMPs | BMP Maintenance | Lease Road Erosion BMPs | Lease BMP Maintenance | Chemical BMPs | Chemical BMP Maintenance | Comment |
|------------------|-----------------|-------------------------|-----------------------|-----------------|--------------------------|---------|
| Gravel | Pass | Gravel | Pass | Self Inspection | Pass | |

Comment: Corrective Action: Date: **Pits:** ☐ NO SURFACE INDICATION OF PIT**COGCC Comments**

| Comment | User | Date |
|--|-----------|------------|
| <p>COGCC Inspection Report Summary</p> <p>On Tuesday 8/9/2022 at approximately 09:30 hours, I, Inspector Tom Peterson, conducted an on-site inspection at the Cub Creek Energy Markham Pad location #446104 in Weld County, Colorado.</p> <p>While there, I observed that the DCP gas sales meter calibration was outdated, the crude oil tanks contents and NFPA placards were inadequately sized, the compressor vault lacked all placards, and the methanol storage lacked adequate wildlife protections. During this inspection the following possible compliance issues were observed: Rule 430.d.(1). with a corrective action date of 11/11/2022, Rule 605.h. with a corrective action date of 11/11/2022, Rule 902.b. with a corrective action date of 11/11/2022.</p> <p>A follow up on this site inspection needs to be conducted to ensure the compliance issues have been corrected to comply with COGCC rules.</p> <p>This is a summary of the inspection report.</p> | petersont | 08/09/2022 |

Attached DocumentsYou can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

| Document Num | Description | URL |
|--------------|-------------|---|
| 697006325 | Photos | http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=5824548 |