



February 1, 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)
USA FED 28N-36HZ (Location: 336306)
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.

Based on communications with Kerr-McGee personnel and subsequent site visits, Apex inspectors confirmed that the unused portions of the reduced production footprint have been stabilized and seeded with Anadarko Dryland Pasture/ Sandy Soil Mix. This seed mixture was applied at 20 pounds pure live seed (pls) per acre, and is composed of Tetraploid Perennial Ryegrass (9.84%), Smooth Brome, Lincoln (9.33%), Sandberg Bluegrass (7.5%), Intermediate Wheatgrass (7.5%), Sand Dropseed (7.5%), Indian Ricegrass (7.5%), Green Needlegrass (7.5%), Sideoats Grama (7.5%), Intermediate Wheatgrass, Oahe (7.38%), Dahurian Wildrye (7.22%), Orchardgrass, Paiute (7.145%), Pubescent Wheatgrass Luna (6.675%) and Switchgrass (5.00%).

On July 6, 2015, modified step-point vegetation surveys were conducted on the reclaimed portion of the well pad, and on adjacent undisturbed 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 undisturbed 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 206.25% 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 horizontal line.

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)	USA FED 28N-36HZ (336306)
Assessment Date	7/6/2015
Inspector Name - Title	Cody Booth- Environmental Specialist
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)
$(46 + 14 + 0) / 160 =$ 37.50%	$(6 + 20 + 0) / 143 =$ 18.18%

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:

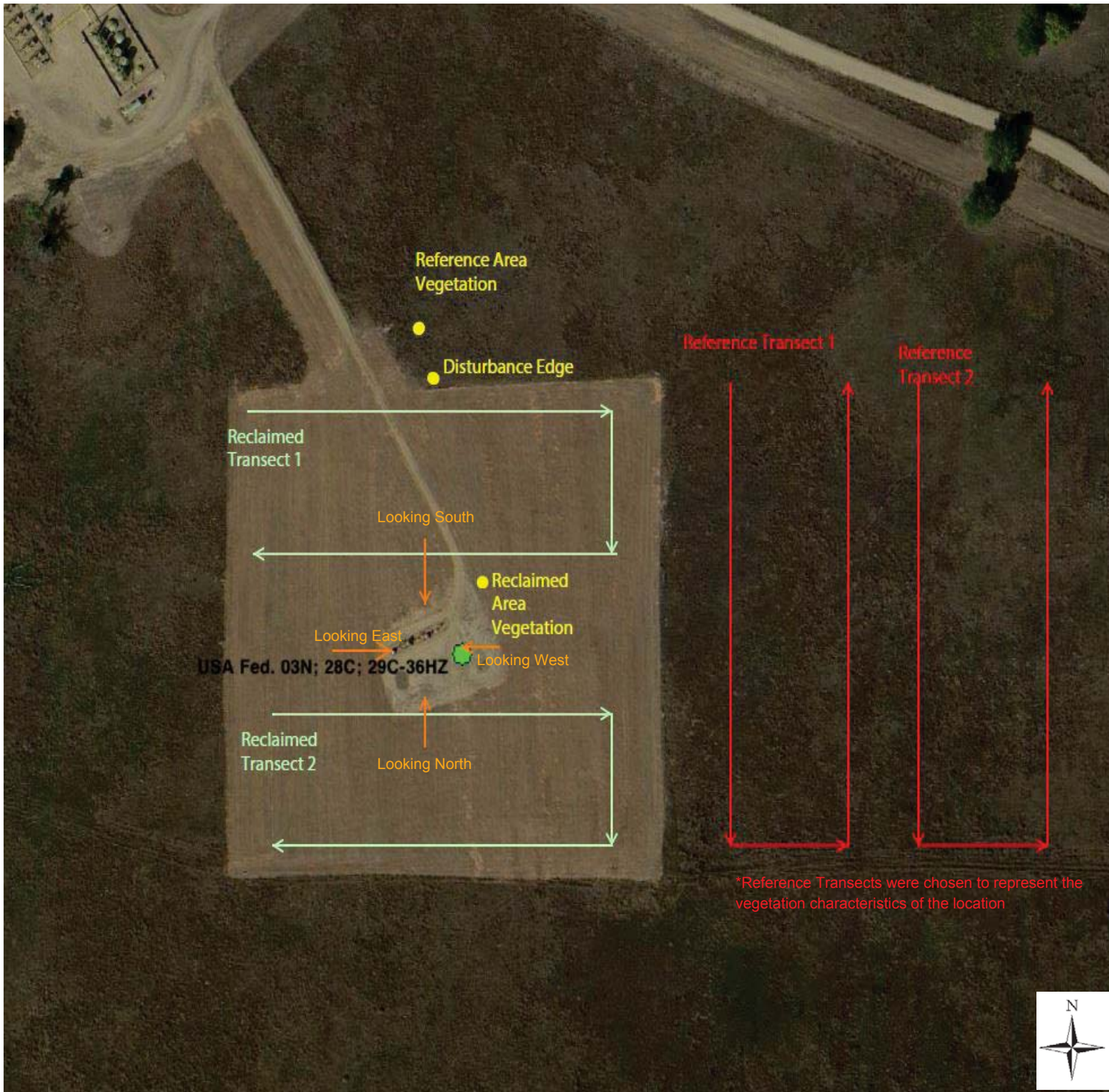
Percent of Reference (Reclaim % / Reference %)
$37.50\% / 18.18\% =$ 206.25%

