

**FORM
INSP**

Rev
X/15

**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:

03/08/2019

Submitted Date:

03/12/2019

Document Number:

682504582

FIELD INSPECTION FORM

Loc ID 452871 Inspector Name: Trujillo, Aaron On-Site Inspection 2A Doc Num: _____

Status Summary:

- THIS IS A FOLLOW UP INSPECTION
- FOLLOW UP INSPECTION REQUIRED
- NO FOLLOW UP INSPECTION REQUIRED

Operator Information:

OGCC Operator Number: 10661
Name of Operator: BISON OIL & GAS II LLC
Address: 518 17TH STREET #1800
City: DENVER State: CO Zip: 80202

Findings:

- 16 Number of Comments
- 5 Number of Corrective Actions
- 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
		aakers@bisonog.com	
Arthur, Denise		denise.arthur@state.co.us	
O&G, Bison	720-644-6997	ops@bisonog.com	All inspections

Inspected Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
452981	WELL	PR	02/14/2018	OW	123-45842	Castor 8-59 19-24-12	RI
452982	WELL	XX	11/09/2017		123-45843	Castor Fed 8-59 19-24-5	ND
452983	WELL	XX	11/09/2017		123-45844	Castor 8-59 19-24-11	ND
452984	WELL	XX	11/09/2017		123-45845	Castor Fed 8-59 19-24-8	ND
452985	WELL	XX	11/09/2017		123-45846	Castor Fed 8-59 19-24-1	ND
452986	WELL	XX	11/09/2017		123-45847	Castor Fed 8-59 19-24-2	ND
452987	WELL	XX	11/09/2017		123-45848	Castor Fed 8-59 19-24-6	ND
452988	WELL	XX	11/09/2017		123-45849	Castor 8-59 19-24-9	ND
452989	WELL	XX	11/09/2017		123-45850	Castor Fed 8-59 19-24-4	ND
452990	WELL	XX	11/09/2017		123-45851	Castor Fed 8-59 19-24-7	ND
452991	WELL	XX	11/09/2017		123-45852	Castor Fed 8-59 19-24-3	ND
452992	WELL	XX	11/09/2017		123-45853	Castor 8-59 19-24-14	ND
452993	WELL	XX	11/09/2017		123-45854	Castor 8-59 19-24-15	ND
452994	WELL	PR	02/14/2018	OW	123-45855	Castor 8-59 19-24-16	RI
452995	WELL	XX	11/09/2017		123-45856	Castor 8-59 19-24-13	ND
452996	WELL	XX	11/09/2017		123-45857	Castor 8-59 19-24-10	ND

General Comment:

This is an inteirm reclamation and stormwater inspection in response to a 502.b delayed interim reclamation variance request.

Operator submitted doc. #401844836 on 12/11/2018 requesting that interim reclamation be delayed for a duration not to exceed two (2) years.

This inspection is to identify the current conditions of the location and/or any concerns that may exist, and is part of the detailed technical review process per the operator guidance document.

Please note that the submission of a variance request does not guarantee approval. The COGCC will provide notice to Operator once an official decision has been made.

Any corrective action(s) from previous inspections that have not been addressed will remain applicable.

Location

Overall Good:

Emergency Contact Number:

Comment:

Corrective Action:

Date: _____

Good Housekeeping:

Type	STORAGE OF SUPL		
Comment:	Two (2) 300 gallon tanks stored on the southeast corner of the location are insufficiently stored in accordance with good housekeeping and 1002.f(2).B; Insufficient secondary containment.		
Corrective Action:	Properly store materials in accordance with good housekeeping and proper materials management.	Date:	03/26/2019

Overall Good:

Spills:

Type	Area	Volume		
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In Containment: No

Comment:

Multiple Spills and Releases?

