



February 6, 2017

Mr. Mike Dinkel, REM, CSEM
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)
HARRIS FEDERAL 16N-18HZ (328245)
Kerr-McGee Oil & Gas Onshore LP (Operator: 47120)**

Dear Mr. Dinkel:

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.

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 seeded with a mixture consistent with species composition and reseeding practices common to the area.

On August 31, 2016, 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 187.14% 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', written over a light blue horizontal line.

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

Attachments:

1. Vegetation Survey (Summary of Field Data)
2. Vegetation Survey Site Map
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)	HARRIS FEDERAL 16N-18HZ (328245)
Assessment Date	8/31/2016
Inspector Name - Title	Jennie Schoedel - Environmental Scientist
Data Processor Name - Title	Jennie Schoedel - 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)
$(43 + 1 + 0) / 144 =$ 30.56%	$(18 + 2 + 4) / 147 =$ 16.33%

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:

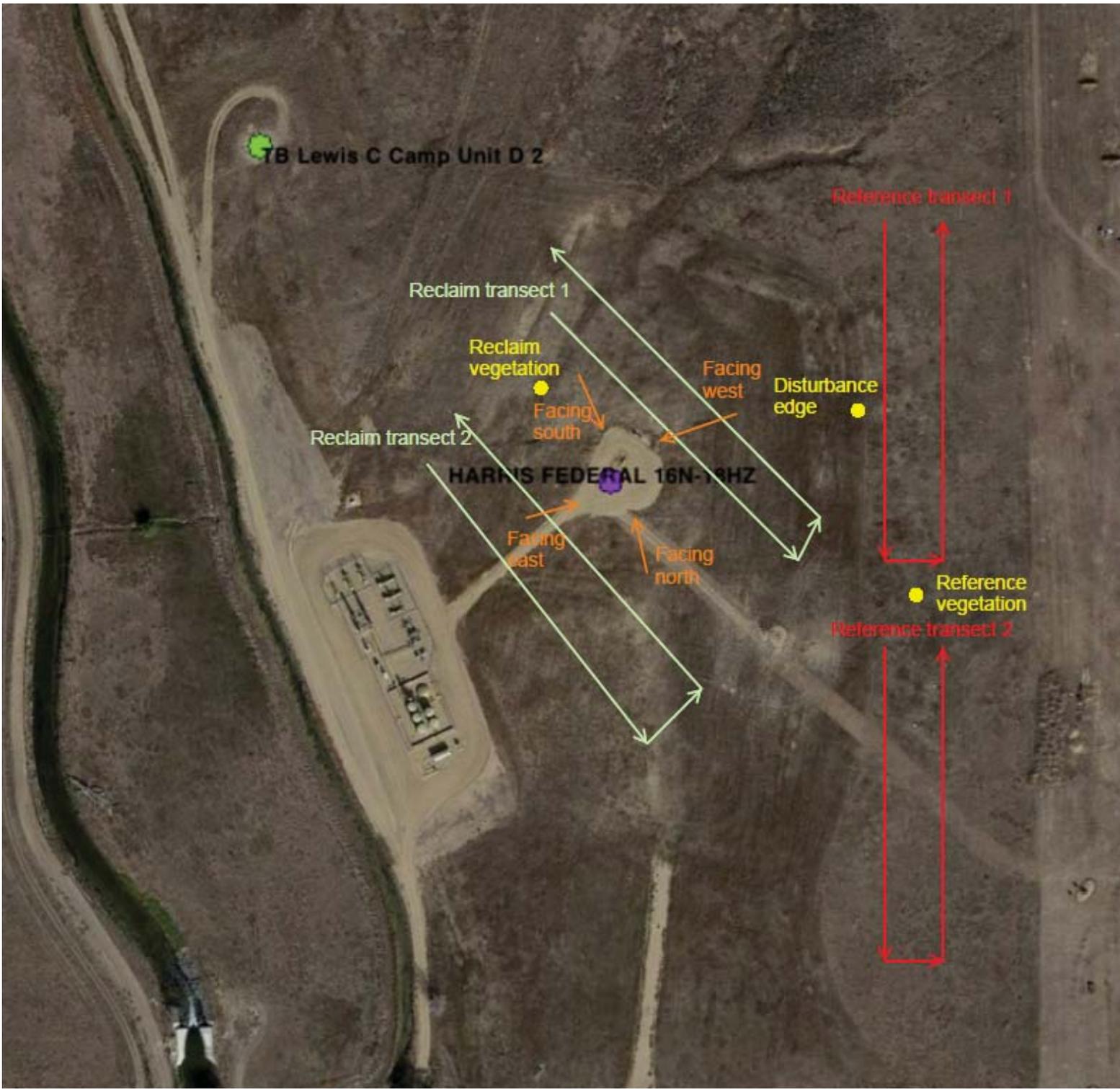
Percent of Reference (Reclaim % / Reference %)
$30.56\% / 16.33\% =$ 187.14%

