



January 21, 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 29N-36HZ (Location: 336318)  
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 the 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. All noxious weeds as defined 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 315.00% 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](mailto:chris.hines@apexcos.com)

Attachments:

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



## Vegetation Survey (Summary of Field Data)

<b>Client</b>	Kerr McGee Oil & Gas Onshore LLC
<b>COGCC Location Name (ID)</b>	USA Fed 29N-36HZ (336318)
<b>Assessment Date</b>	7/6/2015
<b>Inspector Name - Title</b>	Cody Booth- Environmental Specialist
<b>Data Processor Name - Title</b>	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:

<b>Reclaim Area (Foliar Cover)</b>	<b>Reference Area (Foliar Cover)</b>
$(54 + 0 + 0) / 160 =$ <b>33.75%</b>	$(4 + 11 + 0) / 140 =$ <b>10.71%</b>

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:

<b>Percent of Reference (Reclaim % / Reference %)</b>
$33.75\% / 10.71\% =$ <b>315.00%</b>

### Reclaim Area Vegetation

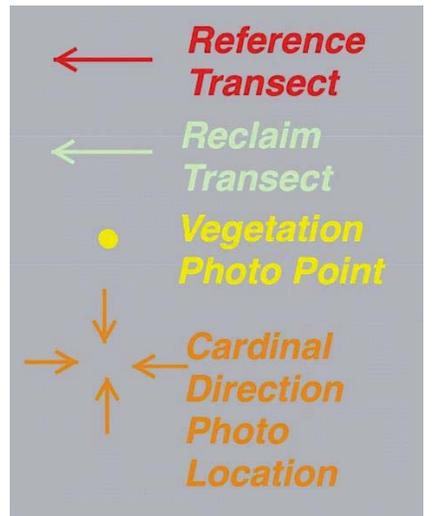
Foliar Cover	33.75%
Basal Cover	7.50%
Non Vegetated	54.38%
Noxious Weeds	4.38%
<b>QA Total</b> <i>(must equal 100)</i>	<b>100.00%</b>
Grass (Foliar)	54
Forb (Foliar)	0
Shrubs (Foliar)	0
Noxious Weed (Foliar)	6
Grass (Basal)	12
Forb (Basal)	0
Shrubs (Basal)	0
Noxious Weed (Basal)	1
Bare Ground	42
Litter	45
Rock	0
<b>Total Occurrences</b>	<b>160</b>

### Reference Area Vegetation

Foliar Cover	10.71%
Basal Cover	12.14%
Non Vegetated	55.00%
Noxious Weeds	22.14%
<b>QA Total</b> <i>(must equal 100)</i>	<b>100.00%</b>
Grass (Foliar)	4
Forb (Foliar)	11
Shrubs (Foliar)	0
Noxious Weed (Foliar)	25
Grass (Basal)	2
Forb (Basal)	15
Shrubs (Basal)	0
Noxious Weed (Basal)	6
Bare Ground	9
Litter	68
Rock	0
<b>Total Occurrences</b>	<b>140</b>

**Vegetation Survey Site Map**

USA FED 29N-36HZ  
(336318)



