

**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:

682504584**FIELD INSPECTION FORM**

Loc ID 454166	Inspector Name: Trujillo, Aaron	On-Site Inspection <input type="checkbox"/>	2A Doc Num: _____	<b>Status Summary:</b> <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
<b>Operator Information:</b> OGCC Operator Number: <u>10661</u> Name of Operator: <u>BISON OIL &amp; GAS II LLC</u> Address: <u>518 17TH STREET #1800</u> City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>				<b>Findings:</b> <u>20</u> Number of Comments <u>5</u> Number of Corrective Actions <input checked="" type="checkbox"/> Corrective Action Response Requested
				<b>ANY CORRECTIVE ACTION(S) FROM PREVIOUS INSPECTIONS THAT HAVE NOT BEEN ADDRESSED ARE STILL APPLICABLE</b>

<b>Contact Information:</b>			
Contact Name	Phone	Email	Comment
		ops@bisonog.com	
		denise.arthur@state.co.us	
		aakers@bisonog.com	

<b>Inspected Facilities:</b>							
Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
454217	WELL	XX	03/06/2018		123-46457	Hunt 8-60 6C-5-8	ND
454218	WELL	XX	03/06/2018		123-46458	Hunt 8-60 6C-5-3	ND
454219	WELL	PR	07/01/2018		123-46459	Hunt 8-60 6C-5-10	RI
454220	WELL	PR	07/01/2018		123-46460	Hunt 8-60 6C-5-6	RI
454221	WELL	XX	03/06/2018		123-46461	Hunt 8-60 6C-5-1	ND
454222	WELL	XX	03/06/2018		123-46462	Hunt 8-60 6C-5-7	ND
454223	WELL	XX	03/06/2018		123-46463	Hunt 8-60 6C-5-5	ND
454224	WELL	XX	03/06/2018		123-46464	Hunt 8-60 6C-5-2	ND
454225	WELL	XX	03/06/2018		123-46465	Hunt 8-60 6C-5-9	ND
454226	WELL	XX	03/06/2018		123-46466	Hunt 8-60 6C-5-4	ND

<b>General Comment:</b> <p>This is an interim reclamation and stormwater inspection in response to a 502.b delayed interim reclamation variance request.</p> <p>Operator submitted doc. #401844836 on 01/07/2019 requesting that interim reclamation be delayed for a duration not to exceed five (5) years.</p> <p>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.</p> <p>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.</p> <p>Any corrective action(s) from previous inspections that have not been addressed will remain applicable.</p>
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**Location**Overall Good: ☐

Emergency Contact Number:

Comment:

Corrective Action:

Date: \_\_\_\_\_

**Good Housekeeping:**

Type	STORAGE OF SUPL		
Comment:	Various containers (barrel, paint can, 5 gallon buckets, jugs) observed being stored directly up the soil surface. This is improper materials management. See photos 44, 46-48		
Corrective Action:	Comply with 603.f and 1002.f(2).b and place materials into secondary containment, or remove and properly store.	Date:	03/26/2019
Type	TRASH		
Comment:	Various trash debris (cans, bottles, plastic jug) observed throughout perimeter of the location. See photos 51-53		
Corrective Action:	Comply with Rule 603.f .	Date:	04/12/2019

Overall Good: ☐**Spills:**

Type	Area	Volume		
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In Containment: No

Comment:

☐ Multiple Spills and Releases?**Tanks and Berms:**

Contents	#	Capacity	Type	Tank ID	SE GPS
Comment:					
Corrective Action:					Date:

**Paint**

Condition		
Other (Content)		
Other (Capacity)		
Other (Type)		

**Berms**

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
		Walls Insufficient		Inadequate
Comment:	THIS IS TO ADDRESS STORMWATER ISSUES IDENTIFIED AT THE CONTAMINATED SOIL STOCKPILE ON THE NE CORNER OF PAD  Operator is storing contaminated soils on the northeast corner of the pad. Containment BMPs are insufficient as pollutant discharge from the contaminated soils is evident. See photos 41-43			
Corrective Action:	Install or repair BMPs to prevent pollutant discharge from contaminated soil stockpile by 3/15/2019			Date: 03/15/2019

**Venting:**

Yes/No			
Comment:			
Corrective Action:		Date:	

**Flaring:**

Type		
Comment:		
Corrective Action:		Date:

**Location Construction**

Location ID: 454166 CDP: \_\_\_\_\_

Comment: A disturbance area of 11 acres was mapped on 03/08/2019 via Trimble Juno 3B unit; this appears to be in compliance with the approved Form 2A for the permitted disturbance area.