Reclaim Area Vegetation

Foliar Cover	30.56%
Basal Cover	9.72%
Non Vegetated	59.72%
Noxious Weeds	0.00%
QA Total <i>(must equal 100)</i>	100.00%
Grass (Foliar)	43
Forb (Foliar)	1
Shrubs (Foliar)	0
Noxious Weed (Foliar)	0
Grass (Basal)	14
Forb (Basal)	0
Shrubs (Basal)	0
Noxious Weed (Basal)	0
Bare Ground	16
Litter	70
Rock	0
Total Occurrences	144

Reference Area Vegetation

Foliar Cover	16.33%
Basal Cover	2.04%
Non Vegetated	63.95%
Noxious Weeds	17.69%
QA Total <i>(must equal 100)</i>	100.00%
Grass (Foliar)	18
Forb (Foliar)	2
Shrubs (Foliar)	4
Noxious Weed (Foliar)	23
Grass (Basal)	3
Forb (Basal)	0
Shrubs (Basal)	0
Noxious Weed (Basal)	3
Bare Ground	3
Litter	91
Rock	0
Total Occurrences	147



Vegetation Survey Site Map

HARRIS FEDERAL
16N-18HZ
(328245)

← **Reference Transect**

← **Reclaim Transect**

● **Vegetation Photo Point**

↕ **Cardinal Direction Photo Location**

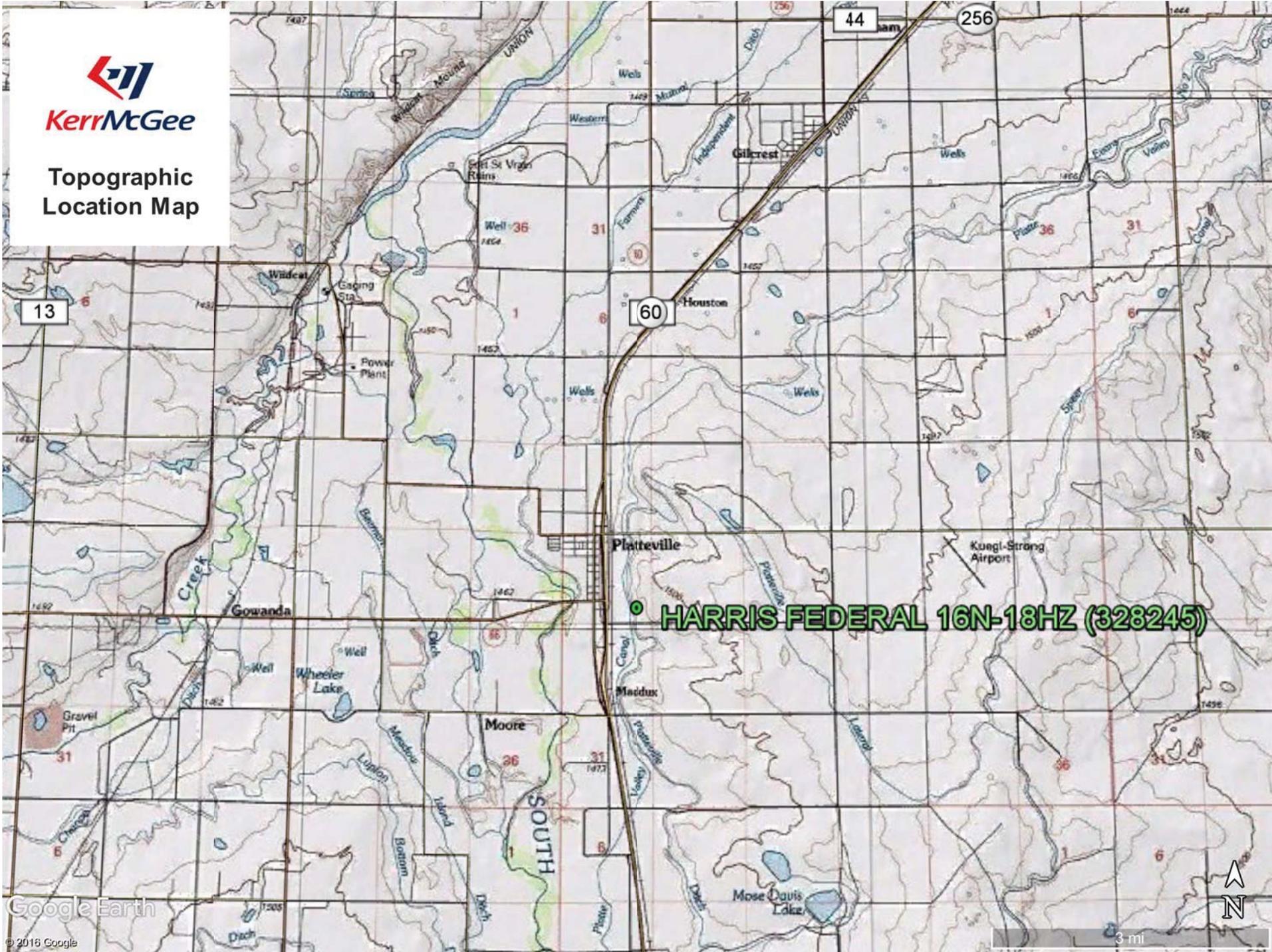
Legal Description: SESE Sec 19,
T3N-R66W
County: Weld

Land Use: Rangeland
Reference Area Cover: 16.33%
Reclamation Cover: 30.56
Cover Ratio
(Reclaim/Reference): 187.14%

Inspector: J. Schoedel
Assessment Date: 08/31/2016



Topographic
Location Map





Edge of Disturbance - Facing South
40.205477°/-104.812696°





Reclaim Area Vegetation Photo Point
40.205602°/-104.814172°







