



COLORADO

Oil & Gas Conservation
Commission

Department of Natural Resources

1120 Lincoln Street, Suite 801
Denver, CO 80203

September 8, 2016

Fred Krumpeck
17313 CR 38
Platteville, CO 80651

Dear Mr. Krumpeck,

The Colorado Oil and Gas Conservation Commission (COGCC) received your complaint regarding reclamation and weeds. Your complaint is documented in COGCC document numbers 200440029, which can be found via the "Complaints" link, on our website (<http://cogcc.state.co.us/>). COGCC staff investigated this complaint and documented the results in COGCC document numbers 200440035.

The following actions were taken to address your complaint:

- On 08/05/2016 COGCC Reclamation Inspector Chris Binschus met you at the Rissler State location operated by Kerr McGee Oil & Gas (KMG) and conducted an interim reclamation inspection (documented in Field Inspection Report [FIR] #682401098, attached);
- During the inspection, Mr. Binschus determined that the interim reclamation area is not in compliance with COGCC rules as it does not meet plant cover of at least 80% of reference areas and is dominated by undesirable species. Mr. Binschus noted little to no desirable plant species have established affecting the ability to graze the area with livestock;
- FIR #682401098 was issued with corrective action to provide a reclamation plan by the corrective action date of 8/22/16,
- On 08/08/2016 Mr. Binschus contacted the operator to make them aware of the issues described in your complaint and the corrective actions in FIR #682401098;
- On 08/19/2016, KMG spot sprayed puncturevine (*Tribulus terrestris*), a noxious weed, with herbicides to mitigate the occurrence throughout the well pad area;
- On 08/29/2016, KMG submitted a Reclamation Plan (attached) with the following information: "The Operator will conduct informal weekly inspections during the 2017 growing season to determine proper times to mow to mitigate the undesirable species from spreading through the disturbance area. Multiple mowing operations will then be conducted to prevent seed production by the undesirable species. In addition, stormwater run-on BMPs will be installed on the

P 303.894.2100 F 303.894.2109 www.colorado.gov/cogcc

Commissioners: Andrew L. Spielman - Chairman, Ashley L. Ager, John H. Benton,
James W. Hawkins, Tommy Holton, Kent Jolley, W. Perry Pearce, Robert W. Randall, Dr. Larry Wolk
John W. Hickenlooper, Governor | Robert W. Randall, Executive Director, DNR | Matthew J. Lepore, Director



Mr. Krumpeck
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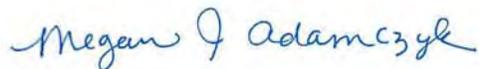
southern location to further protect vegetative growth until desirable species establish"; and

- On 08/29/2016 Mr. Binschus contacted you to explain KMG's plans to address the issues described in FIR #682401098.

Based on the above described investigation, the COGCC will not issue a notice of alleged violation (NOAV) related to this complaint. Accordingly, the COGCC has closed your complaint.

If you have questions regarding this complaint or the investigation or if the referenced corrective actions do not take place, please contact me.

Sincerely,

A handwritten signature in blue ink that reads "Megan J. Adamczyk". The signature is written in a cursive, flowing style.

Megan Adamczyk, Complaint Specialist
Phone: 888-235-1101
Email: dnr_cogcc.complaints@state.co.us

FORM INSP
Rev 05/11

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Inspection Date:
08/05/2016
Document Number:
682401098
Overall Inspection:
ACTION REQUIRED

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	<u>438445</u>	<u>306150</u>	<u>Binschus, Chris</u>	<input type="checkbox"/>	

Operator Information:

OGCC Operator Number: 47120
Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP
Address: P O BOX 173779
City: DENVER State: CO Zip: 80217-

- THIS IS A FOLLOW UP INSPECTION
- FOLLOW UP INSPECTION REQUIRED
- NO FOLLOW UP INSPECTION REQUIRED
- INSPECTOR REQUESTS FORM 42 WHEN CORRECTIVE ACTIONS ARE COMPLETED

Contact Information:

Contact Name	Phone	Email	Comment
Arthur, Denise		denise.arthur@state.co.us	
		COGCCinspections@anadarko.com	

Compliance Summary:

QtrQtr: SESW Sec: 36 Twp: 4N Range: 66W

Inspector Comment:

Inspection in response to complaint #200440029 (see complaint section). See COGCC comments section for corrective actions and corrective action dates. Corrective action dates will be shorter than normal because this is a complaint and because undesirable plant species could spread and threaten adjacent lands.