Legal Description: SWSW, Sec 36,  
T3N-R66W

County: Weld

Land Use: Rangeland

Reference Area Cover: 10.71%

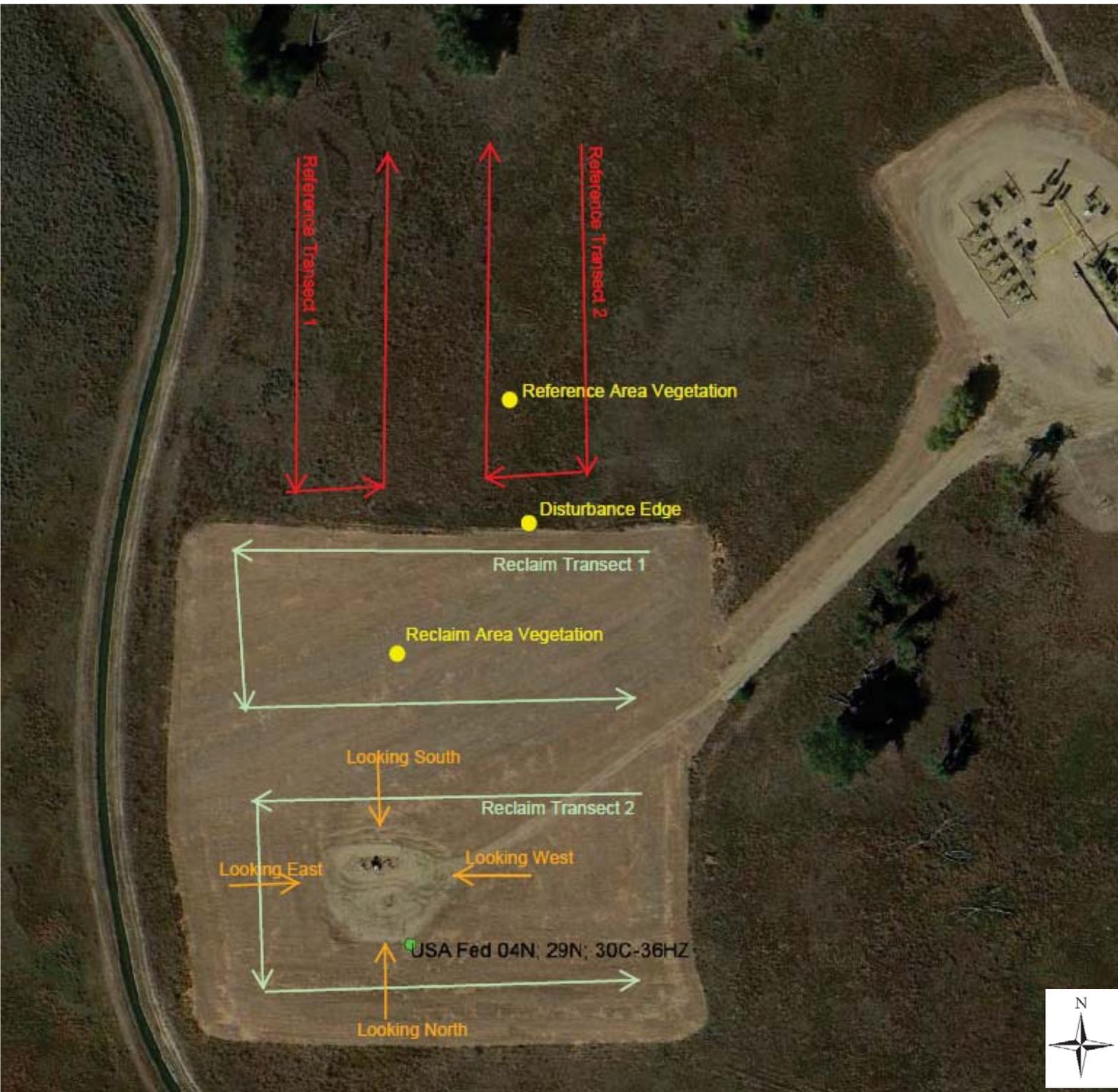
Reclamation Cover: 33.75%

Cover Ratio

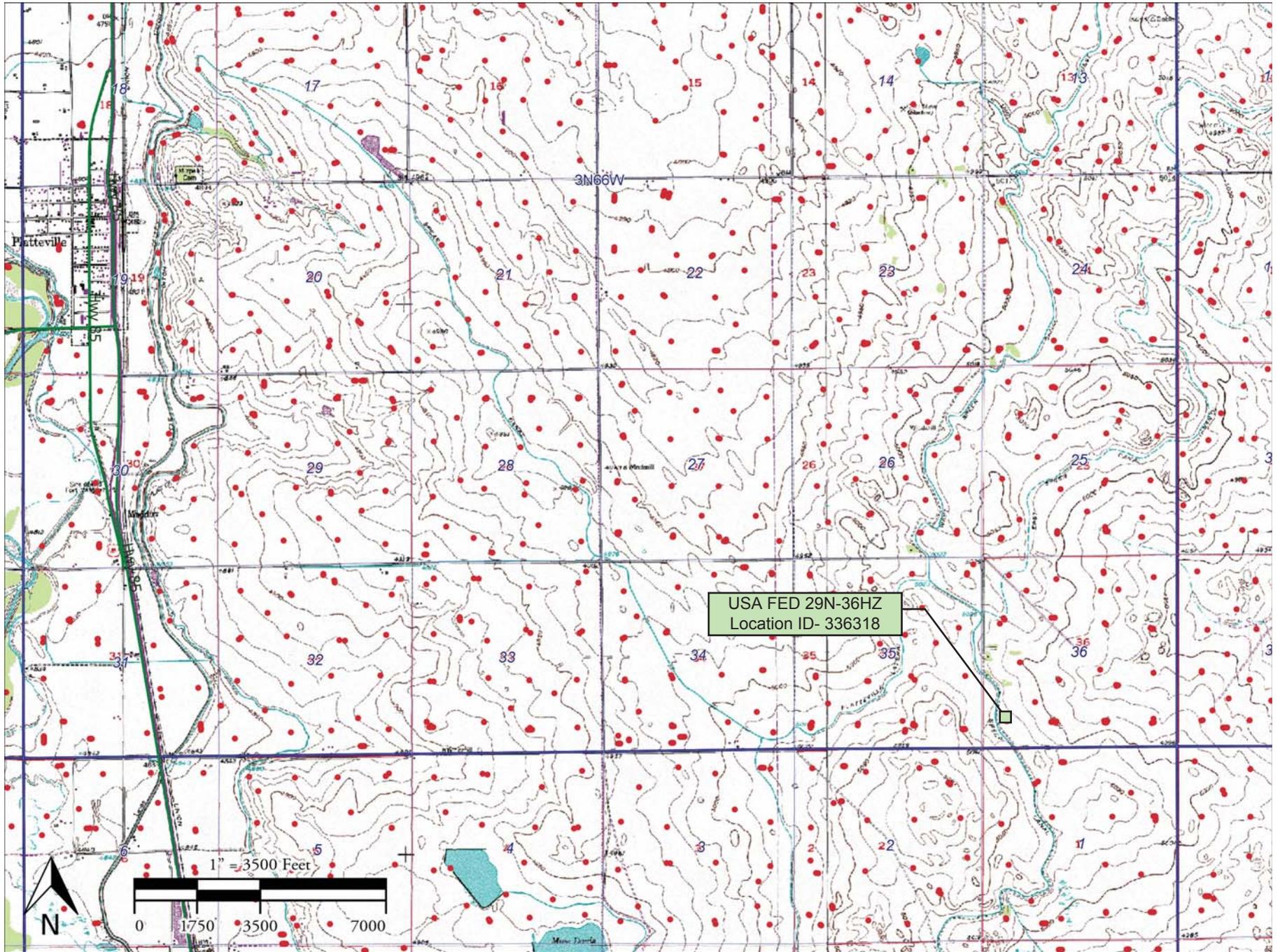
(Reclaim/Reference): 315.00%

Inspector: Cody Booth

Assessment Date: July 6, 2015



# USA FED 29N-36HZ (336318) Topographic Location Map



Edge of Disturbance on North Side of Pad  
Looking West  
40.177797°/-104.732288°



**Kerr McGee Oil & Gas Onshore LP  
Form 4 (Interim Reclamation Completion Notice)  
USA FED 29N-36HZ (336318)**

Vegetation Assessment  
Completed - July 6, 2015



South of Disturbance  
Looking North  
40.176459°/-104.732803°



North of Disturbance  
Looking South  
40.176953° /-104.732876°



West of Disturbance  
Looking East  
40.176683° / -104.733128°



East of Disturbance  
Looking West  
40.176733° /-104.732428°



Reclaim Area Vegetation  
40.177323°/ -104.732869°





Reference Area Vegetation  
40.178146°/-104.732492°



Reference Transect 1  
Looking North  
40.178709°/-104.733266°



Reference Transect 2  
Looking North  
40.178867°/-104.732226°



