



March 4, 2016

Mr. Paul Schwarz
Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, Colorado 80202

**RE: Colorado Oil & Gas Conservation Commission (COGCC)
Form 4 (Interim Reclamation Completion Notice)
Paradize 4-15HZ (Location: 331571)
Kerr-McGee Oil & Gas Onshore LP (Operator: 47120)**

Dear Mr. Schwarz:

Apex Companies, LLC (Apex) is pleased to present this letter to Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) documenting results of a vegetation assessment that demonstrates successful completion of interim reclamation efforts per COGCC Rule 1003 on the above referenced location in Weld County, Colorado. Attached is a topographic map, which identifies the referenced location.

There is no documentation of the seed mix applied to this location. Based on site visits and the completed vegetation assessment, Apex inspectors confirmed that the unused portions of the reduced production footprint have been stabilized and appear to be seeded with a mixture representative of adjacent reference area species composition.

On July 8, 2015, modified step-point vegetation surveys were conducted on the reclaimed portion of the well pad, and on adjacent reference areas. Foliar and basal cover, along with non-vegetated, and noxious weed occurrences were documented; 100 survey points were recorded within the reclaimed disturbance and 100 survey points were recorded within the reference area. Noxious weeds listed by the Colorado Department of Agriculture were excluded from the vegetative coverage calculation.

Survey results indicate the reclaimed area has a foliar vegetative cover that is 134.68% of the undisturbed reference area. Vegetation survey results are provided in the attached survey summary tables and data sheets. Based on the results of the survey, interim reclamation as defined by COGCC Rule 1003.e (2) has been achieved. Photographs required by COGCC Rule 1003.e (3) are also attached along with a diagram illustrating vegetation survey efforts.

Apex appreciates the opportunity to provide environmental consulting services to Kerr-McGee with this project. Should you have any questions or require additional information, please don't hesitate to contact me.

Sincerely,
Apex Companies, LLC

A handwritten signature in black ink, appearing to read 'Chris Hines'.

Chris Hines
Project Manager
970-261-1127
chris.hines@apexcos.com

Attachments:

1. Vegetation Survey (Summary of Field Data)
2. Site Diagram
3. Topographic Location Map
4. Vegetation Survey (Photos)
5. Vegetation Survey (Field Data Tables)



Vegetation Survey (Summary of Field Data)

Client	Kerr-McGee Oil & Gas Onshore LP
COGCC Location Name (ID)	Paradize 4-15HZ (331571)
Assessment Date	7/8/2015
Inspector Name - Title	Tyler Dooley- Environmental Scientist
Data Processor Name - Title	Tyler Dooley- Environmental Scientist

Based on the survey methodology, the Foliar Cover % in each survey area is calculated by summing the total number of foliar occurrences, minus noxious weeds, and dividing by the total occurrences in the transect. For this location:

Reclaim Area (Foliar Cover)	Reference Area (Foliar Cover)
$(51 + 3 + 0) / 154 =$ 35.06%	$(28 + 16 + 0) / 169 =$ 26.04%

The Percent of Reference (%) used to evaluate each reclaim area for compliance with COGCC Rule 1003.e(2) for determining interim reclamation success, is calculated by dividing the Foliar Cover % in the Reclaim Area by the Foliar Cover % in the Reference Area. For this location:

Percent of Reference (Reclaim % / Reference %)
$35.06\% / 26.04\% =$ 134.68%

Reclaim Area Vegetation

Foliar Cover	35.06%
Basal Cover	27.92%
Non Vegetated	34.42%
Noxious Weeds	2.60%
QA Total (must equal 100)	100.00%
Grass (Foliar)	51
Forb (Foliar)	3
Shrubs (Foliar)	0
Noxious Weed (Foliar)	0
Grass (Basal)	40
Forb (Basal)	3
Shrubs (Basal)	0
Noxious Weed (Basal)	4
Bare Ground	9
Litter	44
Rock	0
Total Occurrences	154