Venting:

Yes/No			
Comment:			
Corrective Action:		Date:	

Flaring:

Type		
Comment:		
Corrective Action:		Date:

Location Construction

Location ID: 452871 CDP: _____

Comment: _____

Corrective Action: **A disturbance area of 14.5 acres was mapped on 03/08/2019 via Trimble Juno 3B unit; this EXCEEDS the approved Form 2A for the permitted disturbance area of 12.2 acres.**

Date: _____

Form 2A COAs:

Comment: _____

Corrective Action: _____

Date: _____

Wildlife BMPs:

Comment: _____

Corrective Action: _____

Date: _____

Comment: _____

Corrective Action: _____

Date: _____

On Site Inspection (305):

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

Operator Rep. Contact Information:

Landman Name: _____ Phone Number: _____

Date Onsite Request Received: _____ Date of Rule 306 Consultation: _____

Request LGD Attendance: _____

LGD Contact Information:

Name: _____ Phone Number: _____ Agreed to Attend: _____

Summary of Landowner Issues:

Summary of Operator Response to Landowner Issues:

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

Inspected Facilities

Facility ID: <u>452981</u>	Type: <u>WELL</u>	API Number: <u>123-45842</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>452982</u>	Type: <u>WELL</u>	API Number: <u>123-45843</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452983</u>	Type: <u>WELL</u>	API Number: <u>123-45844</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452984</u>	Type: <u>WELL</u>	API Number: <u>123-45845</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452985</u>	Type: <u>WELL</u>	API Number: <u>123-45846</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452986</u>	Type: <u>WELL</u>	API Number: <u>123-45847</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452987</u>	Type: <u>WELL</u>	API Number: <u>123-45848</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452988</u>	Type: <u>WELL</u>	API Number: <u>123-45849</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452989</u>	Type: <u>WELL</u>	API Number: <u>123-45850</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452990</u>	Type: <u>WELL</u>	API Number: <u>123-45851</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452991</u>	Type: <u>WELL</u>	API Number: <u>123-45852</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452992</u>	Type: <u>WELL</u>	API Number: <u>123-45853</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452993</u>	Type: <u>WELL</u>	API Number: <u>123-45854</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452994</u>	Type: <u>WELL</u>	API Number: <u>123-45855</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>452995</u>	Type: <u>WELL</u>	API Number: <u>123-45856</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>452996</u>	Type: <u>WELL</u>	API Number: <u>123-45857</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: _____ Date Interim Reclamation Completed: _____

Land Use: RANGELAND

Comment: _____

1002 SITE PREPARATION AND STABILIZATION

1002a. FENCING _____

Comment _____

Corrective Action _____

Date _____

1002b. SOIL REMOVAL AND SEGREGATION _____

Comment _____

Corrective Action _____

Date _____

1002c. PROTECTION OF SOILS **Fail** _____

Comment **Rule 1002.c requires operators to implement best management practices to prevent weed establishment on all stockpiled soils. Operator has allowed undesirable weedy plant species such as Salsola sp. to establish on the topsoil stockpile on the south end of the location.**

Corrective Action **Conduct weed management and comply with Rule 1002.c.**

Date **04/12/2019**

1002E. SURFACE DISTURBANCE MINIMIZATION _____

Comment _____

Corrective Action _____

Date _____

1003a. Waste and Debris removed? **Fail** _____

Comment **Various trash debris (boxes w/ material, pallet) observed on the interim areas on the east end of the location.**

Corrective Action **Comply with 603.f "good housekeeping" and 1003a. Remove and properly store or dispose of trash and debris from location.**

Date **04/12/2019**

Unused or unneeded equipment onsite? _____

Comment _____

Corrective Action _____

Date _____

Pit, cellars, rat holes and other bores closed? _____

Comment _____

Corrective Action _____

Date _____

Guy line anchors marked? _____

Comment _____

Corrective Action _____

Date _____

1003b. Area no longer in use? _____ Production areas stabilized ? _____
 1003c. Compacted areas have been cross ripped? _____
 1003d. Drilling pit closed? _____ Subsidence over on drill pit? _____
 Cuttings management: _____
 1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? _____
 Production areas have been stabilized? _____ Segregated soils have been replaced? _____

RESTORATION AND REVEGETATION

Cropland

Top soil replaced _____ Recontoured _____ Perennial forage re-established _____

Non-Cropland

Top soil replaced _____ Recontoured _____ 80% Revegetation _____

1003e. INTERIM VEGETATION TRANSECT
 TRANSECT RESULTS OF DISTURBED AREA% _____
 TRANSECT RESULTS OF REFERENCE AREA% _____
 TOTAL % OF DESIRABLE VEGETATION COVER _____
 VEGETATIVE COVER _____

1003 f. Weeds Noxious weeds? _____

Comment This inspection is in response to a 502.b variance request for delayed reclamation. This inspection is to identify the current conditions of the location and/or any concerns that may exist, and is part of the detailed technical review process per the operator guidance document.