**VEGETATION MONITORING FORM - Kerr McGee Oil & Gas Onshore LLC**

COGCC Location Name (ID)- USA Fed 29N - 36HZ (336318)

CO # COP0016

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, 69 degrees F

Method - Step Point

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

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	Noxious Weed	Bromus tectorum	-		Bare Ground
31	Noxious Weed	Onopordum acanthium	-		Bare Ground
32	Grass	Other spp. 1	-		Litter
33	-		-		Bare Ground
34	Grass	Other spp. 3	B-Grass	Other spp. 3	-
35	Grass	Other spp. 1	B-Grass	Other spp. 1	-
36	-		-		Bare Ground
37	Grass	Other spp. 3	-		Bare Ground
38	-		-		Litter
39	Grass	Other spp. 3	B-Grass	Other spp. 3	-
40	Grass	Other spp. 3	-		Litter
41	-		-		Bare Ground
42	Grass	Other spp. 3	B-Grass	Other spp. 3	-
43	-		-		Bare Ground
44	-		-		Bare Ground
45	Grass	Other spp. 1	-		Bare Ground
46	Grass	Other spp. 1	-		Bare Ground
47	-		-		Bare Ground
48	Grass	Other spp. 1	B-Grass	Other spp. 1	-
49	Grass	Thinopyrum intermedia	-		Bare Ground
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: Other grass species 1 is bread wheat. Other grass species 2 is smooth brome