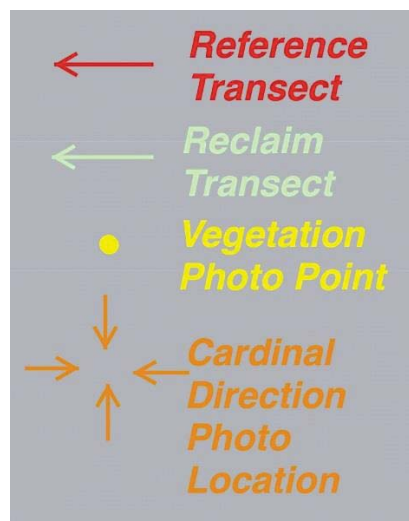
Reference Area Vegetation

Foliar Cover	26.04%
Basal Cover	14.20%
Non Vegetated	30.77%
Noxious Weeds	28.99%
QA Total (must equal 100)	100.00%
Grass (Foliar)	28
Forb (Foliar)	16
Shrubs (Foliar)	0
Noxious Weed (Foliar)	25
Grass (Basal)	18
Forb (Basal)	6
Shrubs (Basal)	0
Noxious Weed (Basal)	24
Bare Ground	5
Litter	47
Rock	0
Total Occurrences	169



Vegetation Survey Site Map

Paradize 4-15HZ
(331571)



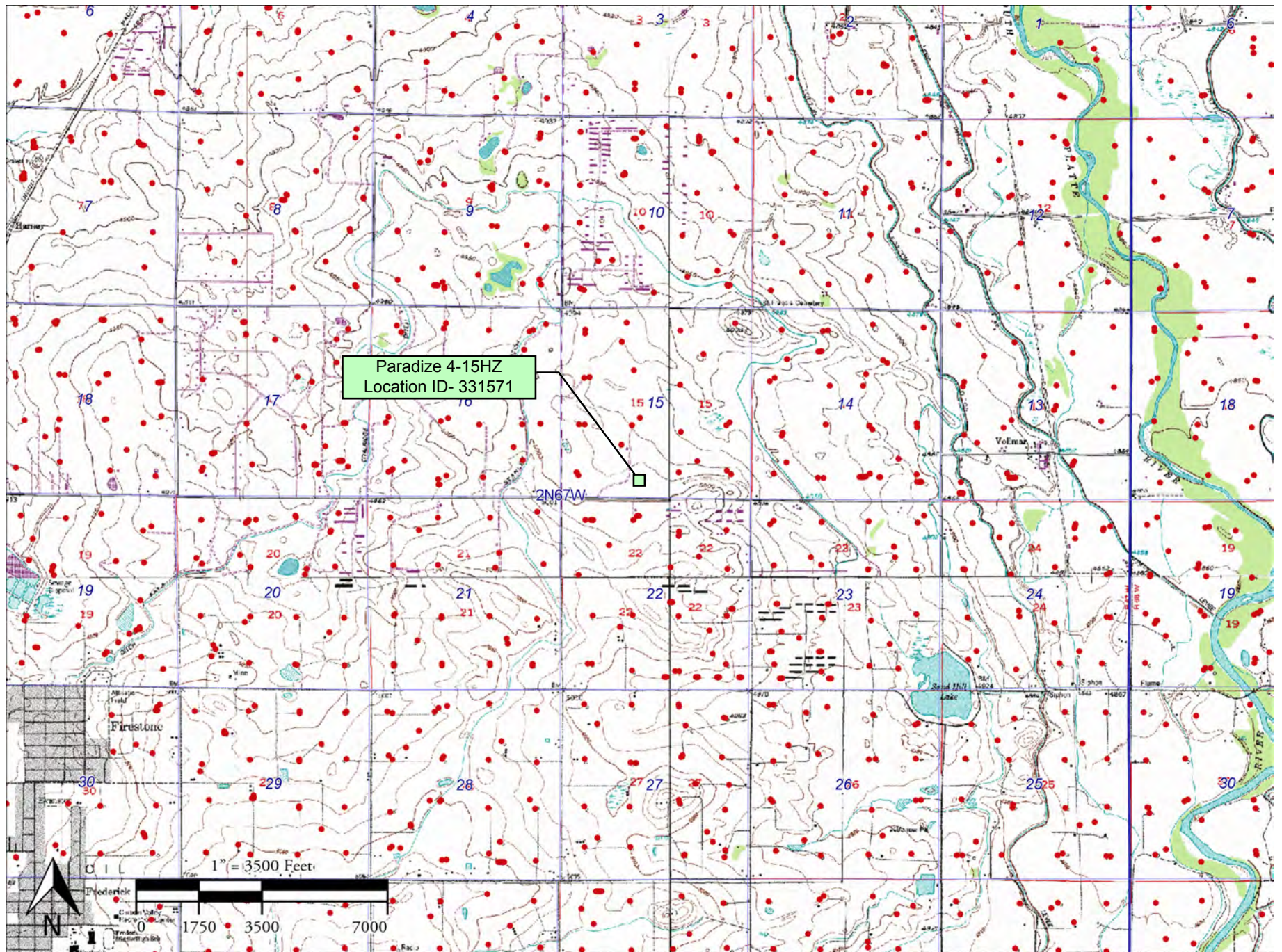
Legal Description: SESW, Sec 15,
T2N-R67W
County: Weld