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
285850	WELL	PR	05/20/2010	GW	123-24063	STEPHENS STATE 35-36	RI	<input checked="" type="checkbox"/>
438445	WELL	PR	06/05/2015	OW	123-39974	RISSLER STATE 3N-36HZ	RI	<input checked="" type="checkbox"/>
438446	WELL	PR	06/05/2015	OW	123-39975	RISSLER STATE 30N-36HZ	RI	<input checked="" type="checkbox"/>
438447	WELL	PR	08/01/2015	GW	123-39976	RISSLER STATE 29C-36HZX	RI	<input checked="" type="checkbox"/>
438448	WELL	PR	06/05/2015	OW	123-39977	RISSLER STATE 4N-36HZ	RI	<input checked="" type="checkbox"/>

Equipment:

Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>5</u>	Production Pits: _____
Condensate Tanks: _____	Water Tanks: _____	Separators: _____	Electric Motors: _____
Gas or Diesel Mortors: _____	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: <u>4</u>
Electric Generators: _____	Gas Pipeline: _____	Oil Pipeline: _____	Water Pipeline: _____
Gas Compressors: _____	VOC Combustor: _____	Oil Tanks: _____	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: _____	Flare: _____	Fuel Tanks: _____

Location

Inspector Name: Binschus, Chris

Emergency Contact Number (S/AR): _____	Corrective Date: _____
Comment: _____	
Corrective Action: _____	

Spills:				
Type	Area	Volume	Corrective action	CA Date
<input type="checkbox"/> Multiple Spills and Releases?				

Venting:	
Yes/No	_____
Comment	_____

Flaring:	
Type	Satisfactory/Action Required
Comment:	_____
Corrective Action:	Correct Action Date: _____

Predrill			
Location ID: <u>438445</u>	Lease Road Adeq.: _____	Pads: _____	Soil Stockpile: _____
S/AR: _____	Corrective Action: _____	Date: _____	CDP Num.: _____
Form 2A COAs:			
S/AR: _____	Comment: _____	_____	
CA: _____	_____	Date: _____	

Wildlife BMPs:	
BMP Type	Comment
Noise mitigation	604c.(2).A. Noise: Pending a safety review after construction of the location, sound mitigation barriers (hay bales) will be placed along the south and west perimeter of the pad location to damper noise during drilling and completions to the nearby building units. Sound surveys that have been conducted on each rig type are utilized to anticipate any additional noise mitigation once a drilling rig is determined.
Drilling/Completion Operations	604c.(2).K. Pit Level Indicators: All tanks (used in lieu of pits) contain pit level monitors with Electronic Drilling Recorders (EDR). KMG uses EDRs with pit level monitor(s) and alarm(s) for production rigs. Basic level gauges are used on tanks utilized for the surface rig.
General Housekeeping	604c.(2).O. Loadlines: All loadlines shall be bullplugged or capped.
Material Handling and Spill Prevention	604c.(2).N. Control of Fire Hazards: KMG and its contractors will employ best management practices during the drilling and production of its wells and facilities and will comply with appropriate COGCC rules concerning safety and fire. KMG will ensure that any material that might be deemed a fire hazard will remain no less than twenty-five (25) feet from the wellhead(s), tanks and separator(s).
Storm Water/Erosion Control	604c.(2).W. Site-Specific Measures: KMG maintains a Stormwater Management Plan that assesses erosion control for every KMG operated location. This location will be added to this plan once construction begins. This site will be inspected every fourteen (14) days during construction activities, every thirty (30) days after construction is completed, and after any major weather event.