Reclaim Area Vegetation

Foliar Cover	37.50%
Basal Cover	7.50%
Non Vegetated	53.75%
Noxious Weeds	1.25%
QA Total (must equal 100)	100.00%
Grass (Foliar)	46
Forb (Foliar)	14
Shrubs (Foliar)	0
Noxious Weed (Foliar)	2
Grass (Basal)	12
Forb (Basal)	0
Shrubs (Basal)	0
Noxious Weed (Basal)	0
Bare Ground	52
Litter	34
Rock	0
Total Occurrences	160

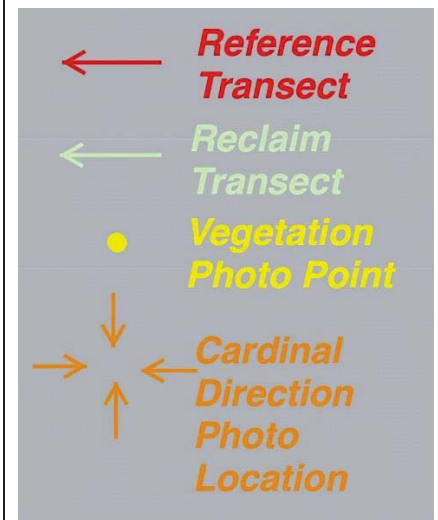
Reference Area Vegetation

Foliar Cover	18.18%
Basal Cover	9.09%
Non Vegetated	54.55%
Noxious Weeds	18.18%
QA Total (must equal 100)	100.00%
Grass (Foliar)	6
Forb (Foliar)	20
Shrubs (Foliar)	0
Noxious Weed (Foliar)	18
Grass (Basal)	4
Forb (Basal)	9
Shrubs (Basal)	0
Noxious Weed (Basal)	8
Bare Ground	6
Litter	72
Rock	0
Total Occurrences	143



Vegetation Survey Site Map

USA FED 28N-36HZ
(336306)



