

**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:

06/28/2019

Submitted Date:

07/08/2019

Document Number:

692401155**FIELD INSPECTION FORM**

Loc ID Inspector Name: On-Site Inspection ☐
 458790 Colby, Lou 2A Doc Num: _____

Operator Information:

OGCC Operator Number: 10598
 Name of Operator: SANDRIDGE EXPLORATION & PRODUCTION LLC
 Address: 123 ROBERT S KERR AVE
 City: OKLAHOMA CITY State: OK Zip: 73102

Status Summary:

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

Findings:

- 10 Number of Comments
3 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
Church, Matt	405-651-6853	mchurch@sandridgeenergy.com	
		sandridgeenvironmental@sandridgeenergy.com	

Inspected Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
460343	WELL	DG	03/13/2019		057-06612	PRU 0880 2-29H17	RI
460344	WELL	XX	12/28/2018		057-06613	PRU 0880 6-29H17	RI
460345	WELL	DG	03/15/2019		057-06614	PRU 0880 6-29H17	RI
462052	WELL	DG	03/11/2019		057-06615	Patriot 0880 12-32H5	RI
462053	WELL	DG	03/03/2019		057-06616	Patriot 0880 15-32H5	RI
462054	WELL	DG	03/06/2019		057-06617	Patriot 0880 14-32H5	RI
462055	WELL	DG	03/09/2019		057-06618	Patriot 0880 13-32H5	RI

General Comment:

This is an Interim Reclamation & Stormwater focused Inspection, a Joint Inspection with Field Inspector Emily Waldron. Any Corrective Actions from previous Inspections that have not been addressed are still applicable. Location was built in late Fall-Winter 2018-19.; at present in Fracing phase of operations This site lies within a Sensitive Wildlife Habitat; Greater Sage Grouse and within CPW Black Bear Area. CPW has not asked for timing restrictions on this Location. Distance to nearest downgradient surface water feature is 27 Feet; estimated depth to ground water at Location is 10 Feet. Freshwater Emergent Wetlands area (.7 acres) is positioned adjacent to West end of Location.

Inspected Facilities

Facility ID: <u>460343</u>	Type: <u>WELL</u>	API Number: <u>057-06612</u>	Status: <u>DG</u>	Insp. Status: <u>RI</u>
Facility ID: <u>460344</u>	Type: <u>WELL</u>	API Number: <u>057-06613</u>	Status: <u>XX</u>	Insp. Status: <u>RI</u>
Facility ID: <u>460345</u>	Type: <u>WELL</u>	API Number: <u>057-06614</u>	Status: <u>DG</u>	Insp. Status: <u>RI</u>
Facility ID: <u>462052</u>	Type: <u>WELL</u>	API Number: <u>057-06615</u>	Status: <u>DG</u>	Insp. Status: <u>RI</u>
Facility ID: <u>462053</u>	Type: <u>WELL</u>	API Number: <u>057-06616</u>	Status: <u>DG</u>	Insp. Status: <u>RI</u>
Facility ID: <u>462054</u>	Type: <u>WELL</u>	API Number: <u>057-06617</u>	Status: <u>DG</u>	Insp. Status: <u>RI</u>
Facility ID: <u>462055</u>	Type: <u>WELL</u>	API Number: <u>057-06618</u>	Status: <u>DG</u>	Insp. Status: <u>RI</u>

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

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

Land Use: RANGELAND

Comment: Site has not yet reached stage for Interim Reclamation to be Installed.**1002 SITE PREPARATION AND STABILIZATION**

1002a. FENCING _____

Comment _____

Corrective Action _____

Date _____

1002b. SOIL REMOVAL AND
SEGREGATION _____Comment Soil stockpile appears to be located at East end of Location. Visible top layer does not have the appearance of topsoil. DOW Comment in 2A describes site "as within an area previously used for gravel mining operations"; this may account for the incongruous appearance of soil.Corrective Action Identify make up of soil stockpile to Inspector.Date **07/10/2019**

1002c. PROTECTION OF SOILS _____ Fail

Comment Stockpile has wattles installed around it; however it is being inundated by runoff water from surrounding fields. To the North of the stockpile is site of washout, which occurred when French Drain (RE: Operator --installed by SO to channel runoff around perimeter of site) was unable to divert increased flow from recent precipitation event. Washout did occur North of the stockpile, which was not part of slough; however the area is not stable and protections have been compromised. It is not evident if washout is part of Location or is SO agricultural area. It is apparent that some work has been done; installation of BMPs / excavating, etc. Refer to Stormwater Section and Photo Log attached.Corrective Action Repair and stabilize area to insure protection of topsoil. Operator (met on site) indicated they would be working with SO on repairs. Operator was not clear as to who had been working on area; Surface Owner or Operator?Date **07/22/2019**

1002E. SURFACE DISTURBANCE MINIMIZATION _____

Comment _____

Corrective Action _____

Date _____

1003a. Waste and Debris removed? _____

Comment _____

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 ? _____
- 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 REVEGETATIONCropland

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 _____

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
Silt Fences	Fail					At NW Corner
Other	Fail					Points on access road & berms.
Silt Fences	Fail					Along Fill Slope
Waddles	Fail					At washout NE Corner & stockpile.

Comment: Field Inspector Waldron indicated that compromised Silt Fence noted in Previous FIU Insp had been repaired though new concerns have developed. There are points on South sides of access road and berms lacking BMPS to prevent sediment migration into water from flooding fields which border South perimeter.

Two serious washouts of BMPs have occurred on site; at NW and NE corners: Comments continued in COGCC Comments Section at end of this report.

Corrective Action: Install sufficient/effective BMPs in accordance with, and monitoring per Good Engineering Practices per Rule 1002.f

Date: 07/22/2019

Pits: ☐ NO SURFACE INDICATION OF PIT

COGCC Comments

Comment	User	Date
Continued Comments from Stormwater section:	colbyl	07/08/2019
Two serious washouts of BMPs have occurred on site; at NW and NE corners.		
1) NW corner washout: it appears berm failed and SW by-passed weir; indicating revision of outlet and review of practice of leaving weir in closed position, retaining all stormwater on site, putting heavy burden on berms & other BMPs. Weir needs additional work to function as sediment settling & discharge point, using redundant BMPs in series to minimize overloading & prevent potential failures. It appears sediment from BMP failure has migrated into wetland area.		
2) NE corner washout: washout, which occurred when French Drain (RE: Operator -- installed by SO to channel runoff around perimeter of site) was unable to divert increased flow from recent precipitation event. As discussed in Protection of Soils Section: washout did occur North of the stockpile, which was not part of slough; however the area is not stable and protections have been compromised. It is not evident if washout is part of Location or is SO agricultural area. It is apparent that some work has been done; installation of BMPs / excavating, etc. Operator (met on site) indicated they would be working with SO on repairs. Operator was not clear as to who had been working on area; Surface Owner or Operator? Refer to Photo Log attached.		

Attached Documents

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

Document Num	Description	URL
692401164	Inspection Photos RI	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4870574