Construction	604c.(2).M. Fencing Requirements: The completed wellsites will be surrounded with a fence and gate with adequate lock to restrict access to authorized personnel only. KMG personnel will monitor the wellsites regularly upon completion of the wells. Authorized representatives and/or KMG personnel shall be on-site during drilling and completion operations.
Planning	604c.(2).S. Access Roads: KMG will utilize a lease access road from County Road 35 for drilling operations and maintenance equipment. The road will be properly constructed and maintained to accommodate for local emergency vehicle access. Water will be placed on dirt access roads to mitigate dust as needed. If feasible, magnesium chloride will also be used as needed on access roads to further abate dust.
General Housekeeping	604c.(2).P. Removal of Surface Trash: A commercial size trash bin for removing debris will be located on site. This bin will be for use by all parties affiliated with the operation.
Traffic control	604c.(2).D. Traffic Plan: If required by the local government, a traffic plan will be coordinated with the local jurisdiction prior to commencement of operations.
Drilling/Completion Operations	604c.(2).I. BOPE Testing for Drilling Operations: Upon initial rig-up, BOPEs will be tested at a minimum of every 30 days.
Final Reclamation	604c.(2).T. Well Site Cleared: The wellsite will be cleared of all non-essential equipment within ninety (90) days after all wells associated with the pad have been plugged and abandoned.
Drilling/Completion Operations	604c.(2).L. Drill Stem Tests: No drill stem tests are planned and none will be performed without prior approval from the Director.
Final Reclamation	604c.(2).U. Identification of Plugged and Abandoned Wells: Pursuant to rule 319.a.(5)., once the well has been plugged and abandoned, KMG will identify the location of the wellbore with a permanent monument that will detail the well name and date of plugging.
Planning	604c.(2).Q. Guy Line Anchors: Should guy line anchors be left buried for future use, they shall be identified by a bright marker greater than four (4) feet high and no more than one (1) foot east of the guy line anchor.
Planning	604c.(2).E. Multiwell Pads: In order to reduce surface impact, this application is for a four-well pad.
Planning	604c.(2).V. Development From Existing Well Pads: KMG will locate the four proposed horizontal wells on the existing well pad with location ID #306150 to reduce the amount of surface disturbance associated with this project.
Planning	604c.(2).R. Tank Specifications: Two 500 barrel skid-mounted frac tanks will be temporarily placed on-site for use of the pre-spud rig only. One tank will store water and the other will store water based mud.
Drilling/Completion Operations	604c.(2).B. Closed Loop Drilling System: KMG will use a closed loop or "pitless" system for drilling and fluid management and will not construct a reserve pit.
Drilling/Completion Operations	604c.(2).H. BOPE: Our rigs at a minimum will have a double ram with blind and pipe ram; and annular preventer.
Drilling/Completion Operations	604c.(2).J. BOPE for Well Servicing Operations: Blowout prevention equipment will be used on any servicing operations associated with this well. Backup stabbing valves will be used during any future servicing operations during reverse circulation. Valves shall be pressure tested before each well servicing operation using low-pressure air and high-pressure fluid.

S/AR: _____ **Comment:** _____

CA: _____ **Date:** _____

Comment: _____

Staking:

On Site Inspection (305):

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

Operator Rep. Contact Information:

Landman Name: _____ Phone Number: _____

Date Onsite Request Received: _____ Date of Rule 306 Consultation: _____

Inspector Name: Binschus, Chris

Request LGD Attendance: _____

LGD Contact Information:

Name: _____ Phone Number: _____ Agreed to Attend: _____

Summary of Landowner Issues:

Summary of Operator Response to Landowner Issues:

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

Facility

Facility ID: 285850 Type: WELL API Number: 123-24063 Status: PR Insp. Status: RI

Facility ID: 438445 Type: WELL API Number: 123-39974 Status: PR Insp. Status: RI

Facility ID: 438446 Type: WELL API Number: 123-39975 Status: PR Insp. Status: RI

Facility ID: 438447 Type: WELL API Number: 123-39976 Status: PR Insp. Status: RI

Facility ID: 438448 Type: WELL API Number: 123-39977 Status: PR Insp. Status: RI

Complaint

Comment: **Complaint #200440029 is due to concerns regarding interim reclamation on approximately 7.5 acres of cropland. See complaint #200440029 for full details.**

On August 5, 2016, COGCC performed an interim reclamation inspection and found the interim area is not in compliance with Rule 1003. Interim reclamation area has not been reclaimed that reflects cropland reference areas with total percent plant cover of at least 80% of reference areas. Interim area is dominated by undesirable species- Cenchrus longispinus, Elymus sp., Kochia scoparia, Salsola sp., and Tribulus terrestris. Very little to no desirable plant species have established affecting the land owners ability to graze the area with livestock.

Refer to attached location photos documenting failed interim reclamation in Document #682401101.

