



March 3, 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)
Sparboe 1N-26HZ (Location: 430669)
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 and 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 14, 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 235.29% 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', is 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)	Sparboe 1N-26HZ (430669)
Assessment Date	7/14/2015
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)
$(38 + 7 + 0) / 153 =$ 29.41%	$(12 + 6 + 0) / 144 =$ 12.50%

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 %)
$29.41\% / 12.50\% =$ 235.29%

Reclaim Area Vegetation

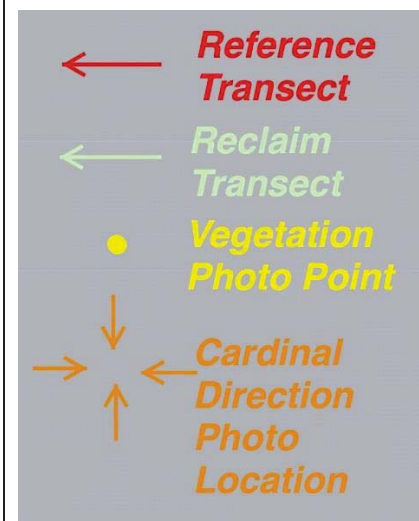
Foliar Cover	29.41%
Basal Cover	13.73%
Non Vegetated	50.98%
Noxious Weeds	5.88%
QA Total <i>(must equal 100)</i>	100.00%
Grass (Foliar)	38
Forb (Foliar)	7
Shrubs (Foliar)	0
Noxious Weed (Foliar)	9
Grass (Basal)	18
Forb (Basal)	3
Shrubs (Basal)	0
Noxious Weed (Basal)	0
Bare Ground	16
Litter	62
Rock	0
Total Occurrences	153

Reference Area Vegetation

Foliar Cover	12.50%
Basal Cover	5.56%
Non Vegetated	54.17%
Noxious Weeds	27.78%
QA Total <i>(must equal 100)</i>	100.00%
Grass (Foliar)	12
Forb (Foliar)	6
Shrubs (Foliar)	0
Noxious Weed (Foliar)	26
Grass (Basal)	8
Forb (Basal)	0
Shrubs (Basal)	0
Noxious Weed (Basal)	14
Bare Ground	0
Litter	78
Rock	0
Total Occurrences	144

Vegetation Survey Site Map

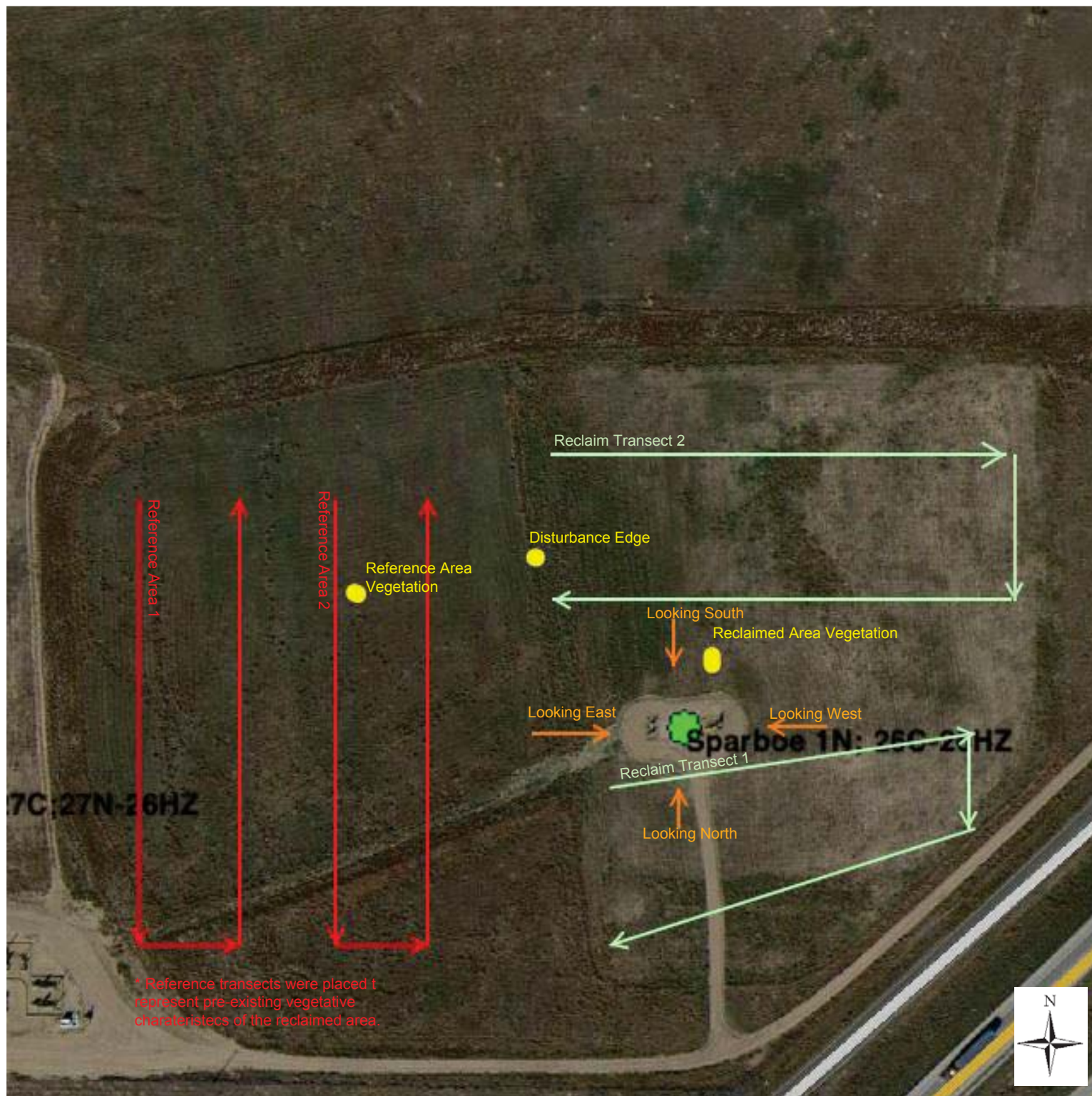
Sparboe 1N-26HZ
(430669)