### 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



Date: 07/06/2015

**VEGETATION MONITORING FORM - Kerr McGee Oil & Gas Onshore LLC**

COGCC Location Name (ID)- USA Fed 29N - 36HZ (336318)		CO # COP0016	Date of Assessment - 07/06/2015
Transect ID - Reclaim Transect 2	Length of Transect (ft.) - 600'	Transect Type <input checked="" type="checkbox"/> Reclamation <input type="checkbox"/> Reference	
Inspector(s) (Name and Title) - Cody Booth- Environmental Specialist			
Weather at Time of Inspection - Overcast, 69 degrees F		Method - Step Point	

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

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	Grass	Thinopyrum intermedia	-		Bare Ground
31	Grass	Other spp. 1	-		Litter
32	-		-		Litter
33	-		-		Bare Ground
34	Grass	Other spp. 3	-		Bare Ground
35	-		-		Litter
36	Grass	Dactylis glomerata	-		Bare Ground
37	-		-		Bare Ground
38	Grass	Thinopyrum intermedia	-		Litter
39	Grass	Other spp. 3	-		Bare Ground
40	Grass	Other spp. 2	-		Litter
41	-		-		Litter
42	Grass	Thinopyrum intermedia	-		Litter
43	-		-		Bare Ground
44	-		-		Bare Ground
45	Grass	Thinopyrum intermedia	-		Litter
46	Grass	Other spp. 1	-		Litter
47	-		-		Litter
48	Grass	Other spp. 3	-		Bare Ground
49	Grass	Other spp. 3	-		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: Other grass species 1 is bread wheat. Other grass species 2 is brome

#### INSPECTION CERTIFICATION

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Inspector (Name)

Cody Booth- Environmental Specialist



Date: 07/06/2015

**VEGETATION MONITORING FORM - Kerr McGee Oil & Gas Onshore LLC**

COGCC Location Name (ID)- USA Fed 29N - 36HZ (336318)		CO # COP0016	Date of Assessment - 07/06/2015
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) - Cody Booth- Environmental Specialist			
Weather at Time of Inspection - Cloudy 65F		Method - Step Point	

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

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	-		-		Litter
31	-		-		Litter
32	-		-		Bare Ground
33	-		-		Litter
34	-		-		Litter
35	-		-		Litter
36	-		-		Litter
37	Grass	Other spp. 1	B-Forb	Other spp. 2	-
38	-		-		Litter
39	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
40	-		-		Bare Ground
41	-		-		Litter
42	-		-		Bare Ground
43	Grass	Schizachyrium scoparium	B-Grass	Schizachyrium scoparium	-
44	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
45	-		-		Bare Ground
46	-		-		Litter
47	-		-		Litter
48	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
49	Noxious Weed	Bromus tectorum	-		Litter
50	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-

**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)

Cody Booth- Environmental Specialist



Date: 07/06/2015

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Inspector(s) (Name and Title) - Cody Booth- Environmental Specialist			
Weather at Time of Inspection - Cloudy 65F		Method - Step Point	

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

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	Grass	Schizachyrium scoparium	B-Grass	Schizachyrium scoparium	-
31	-		-		Litter
32	-		-		Litter
33	-		-		Litter
34	-		-		Litter
35	-		-		Litter
36	-		-		Litter
37	-		-		Litter
38	-		-		Litter
39	-		-		Litter
40	Forb	Other spp. 1	B-Forb	Other spp. 1	-
41	-		-		Litter
42	Forb	Other spp. 1	B-Forb	Other spp. 1	-
43	Forb	Other spp. 3	B-Forb	Other spp. 3	-
44	-		-		Litter
45	Noxious Weed	Bromus tectorum	-		Litter
46	Noxious Weed	Bromus tectorum	B-Forb	Salsola spp.	-
47	Noxious Weed	Bromus tectorum	-		Litter
48	Noxious Weed	Bromus tectorum	B-Forb	Other spp. 1	-
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
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#### General Notes:

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Inspector (Name)

Cody Booth- Environmental Specialist



Date: 07/06/2015