Corrective Action Date _____

Overall Interim Reclamation

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: _____ Date Final Reclamation Completed: _____

Final Land Use: RANGELAND _____

Reminder: _____

Comment:

Well plugged _____ Pit mouse/rat holes, cellars backfilled _____

Debris removed _____ No disturbance /Location never built _____

Access Roads Regraded _____ Contoured _____ Culverts removed _____

Gravel removed _____

Location and associated production facilities reclaimed _____ Locations, facilities, roads, recontoured _____

Compaction alleviation _____ Dust and erosion control _____

Non cropland: Revegetated 80% _____ Cropland: perennial forage _____

Weeds present _____ Subsidence _____

1004.d. FINAL VEGETATION TRANSECT
 TRANSECT RESULTS OF DISTURBED AREA% _____
 TRANSECT RESULTS OF REFERENCE AREA% _____
 TOTAL % OF DESIRABLE VEGETATION COVER _____
 VEGETATIVE COVER _____

Comment:

Corrective Action: Date _____

Overall Final Reclamation Well Release on Active Location Multi-Well Location

Storm Water:						
Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Berms	Fail					SW of location, insufficient discharge point.
Sediment Traps	In Process					Two sediment traps on NW/NE corners of location
Berms	Pass					Berms along northern perimeter of location
				Material Handling And Spill Prevention	Fail	2- 300 ga tanks of lubricant, SE corner of pad
Gravel	Pass					Gravel along northern perimeter of location

Comment: It does not appear that the perimeter stormwater and erosion controls installed on location are sufficient to mitigate stormwater runoff from the 14.5 acre disturbance.
 See "COGCC Comments" for additional comments regarding stormwater.
 See "Good Housekeeping" for comments regarding "Material Handling and Spill Prevention".

Corrective Action: If the Operator believes sufficient BMPs have been installed, then provide calculations from the site specific stormwater plan demonstrating that the installed BMPs are sufficient to prevent sediment laden storm runoff from leaving the location.
 If the operator determines that the current BMPs are insufficient, provide a site specific stormwater plan with specifications for controls that will be installed in order to bring location into compliance with Rule 1002.f(2).
 Operator will be required to submit the stormwater plan via a Form 4 by 3/26/2019.
 The installation and/or repair of stormwater and erosion control BMPs in accordance with good engineering practices are required by 4/12/2019

Date: 03/26/2019

Pits: NO SURFACE INDICATION OF PIT

COGCC Comments		
Comment	User	Date
Cut slopes on the south end of the location is predominantly bare and exposed soil. Aeolian deposition on the slopes evident and appear to have covered any vegetation that has germinated. Stormwater erosion degradation is becoming evident.	trujilloam	03/12/2019
Shallow berm on the southwest end of the location travels north ~200 feet then ends. There does not appear to be sufficient stormwater and erosion control BMPs at the end of berm to mitigate erosion degradation and sediment laden free stormwater discharge from location.	trujilloam	03/12/2019
Stormwater and erosion control BMPs do not appear to be sufficient, or missing at and along the perimeter of the topsoil stockpile on the south end of the location.	trujilloam	03/12/2019
Soil stockpile predominantly undesirable weedy plant species, or bare and exposed soil.		
Operator has installed two (2) traps on the location. Sediment traps do not appear sufficient in size to mitigate stormwater runoff from the location.	trujilloam	03/12/2019
Operator appears to have ripped the slopes within and around the sediment trap on the northwest corner of the location. Ripping has been conducted with the contour of the slope, rather than along; Ripping has been installed in such a manner to facilitate stormwater erosion degradation (concentrating flows, promoting rill and gully formations) rather than mitigate it. This is not good engineering practice or stormwater management.		

Attached Documents

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

Document Num	Description	URL
682504583	Inspection Photos	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760862
682504585	Mapped Disturbance Area	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760865