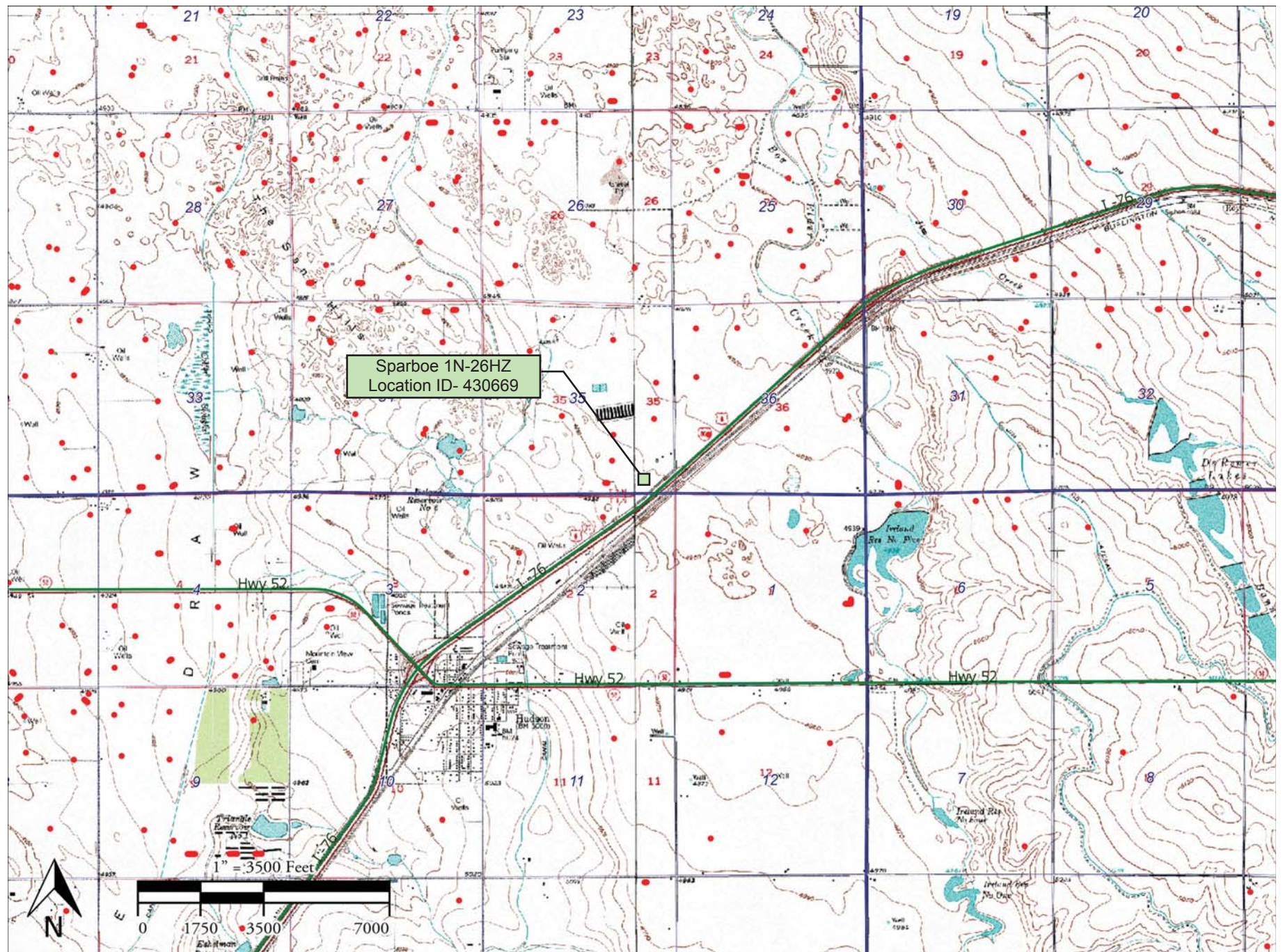
Legal Description: SESE, Sec 35,
T2N-R65W
County: Weld