Environmental

Spills/Releases:

Type of Spill: _____ Description: _____ Estimated Spill Volume: _____

Comment: _____

Corrective Action: _____ Date: _____

Reportable: _____ GPS: Lat _____ Long _____

Proximity to Surface Water: _____ Depth to Ground Water: _____

Water Well:

Lat Long

DWR Receipt Num: _____ Owner Name: _____ GPS : _____

Field Parameters:

Sample Location: _____

Emission Control Burner (ECB): _____

Comment: _____

Pilot: _____ Wildlife Protection Devices (fired vessels): _____

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: _____ Date Interim Reclamation Completed: _____

Land Use: DRY LAND

Comment: _____

1003a. Waste and Debris removed? _____

CM _____

CA _____ CA Date _____

Unused or unneeded equipment onsite? _____

CM _____

CA _____ CA Date _____

Pit, cellars, rat holes and other bores closed? _____

CM _____

CA _____ CA Date _____

Guy line anchors marked? _____

CM _____

CA _____ CA Date _____

1003b. Area no longer in use? **Fail** Production areas stabilized? _____

1003c. Compacted areas have been cross ripped? _____

1003d. Drilling pit closed? _____ Subsidence over on drill pit? _____

Cuttings management: _____

1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? _____

Production areas have been stabilized? _____ Segregated soils have been replaced? _____

RESTORATION AND REVEGETATION

Cropland

Top soil replaced _____ Recontoured _____ Perennial forage re-established **Fail**

Non-Cropland

Top soil replaced _____ Recontoured _____ 80% Revegetation _____

1003 f. Weeds Noxious weeds? _____ **F**

Comment: **See COGCC comments section for corrective actions and corrective action dates.**

Overall Interim Reclamation **Fail**

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: _____ Date Final Reclamation Completed: _____

Final Land Use: DRY LAND

Reminder: _____

Comment: _____

Well plugged _____ Pit mouse/rat holes, cellars backfilled _____

Debris removed _____ No disturbance /Location never built _____

Inspector Name: Binschus, Chris

Access Roads	Regraded _____	Contoured _____	Culverts removed _____
	Gravel removed _____		
Location and associated production facilities reclaimed _____		Locations, facilities, roads, recontoured _____	
Compaction alleviation _____	Dust and erosion control _____		
Non cropland: Revegetated 80% _____		Cropland: perennial forage _____	
Weeds present _____	Subsidence _____		
Comment:	<input style="width:100%;" type="text"/>		
Corrective Action:	<input style="width:60%;" type="text"/>	Date _____	
Overall Final Reclamation _____	Well Release on Active Location <input type="checkbox"/>	Multi-Well Location <input type="checkbox"/>	