Land Use: Rangeland
Reference Area Cover: 26.04%
Reclamation Cover: 35.06%
Cover Ratio
(Reclaim/Reference): 134.68%

Inspector: Tyler Dooley
Assessment Date: July 8, 2015



Paradise 4-15HZ (331571) Topographic Location Map



Edge of Disturbance on North Side of Pad
Looking East
40.133066°/-104.878859°



Kerr-McGee Oil & Gas Onshore LP
Form 4 (Interim Reclamation Completion Notice)
Paradize 4-15HZ (331571)

Vegetation Assessment
Completed - July 8, 2015



South of Disturbance
Looking North
40.132078°/-104.878530°



North of Disturbance
Looking South
40.132590°/-104.878495°



West of Disturbance
Looking East
40.132270°/-104.879033°



East of Disturbance
Looking West
40.132255°/-104.878175°



**Kerr-McGee Oil & Gas Onshore LP
Form 4 (Interim Reclamation Completion Notice)
Paradize 4-15HZ (331571)**

Vegetation Assessment
Completed - July 8, 2015



Reclaim Area Vegetation
40.132650°/-104.878761°



Reclaim Transect 1
Looking South
40.132901°/-104.878849°



Reclaim Transect 2
Looking South
40.132720°/-104.877957°



Reference Area Vegetation
40.133541°/-104.878808°



Reference Transect 1
Looking East
40.133185°/-104.878992°



Reference Transect 2
Looking East
40.133541°/-104.878936°



VEGETATION MONITORING FORM - Kerr-McGee Oil & Gas Onshore LP

COGCC Location Name (ID)-Paradize 4 - 15HZ (331571)

CO # COP0156

Date of Assessment - 07/08/2015

Transect ID - Reclaim Transect 1

Length of Transect (ft.) - 900

Transect Type



Reclamation



Reference

Inspector(s) (Name and Title) - Tyler Dooley-Environmental Scientist

Weather at Time of Inspection - Overcast 59

Method - Step Point

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	Grass	Secale cereale	B-Noxious Weed	Bromus tectorum	-
2	Grass	Secale cereale	B-Noxious Weed	Bromus tectorum	-
3	-		-		Litter
4	Forb	Medicago sativa	B-Forb	Medicago sativa	-
5	Forb	Medicago sativa	-		Litter
6	Grass	Secale cereale	B-Grass	Secale cereale	-
7	Grass	Secale cereale	-		Litter
8	Grass	Secale cereale	B-Grass	Secale cereale	-
9	Grass	Secale cereale	B-Grass	Elymus lanceolatus	-
10	Grass	Secale cereale	-		Litter
11	Grass	Secale cereale	B-Grass	Secale cereale	-
12	-		B-Noxious Weed	Bromus tectorum	-
13	Grass	Secale cereale	-		Litter
14	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
15	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
16	Grass	Bromus biebrsteinii	-		Litter
17	Grass	Secale cereale	B-Grass	Secale cereale	-
18	-		-		Litter
19	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
20	Grass	Secale cereale	-		Bare Ground
21	Grass	Elymus lanceolatus	-		Litter
22	-		-		Litter
23	-		-		Litter
24	-		-		Litter
25	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
26	Grass	Elymus lanceolatus	-		Litter
27	-		-		Bare Ground
28	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
29	-		-		Bare Ground

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	-		-		Bare Ground
31	-		B-Forb	Other spp. 2	-
32	Grass	Elymus lanceolatus	-		Bare Ground
33	Grass	Secale cereale	B-Grass	Other spp. 1	-
34	-		B-Grass	Other spp. 1	-
35	Grass	Secale cereale	-		Litter
36	Grass	Secale cereale	B-Grass	Elymus lanceolatus	-
37	-		-		Litter
38	-		B-Grass	Elymus lanceolatus	-
39	Grass	Elymus lanceolatus	-		Litter
40	-		-		Litter
41	Grass	Secale cereale	B-Grass	Secale cereale	-
42	Grass	Secale cereale	B-Grass	Secale cereale	-
43	Grass	Secale cereale	-		Litter
44	-		-		Litter
45	Forb	Medicago sativa	-		Litter
46	Grass	Secale cereale	B-Grass	Secale cereale	-
47	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
48	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
49	-		B-Grass	Other spp. 1	-
50	-		-		Litter

Photo Requirements

Representative photo looking down the length of each transect; including reference area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo facing each cardinal direction (N, E, S, W) from the center looking past well heads.	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Representative photo down edge of disturbance	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo that documents the total cover of live perennial vegetation of the undisturbed area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo that documents the total cover of live perennial vegetation of the disturbed area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO

General Notes: Forb 1 is Conzya

INSPECTION CERTIFICATION

I certify that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of termination.