Land Use: Rangeland
Reference Area Cover: 12.50%
Reclamation Cover: 29.41%
Cover Ratio
(Reclaim/Reference): 235.29%

Inspector: Tyler Dooley
Assessment Date: July 14, 2015



Sparboe 1N-26HZ (430669) Topographic Location Map



Edge of disturbance on west side
of pad looking south.
40.088990°/-104.625165°



Kerr-McGee Oil & Gas Onshore LP
Form 4 (Interim Reclamation Completion Notice)
Sparboe 1N-26HZ (430669)

Vegetation Assessment
Completed - July 14, 2015



South of Disturbance
Looking North
40.088449°/-104.624701°



North of Disturbance
Looking South
40.088753°/-104.624684°



West of Disturbance
Looking East
40.088578°/-104.625035°



East of Disturbance
Looking West
40.088580°/-104.624389°



Reclaim Area Vegetation
40.088796°/-104.624534°



Reclaim Transect 1
Looking Northeast
40.088387°/-104.624908°



Reclaim Transect 2
Looking East
40.089488°/-104.625069°



Reference Area Vegetation
40.088779°/-104.625858°



Reference Transect 1
Looking South
40.089216°/-104.626761°



Reference Transect 2
Looking South
40.089216°/-104.626027°



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

COGCC Location Name (ID)- Sparboe 1N - 26HZ (430669)

CO # COP0232

Date of Assessment - 07/14/2015

Transect ID - Reclaim Transect 1

Length of Transect (ft.) - 500

Transect Type



Reclamation



Reference

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

Weather at Time of Inspection - Partly cloudy, 80 degrees F

Method - Step Point

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

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

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 Scientist

TD

Date: 07/14/2015

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

COGCC Location Name (ID)- Sparboe 1N - 26HZ (430669)

CO # COP0232

Date of Assessment - 07/14/2015

Transect ID - Reclam Transect 2

Length of Transect (ft.) - 500

Transect Type



Reclamation



Reference

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

Weather at Time of Inspection - Partly cloudy, 80 degrees F

Method - Step Point

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

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

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 Scientist

TD

Date: 07/14/2015

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

COGCC Location Name (ID)- Sparboe 1N - 26HZ (430669)

CO # COP0232

Date of Assessment - 07/14/2015

Transect ID - Reference Transect 1

Length of Transect (ft.) - 600

Transect Type

☐ Reclamation

☒ Reference

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

Weather at Time of Inspection - Sunny 83

Method - Step Point

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

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
30	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
31	Forb	Salsola spp.	-		Litter
32	-		-		Litter
33	-		-		Litter
34	-		-		Litter
35	-		-		Litter
36	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
37	-		-		Litter
38	-		-		Litter
39	-		-		Litter
40	Grass	Panicum virgatum	-		Litter
41	-		-		Litter
42	Grass	Panicum virgatum	-		Litter
43	-		-		Litter
44	-		-		Litter
45	-		-		Litter
46	-		-		Litter
47	-		-		Litter
48	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
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
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Tyler Dooley-Environmental Scientist

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COGCC Location Name (ID)- Sparboe 1N - 26HZ (430669)

CO # COP0232

Date of Assessment - 07/14/2015

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 - Sunny 83

Method - Step Point

Point	Foliar		Basal		Non-Vegetative
	Type	Species	Type	Species	
1	Noxious Weed	Bromus tectorum	B-Grass	Bromus tectorum	-
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3	Forb	Lactuca serriola	-		Litter
4	-		-		Litter
5	-		-		Litter
6	Grass	Panicum virgatum	B-Grass	Panicum virgatum	-
7	-		-		Litter
8	Noxious Weed	Bromus tectorum	-		Litter
9	Noxious Weed	Bromus tectorum	B-Grass	Bromus tectorum	-
10	Noxious Weed	Bromus tectorum	-		Litter
11	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
12	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
13	Forb	Salsola spp.	-		Litter
14	-		-		Litter
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19	-		-		Litter
20	-		-		Litter
21	-		-		Litter
22	-		-		Litter
23	-		-		Litter
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25	Grass	Panicum virgatum	-		Litter
26	-		-		Litter
27	-		-		Litter
28	-		-		Litter
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	Type	Species	Type	Species	
30	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
31	Forb	Salsola spp.	-		Litter
32	-		-		Litter
33	-		-		Litter
34	-		-		Litter
35	-		-		Litter
36	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
37	-		-		Litter
38	-		-		Litter
39	-		-		Litter
40	Grass	Panicum virgatum	-		Litter
41	-		-		Litter
42	Grass	Panicum virgatum	-		Litter
43	-		-		Litter
44	-		-		Litter
45	-		-		Litter
46	-		-		Litter
47	-		-		Litter
48	Noxious Weed	Bromus tectorum	B-Noxious Weed	Bromus tectorum	-
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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Tyler Dooley-Environmental Scientist

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