Corrective Action: \_\_\_\_\_ 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>454217</u>	Type: <u>WELL</u>	API Number: <u>123-46457</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>454218</u>	Type: <u>WELL</u>	API Number: <u>123-46458</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>454219</u>	Type: <u>WELL</u>	API Number: <u>123-46459</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>454220</u>	Type: <u>WELL</u>	API Number: <u>123-46460</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>454221</u>	Type: <u>WELL</u>	API Number: <u>123-46461</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>454222</u>	Type: <u>WELL</u>	API Number: <u>123-46462</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>454223</u>	Type: <u>WELL</u>	API Number: <u>123-46463</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>454224</u>	Type: <u>WELL</u>	API Number: <u>123-46464</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>454225</u>	Type: <u>WELL</u>	API Number: <u>123-46465</u>	Status: <u>XX</u>	Insp. Status: <u>ND</u>
Facility ID: <u>454226</u>	Type: <u>WELL</u>	API Number: <u>123-46466</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. Additionally All stockpiled soils shall be protected from degradation due to contamination, compaction and, to the extent practicable, from wind and water erosion. Operator has allowed undesirable weedy plant species such as Salsola sp. to establish on the topsoil stockpile on the south end of the location. Soils do not appear to be sufficiently stabilized and erosion degradation is evident (See Stormwater)

Corrective Action

Conduct weed management and comply with Rule 1002.c.

Date **04/12/2019**1002E. SURFACE DISTURBANCE MINIMIZATION **Fail** \_\_\_\_\_

Comment

Inspector observed areas along the perimeter of the location where vehicles have traveled over and damaged the perimeter stormwater ditch. This does not comply with 1002.e

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1003a. Waste and Debris removed? **Fail** \_\_\_\_\_

Comment

Various trash debris observed throughout slopes and perimeter of the of the location. See "Good Housekeeping"

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

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 ? Fail

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
				Material Handling And Spill Prevention	Pass	Porta-john secured
				Material Handling And Spill Prevention	Fail	Buckets/barrel/etc. w/out secondary containment
Sediment Traps	Fail					Erosion, appear insufficient.
Tackifiers	Fail					Slopes and topsoil stockpile
Ditches	Fail					Appear insufficient. Filled with sediment
				Material Handling And Spill Prevention	Fail	BMPs/Containment around mobile tanks
				Material Handling And Spill Prevention	Fail	BMPs/Containment at contaminated soils
Hydro Mulch	Fail					Slopes and topsoil stockpile
Other	Fail					Slope Stabilization

Comment: [SEE "COGCC COMMENTS" FOR COMMENTS REGARDING STORMWATER](#)

Corrective Action: **Install and repair stormwater and erosion control BMPs in accordance with good engineering practices and 1002.f by 4/12/2019**

**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.**

Date: 03/26/2019

Pits: ☐ NO SURFACE INDICATION OF PIT

**COGCC Comments**

Comment	User	Date
<p><b>STORMWATER COMMENTS</b></p> <p><b>SEDIMENT TRAPS</b></p> <p>It does not appear that the perimeter stormwater and erosion controls installed on location are sufficient to mitigate stormwater runoff from the 11 acre disturbance; The two (2) sediment traps on the northeast and northern ends of the location also do not appear to be sufficient in size for the location.</p> <p>Sediment traps do not appear to have been constructed in accordance with good engineering practices; insufficient inlet and slope protection. Stormwater has incised the ditch at the inlets of the sediment traps. Slopes of the traps do not appear to have been constructed at an advisable grade in accordance with good engineering practices; stormwater erosion degradation evident along the slopes of the sediment traps.</p> <p><b>DITCH</b></p> <p>Ditches do not appear to have been constructed in accordance with good engineering practices and/or have filled with sediment. Additionally, it appears operator has installed rip-rap on areas of the ditch on the southeastern end of the location. It is unclear if these areas were intended to be a sediment trap to allow for sediment laden free sediment discharge. These areas have also filled with sediment.</p> <p>There are areas of the ditch on the north and east end of the location where vehicles appear to have traveled over and damaged the BMP.</p> <p><b>TOPSOIL STOCKPILE</b></p> <p>The topsoil stockpile on the south end of the location is predominantly bare and exposed soil, or vegetated by undesirable weedy plant species such as Salsola sp. (See 1003.a under reclamation). Operator appears to have used a tackifier on the stockpile, however BMP has not been maintained and erosion degradation is evident.</p> <p><b>SLOPES</b></p> <p>Rill and gully erosion degradation evident on the slopes of the eastern perimeter of the pad. Sediment deposition evident on slopes to the south of the pad. Operator appears to have used a tackifier on slopes, however BMP has not been maintained; Slopes are predominantly bare and exposed soil, or vegetated by undesirable weedy plant species such as Salsola sp. Slopes are not sufficiently stabilized.</p> <p><b>SECONDARY CONTAINMENT AT TANKS</b></p> <p>Secondary containment around the two mobile tanks on located at center of the pad are not in proper functioning condition. See photos 45-46.</p> <p><b>CONTAMINATED SOILS</b></p> <p>Operator is storing contaminated soils on the northeast corner of the pad. Containment BMPs are insufficient as pollutant discharge from the contaminated soils is evident. SEE THE "TANKS AND BERMS" SECTION OF THIS REPORT</p>	trujilloam	03/12/2019

**Attached Documents**

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

Document Num	Description	URL
401970180	INSPECTION SUBMITTED	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760933">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760933</a>
682504586	Inspection Photos	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760868">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760868</a>
682504587	Disturbance Area	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760872">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4760872</a>