Inspector (Name)

Tyler Dooley-Environmental Specialist



Date: 07/08/2015

VEGETATION MONITORING FORM - Kerr-McGee Oil & Gas Onshore LP

COGCC Location Name (ID)- Paradize 4 - 15HZ (331571)

CO # COP0156

Date of Assessment - 07/08/2015

Transect ID - Reclaim Transect 2

Length of Transect (ft.) - 900

Transect Type



Reclamation



Reference

Inspector(s) (Name and Title) - Tyler Dooley-Environmental Scientist

Weather at Time of Inspection - Overcast 59

Method - Step Point

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	Grass	Elymus lanceolatus	-		Litter
2	Grass	Secale cereale	B-Grass	Secale cereale	-
3	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
4	-		-		Litter
5	-		B-Grass	Elymus lanceolatus	-
6	-		-		Litter
7	Grass	Secale cereale	-		Litter
8	Grass	Secale cereale	B-Grass	Secale cereale	-
9	-		B-Grass	Secale cereale	-
10	Grass	Elymus lanceolatus	-		Litter
11	-		-		Litter
12	-		-		Litter
13	-		-		Bare Ground
14	-		-		Litter
15	Grass	Secale cereale	B-Grass	Secale cereale	-
16	-		B-Grass	Elymus lanceolatus	-
17	-		-		Bare Ground
18	Grass	Elymus lanceolatus	-		Litter
19	-		B-Noxious Weed	Bromus tectorum	-
20	-		-		Litter
21	-		B-Grass	Secale cereale	-
22	-		B-Grass	Elymus lanceolatus	-
23	-		-		Litter
24	-		-		Bare Ground
25	Grass	Secale cereale	-		Litter
26	Grass	Secale cereale	B-Forb	Secale cereale	-
27	-		-		Litter
28	Grass	Elymus lanceolatus	-		Litter
29	Grass	Secale cereale	B-Grass	Elymus lanceolatus	-

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	-		-		Litter
31	-		-		Litter
32	-		-		Litter
33	Grass	Secale cereale	-		Litter
34	-		B-Grass	Elymus lanceolatus	-
35	-		B-Grass	Secale cereale	-
36	Grass	Elymus lanceolatus	-		Litter
37	-		-		Bare Ground
38	Grass	Elymus lanceolatus	B-Grass	Elymus lanceolatus	-
39	-		B-Grass	Elymus lanceolatus	-
40	-		-		Litter
41	Grass	Secale cereale	B-Grass	Secale cereale	-
42	Grass	Secale cereale	-		Litter
43	-		B-Grass	Secale cereale	-
44	Grass	Secale cereale	B-Grass	Secale cereale	-
45	-		B-Grass	Secale cereale	-
46	Grass	Elymus lanceolatus	-		Litter
47	Grass	Secale cereale	B-Grass	Secale cereale	-
48	Grass	Elymus lanceolatus	B-Grass	Secale cereale	-
49	-		-		Litter
50	-		-		Litter

Photo Requirements

Representative photo looking down the length of each transect; including reference area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo facing each cardinal direction (N, E, S, W) from the center looking past well heads.	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Representative photo down edge of disturbance	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo that documents the total cover of live perennial vegetation of the undisturbed area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo that documents the total cover of live perennial vegetation of the disturbed area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO

General Notes:

INSPECTION CERTIFICATION

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Inspector (Name)

Tyler Dooley-Environmental Specialist



Date: 07/08/2015

VEGETATION MONITORING FORM - Kerr-McGee Oil & Gas Onshore LP

COGCC Location Name (ID)- Paradise 4 - 15HZ (331571)	CO # COP0156	Date of Assessment - 07/08/2015
Transect ID - Reference Transect 1	Length of Transect (ft.) - 600	Transect Type <input type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Reference