Legal Description: SESW, Sec 36,
T3N-R66W
County: Weld

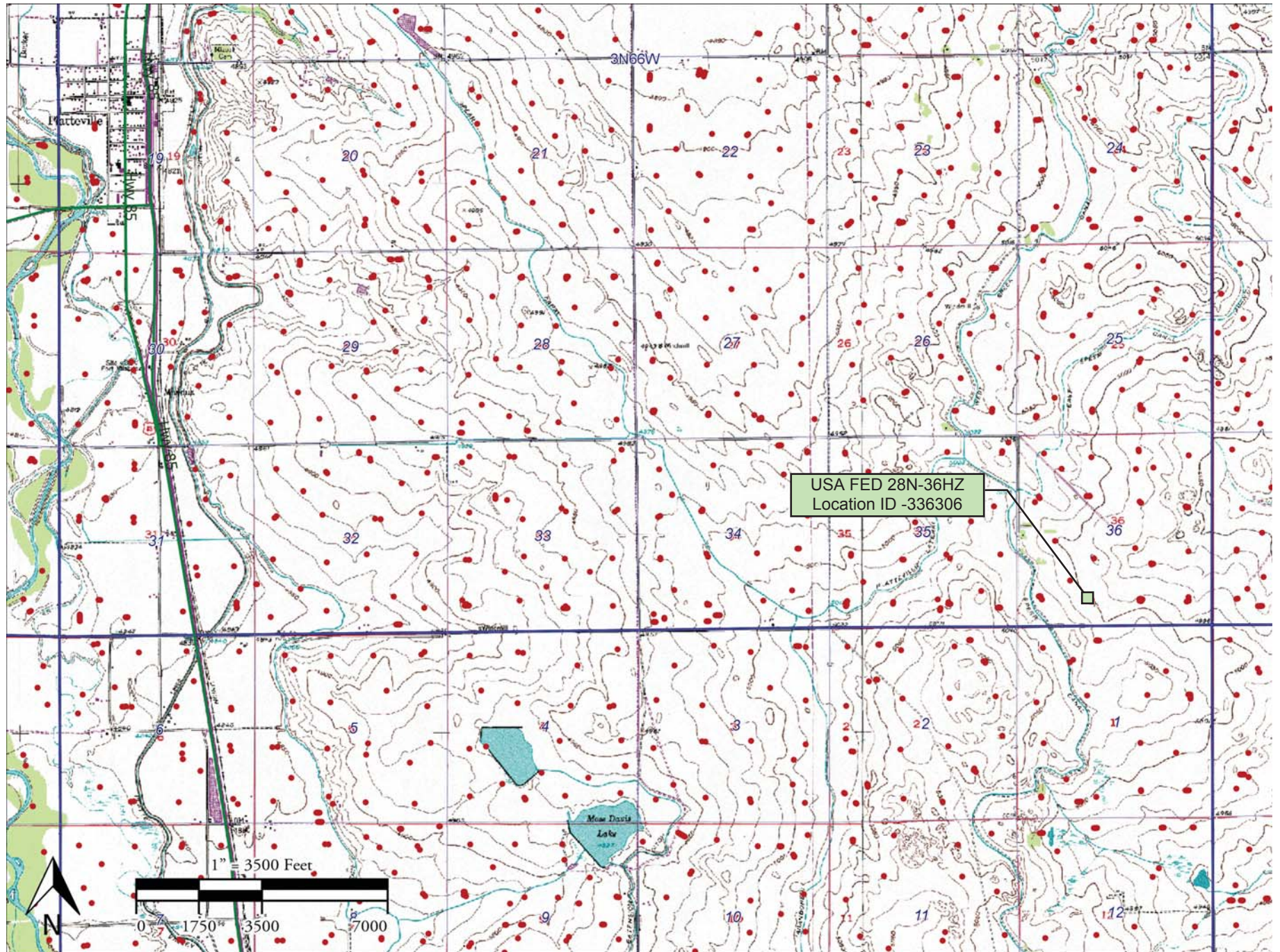
Land Use: Rangeland
Reference Area Cover: 18.18%
Reclamation Cover: 37.50%
Cover Ratio
(Reclaim/Reference): 206.25%

Inspector: Cody Booth
Assessment Date: July 6, 2015



*Reference Transects were chosen to represent the vegetation characteristics of the location

USA FED 28N-36HZ (336306) Topographic Location Map



Edge of Disturbance on North Side of Pad
Looking East
40.177309°/-104.728158°



Kerr McGee Oil & Gas Onshore LP
Form 4 (Interim Reclamation Completion Notice)
USA FED 28N-36HZ (336306)