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

COGCC Location Name (ID): HARRIS FEDERAL 16N-18HZ (328245)		CO #: COP0027	Date of Assessment: 08/31/2016
Transect ID: Reclaim transect 1	Length of Transect (ft.): 500	Transect Type: <input checked="" type="checkbox"/> Reclamation <input type="checkbox"/> Reference	
Inspector(s) (Name and Title): Jennie Schoedel - Environmental Scientist			
Weather at Time of Inspection: Cloudy, 60s		Method: Step Point	

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	-		-		Litter
2	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
3	-		-		Litter
4	-		-		Litter
5	Grass	Thinopyrum intermedia	-		Litter
6	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
7	-		-		Litter
8	Grass	Thinopyrum intermedia	-		Litter
9	-		-		Litter
10	-		-		Bare Ground
11	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
12	-		-		Litter
13	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
14	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
15	-		-		Litter
16	Grass	Bromus inermis	-		Litter
17	Grass	Bromus inermis	-		Litter
18	Forb	Lactuca serriola	-		Litter
19	-		-		Bare Ground
20	Grass	Thinopyrum intermedia	-		Litter
21	-		-		Litter
22	-		-		Litter
23	-		-		Litter
24	-		-		Litter
25	Grass	Thinopyrum intermedia	-		Litter
26	-		-		Litter
27	-		-		Litter
28	-		-		Litter
29	Grass	Thinopyrum intermedia	-		Litter