Inspector(s) (Name and Title) - Tyler Dooley-Environmental Scientist

Weather at Time of Inspection -	Method - Step Point
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Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	Forb	Conyza canadensis	-		Litter
2	Grass	Panicum virgatum	B-Forb	Conyza canadensis	-
3	Grass	Panicum virgatum	-		Litter
4	-		-		Litter
5	-		-		Litter
6	Grass	Panicum virgatum	-		Litter
7	Forb	Conyza canadensis	-		Litter
8	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
9	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
10	Forb	Conyza canadensis	B-Grass	Panicum virgatum	-
11	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
12	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
13	-		-		Litter
14	-		-		Litter
15	Forb	Conyza canadensis	-		Litter
16	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
17	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
18	-		-		Bare Ground
19	Forb	Conyza canadensis	-		Litter
20	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
21	Grass	Panicum virgatum	-		Litter
22	-		-		Litter
23	-		-		Litter
24	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
25	Forb	Conyza canadensis	B-Forb	Conyza canadensis	-
26	-		-		Litter
27	-		-		Litter
28	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
29	-		-		Litter

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
31	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
32	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
33	-		-		Litter
34	Grass	Panicum virgatum	B-Noxious Weed	Bromus tectorum	-
35	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
36	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
37	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
38	-		-		Bare Ground
39	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
40	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
41	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
42	Forb	Conyza canadensis	B-Forb	Conyza canadensis	-
43	Grass	Bromus tectorum	-		Litter
44	-		-		Litter
45	-		-		Litter
46	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
47	-		-		Litter
48	-		-		Litter
49	Grass	Schizachyrium scoparium	B-Grass	Schizachyrium scoparium	-
50	Grass	Schizachyrium scoparium	-		Litter

Photo Requirements

Representative photo looking down the length of each transect; including reference area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo facing each cardinal direction (N, E, S, W) from the center looking past well heads.	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Representative photo down edge of disturbance	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo that documents the total cover of live perennial vegetation of the undisturbed area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo that documents the total cover of live perennial vegetation of the disturbed area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO

General Notes:

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Inspector (Name)

Tyler Dooley-Environmental Specialist



Date: 07/08/2015

VEGETATION MONITORING FORM - Kerr-McGee Oil & Gas Onshore LP

COGCC Location Name (ID)- Paradize 4-15HZ (331571)

CO # COP0156

Date of Assessment - 07/08/2015

Transect ID - Reference Transect 2

Length of Transect (ft.) - 600

Transect Type

☐ Reclamation

☒ Reference

Inspector(s) (Name and Title) - Tyler Dooley-Environmental Scientist

Weather at Time of Inspection -

Method - Step Point

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	Forb	Conyza canadensis	-		Litter
2	Grass	Schizachyrium scoparium	-		Litter
3	Grass	Panicum virgatum	-		Litter
4	Grass	Schizachyrium scoparium	-		Litter
5	-		-		Litter
6	Grass	Panicum virgatum	-		Litter
7	Forb	Conyza canadensis	-		Litter
8	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
9	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
10	Forb	Conyza canadensis	B-Grass	Panicum virgatum	-
11	Forb	Conyza canadensis	B-Grass	Panicum virgatum	-
12	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
13	-		-		Litter
14	-		-		Litter
15	Forb	Conyza canadensis	-		Litter
16	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
17	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
18	-		-		Bare Ground
19	Forb	Conyza canadensis	-		Litter
20	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
21	Grass	Panicum virgatum	-		Litter
22	-		-		Litter
23	-		-		Litter
24	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
25	Forb	Conyza canadensis	B-Forb	Conyza canadensis	-
26	-		-		Litter
27	-		-		Litter
28	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
29	-		-		Litter

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
31	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
32	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
33	-		-		Litter
34	Grass	Schizachyrium scoparium	B-Noxious Weed	Bromus tectorum	-
35	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
36	Forb	Conyza canadensis	B-Forb	Conyza canadensis	Bare Ground
37	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
38	-		-		Bare Ground
39	Grass	Schizachyrium scoparium	B-Grass	Schizachyrium scoparium	-
40	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
41	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
42	Forb	Conyza canadensis	B-Forb	Conyza canadensis	-
43	Noxious Weed	Bromus tectorum	-		Litter
44	-		-		Litter
45	-		-		Litter
46	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
47	-		-		Litter
48	Noxious Weed	Bromus tectorum	-		Litter
49	-		-		-
50	Noxious Weed	Bromus tectorum	-		Litter

Photo Requirements

Representative photo looking down the length of each transect; including reference area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo facing each cardinal direction (N, E, S, W) from the center looking past well heads.	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Representative photo down edge of disturbance	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
Photo that documents the total cover of live perennial vegetation of the undisturbed area	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO
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General Notes:

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Inspector (Name)

Tyler Dooley-Environmental Specialist



Date: 07/08/2015