Vegetation Assessment
Completed - July 6, 2015



South of Disturbance
Looking North
40.176083°/-104.728018°



North of Disturbance
Looking South
40.176595°/-104.728116°



West of Disturbance
Looking East
40.176300°/-104.728549°



East of Disturbance
Looking West
40.176397°/-104.727572°



Reclaim Area Vegetation
40.176753°/-104.727873°



Reclaim Transect 1
Looking East
40.177154°/-104.729012°



Reclaim Transect 2
Looking East
40.176138°/-104.728970°



Reference Area Vegetation
40.177537°/-104.728340°



Reference Transect 1
Looking South
40.177372°/-104.726615°



Reference Transect 2
Looking South
40.177356°/-104.725478°



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

COGCC Location Name (ID)- USA FED 28N - 36HZ (336306)

CO # COP0015

Date of Assessment - 07/06/2015

Transect ID - Reclaim Transect 1

Length of Transect (ft.) - 600'

Transect Type



Reclamation



Reference

Inspector(s) (Name and Title) - Cody Booth- Environmental Specialist

Weather at Time of Inspection - Overcast, 70 degrees F

Method - Step Point

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

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

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: Other forb species one is sunflower. Other grass species 1 is bread wheat

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)

Cody Booth- Environmental Specialist

CB

Date: 07/06/2015

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

COGCC Location Name (ID)- USA FED 28N - 36HZ (336306)

CO # COP0015

Date of Assessment - 07/06/2015

Transect ID - Reclaim Transect 2

Length of Transect (ft.) - 600'

Transect Type



Reclamation



Reference

Inspector(s) (Name and Title) - Cody Booth- Environmental Specialist

Weather at Time of Inspection - Overcast, 70 degrees F

Method - Step Point

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

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

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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Inspector (Name)

Cody Booth- Environmental Specialist

CB

Date: 07/06/2015

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

COGCC Location Name (ID)- USA FED 28N - 36HZ (336306)

CO # COP0015

Date of Assessment - 07/06/2015

Transect ID - Reference Transect 1

Length of Transect (ft.) -700

Transect Type

☐ Reclamation

☒ Reference

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

Weather at Time of Inspection - Cloudy 65

Method - Step Point

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

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
31	-		-		Litter
32	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
33	Forb	Helianthus annuus	B-Noxious Weed	Bromus tectorum	-
34	-		-		Litter
35	Noxious Weed	Bromus tectorum	-		Litter
36	-		-		-
37	-		-		Bare Ground
38	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
39	Noxious Weed	Bromus tectorum	-		Litter
40	Noxious Weed	Bromus tectorum	-		Litter
41	-		-		Litter
42	-		-		Litter
43	-		-		Litter
44	Forb	Helianthus annuus	B-Forb	Helianthus annuus	-
45	-		-		Litter
46	-		-		Litter
47	-		-		Litter
48	Forb	Helianthus annuus	-		Litter
49	Forb	Helianthus annuus	B-Forb	Helianthus annuus	-
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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Tyler Dooley-Environmental Scientist

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33	Forb	Helianthus annuus	B-Noxious Weed	Bromus tectorum	-
34	-		-		Litter
35	Noxious Weed	Bromus tectorum	-		Litter
36	-		-		-
37	-		-		Bare Ground
38	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
39	Noxious Weed	Bromus tectorum	-		Litter
40	Noxious Weed	Bromus tectorum	-		Litter
41	-		-		Litter
42	-		-		Litter
43	-		-		Litter
44	Forb	Helianthus annuus	B-Forb	Helianthus annuus	-
45	-		-		Litter
46	-		-		Litter
47	-		-		Litter
48	Forb	Helianthus annuus	-		Litter
49	Forb	Helianthus annuus	B-Forb	Helianthus annuus	-
50	-		-		Litter

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Tyler Dooley-Environmental Scientist

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