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	-		-		Litter
31	Grass	Bromus inermis	-		Litter
32	-		-		Litter
33	-		-		Litter
34	Grass	Thinopyrum intermedia	-		Litter
35	Grass	Bromus inermis	-		Litter
36	-		-		Litter
37	Grass	Thinopyrum intermedia	-		Bare Ground
38	-		-		Litter
39	-		-		Bare Ground
40	Grass	Bromus inermis	-		Bare Ground
41	-		-		Litter
42	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
43	-		-		Bare Ground
44	-		-		Litter
45	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
46	-		-		Litter
47	-		-		Litter
48	-		-		Bare Ground
49	Grass	Thinopyrum intermedia	-		Litter
50	Grass	Bromus inermis	-		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 edge of disturbance looking to 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 for the reference 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:

List any newly identified species not present in drop-down lists.

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)

Jennie Schoedel - Environmental Scientist



Date: 08/31/2016

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

COGCC Location Name (ID): HARRIS FEDERAL 16N-18HZ (328245)		CO #: COP0027	Date of Assessment: 08/31/2016
Transect ID: Reclaim transect 2	Length of Transect (ft.): 500	Transect Type: <input checked="" type="checkbox"/> Reclamation <input type="checkbox"/> Reference	
Inspector(s) (Name and Title): Jennie Schoedel - Environmental Scientist			
Weather at Time of Inspection: Cloudy, 60s		Method: Step Point	

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	-		-		Litter
2	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
3	-		-		Litter
4	-		-		Litter
5	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
6	-		-		Litter
7	Grass	Thinopyrum intermedia	-		Litter
8	Grass	Thinopyrum intermedia	-		Litter
9	-		-		Litter
10	-		-		Bare Ground
11	Grass	Thinopyrum intermedia	-		Litter
12	-		-		Litter
13	-		-		Bare Ground
14	Grass	Thinopyrum intermedia	-		Litter
15	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
16	-		-		Litter
17	-		-		Litter
18	Grass	Thinopyrum intermedia	-		Litter
19	-		-		Bare Ground
20	Grass	Thinopyrum intermedia	-		Litter
21	-		-		Litter
22	Grass	Bromus inermis	-		Litter
23	-		-		Bare Ground
24	Grass	Bromus inermis	B-Grass	Bromus inermis	-
25	Grass	Thinopyrum intermedia	B-Grass	Thinopyrum intermedia	-
26	Grass	Thinopyrum intermedia	-		Litter
27	-		-		Bare Ground
28	-		-		Bare Ground
29	Grass	Thinopyrum intermedia	-		Litter

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

Photo Requirements

Representative photo looking down the length of each transect; including reference area.	<input checked="" type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
Photo facing each cardinal direction (N, E, S, W) from edge of disturbance looking to 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 for the reference 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:

List any newly identified species not present in drop-down lists.

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Inspector (Name)

Jennie Schoedel - Environmental Scientist



Date: 08/31/2016

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

COGCC Location Name (ID): HARRIS FEDERAL 16N-18HZ (328245)

CO #: COP0027

Date of Assessment: 08/31/2016

Transect ID: Reference transect 1

Length of Transect (ft.): 400

Transect Type:

 Reclamation

 Reference

Inspector(s) (Name and Title): Jennie Schoedel - Environmental Scientist

Weather at Time of Inspection: Cloudy, 60s

Method: Step Point

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	Noxious Weed	Bromus tectorum	-		Litter
2	-		-		Litter
3	Forb	Lactuca serriola	-		Litter
4	-		-		Litter
5	-		-		Litter
6	Grass	Other spp. 1	-		Litter
7	Noxious Weed	Bromus tectorum	-		Litter
8	-		-		Litter
9	Grass	Other spp. 1	-		Litter
10	-		-		Litter
11	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
12	-		-		Litter
13	Noxious Weed	Bromus tectorum	-		Litter
14	-		-		Litter
15	-		-		Litter
16	Noxious Weed	Bromus tectorum	-		Litter
17	-		-		Litter
18	Forb	Lactuca serriola	-		Litter
19	-		-		Litter
20	Shrub	Other spp. 1	-		Litter
21	-		-		Litter
22	Noxious Weed	Bromus tectorum	-		Litter
23	-		-		Litter
24	Grass	Other spp. 1	B-Noxious Weed	Bromus tectorum	-
25	-		-		Litter
26	Noxious Weed	Bromus tectorum	-		Litter
27	-		-		Litter
28	-		-		Litter
29	Noxious Weed	Bromus tectorum	-		Litter

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	-		-		Litter
31	Noxious Weed	Bromus tectorum	-		Litter
32	-		-		Litter
33	-		-		Litter
34	Noxious Weed	Bromus tectorum	-		Litter
35	-		-		Litter
36	Grass	Other spp. 1	-		Litter
37	Grass	Other spp. 1	-		Litter
38	-		-		Litter
39	Grass	Other spp. 1	-		Litter
40	Noxious Weed	Bromus tectorum	-		Litter
41	Noxious Weed	Bromus tectorum	-		Litter
42	Noxious Weed	Bromus tectorum	-		Litter
43	-		-		Litter
44	-		-		Litter
45	Noxious Weed	Bromus tectorum	-		Litter
46	Grass	Other spp. 1	B-Grass	Other spp. 1	-
47	-		-		Litter
48	Grass	Other spp. 1	-		Litter
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
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Photo that documents the total cover of live perennial vegetation for the reference 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: Grass other species 1 sporobolus airoides
 List any newly identified species not present in drop-down lists. Shrub other species 1 Gutierrezia sarothrae

INSPECTION CERTIFICATION

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Inspector (Name)

Jennie Schoedel -Environmental Scientist



Date: 08/31/2016

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

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Transect ID: Reference transect 2	Length of Transect (ft.): 400	Transect Type: <input type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Reference	
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Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	-		-		Litter
2	Grass	Other spp. 1	-		Litter
3	-		-		Litter
4	Grass	Other spp. 1	B-Grass	Other spp. 1	-
5	-		-		Litter
6	Grass	Other spp. 1	-		Litter
7	-		-		Litter
8	Noxious Weed	Bromus tectorum	-		Litter
9	-		-		Litter
10	-		-		Litter
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12	Grass	Other spp. 1	-		Litter
13	-		-		Litter
14	Shrub	Other spp. 1	-		Litter
15	-		-		Litter
16	-		-		Litter
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28	Noxious Weed	Bromus tectorum	-		Litter
29	Noxious Weed	Bromus tectorum	-		Litter

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	-		-		Bare Ground
31	-		-		Litter
32	-		-		Litter
33	-		-		Bare Ground
34	Shrub	Other spp. 1	-		Bare Ground
35	-		-		Litter
36	-		-		Litter
37	Noxious Weed	Bromus tectorum	-		Litter
38	-		-		Litter
39	-		-		Litter
40	-		-		Litter
41	Grass	Other spp. 1	B-Grass	Other spp. 1	-
42	-		-		Litter
43	-		-		Litter
44	Shrub	Other spp. 1	-		Litter
45	-		-		Litter
46	Noxious Weed	Bromus tectorum	-		Litter
47	Noxious Weed	Bromus tectorum	-		Litter
48	-		-		Litter
49	Grass	Other spp. 1	-		Litter
50	-		-		Litter

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Photo that documents the total cover of live perennial vegetation for the reference 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:

Grass other species 1 sporobolus airoides
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Date: 08/31/2016