Storm Water:						
Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment

Pits: NO SURFACE INDICATION OF PIT

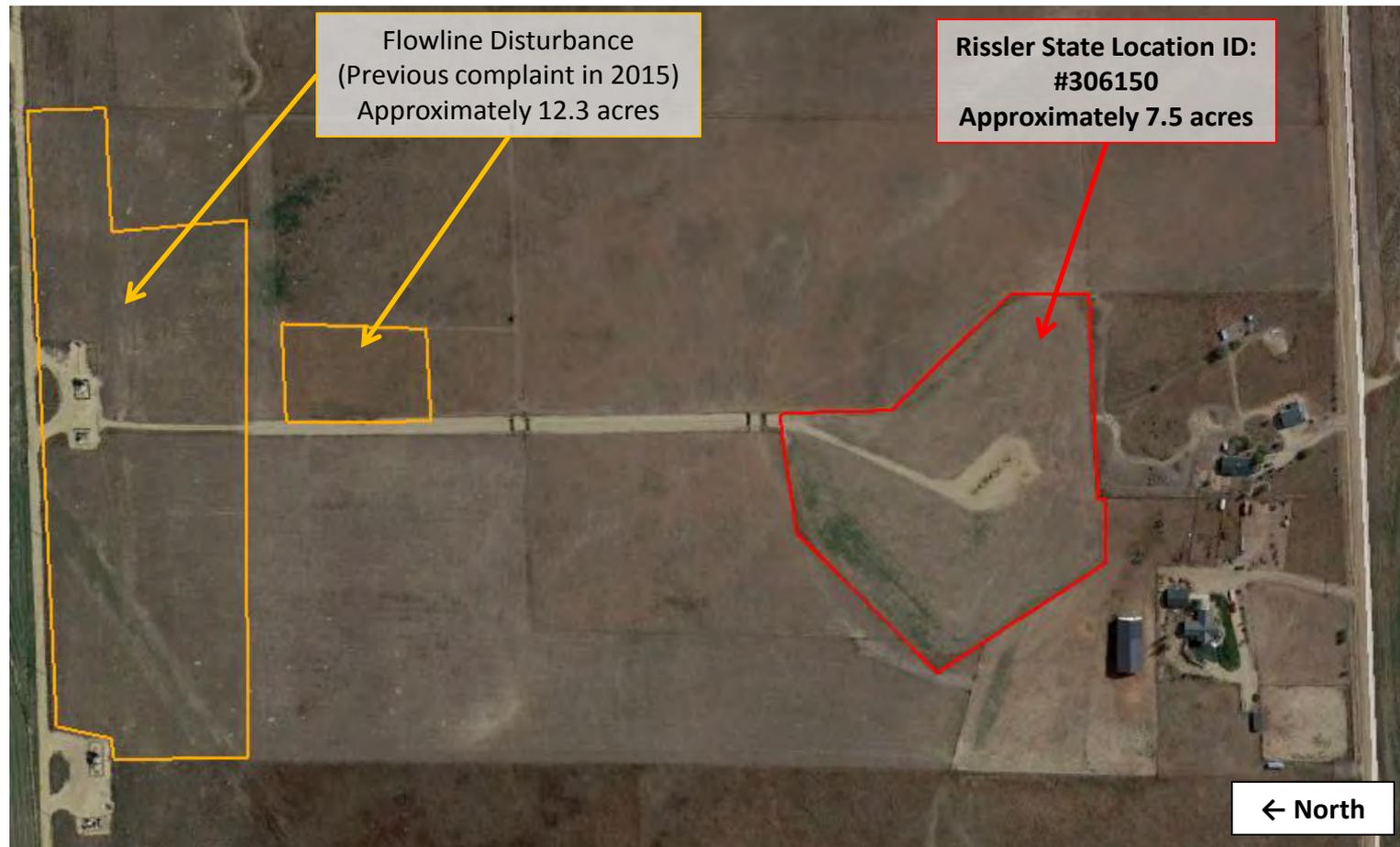
COGCC Comments		
Comment	User	Date
<p>Provide a reclamation plan attached to a Form 4 by CA date of 8/22/16, assigned to Chris Binschus. The reclamation plan should include a minimum of a schedule for reclamation activities, weed management plan, monitoring plan, stormwater management plan during and after reclamation activities, fertilizer/soil amendments (if needed), soil test (if needed), approved landowner seed mixture, seed application method, and mulch type. After approval of the reclamation plan, a new corrective action date to perform interim reclamation work will be set through the Form 4 process. Also, submission of vegetative monitoring data shall be sent to COGCC on a bi-weekly schedule during the active growing season(s).</p> <p>Previous complaint filed on 11/17/15 regarding an undesirable species- Cenchrus longispinus- that dominated a flowline disturbance area and a well pad totaled approximately 12.3 acres of cropland. Reclamation is currently IN PROCESS. Current complaint filed on 8/4/16 regarding failed interim reclamation totals approximately 7.5 acres of cropland. With the combined complaints, approximately 20.0 acres of the 80.0 acres owned by the land owner is currently unavailable to graze due to undesirable plant species establishment from oil and gas disturbance.</p>	binschusc	08/08/2016

Attached Documents

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
682401101	Location Photos	LocationPhotos_080516.pdf

Complaint #200440029
Rissler State Location ID: #306150



Google Earth aerial imagery taken 10/09/15 illustrating areas of interest. Rissler State Location ID: #306150 is the area of concern highlighted in red regarding failed interim reclamation on approximately 7.5 acres of cropland. Interim area is dominated by undesirable species- *Cenchrus longispinus*, *Elymus sp.*, *Kochia scoparia*, *Salsola sp.*, and *Tribulus terrestris*. Very little to no desirable plant species have established affecting the land owners ability to graze the area with livestock.

Previous complaint filed on 11/17/15 regarding an undesirable species- *Cenchrus longispinus*- that dominated the flowline disturbance area totaled approximately 12.3 acres. Reclamation is currently IN PROCESS. Approximately 20.0 acres of the 80.0 acres owned by the land owner is currently unavailable to graze due to undesirable plant species establishment from oil and gas disturbance.

Complaint #200440029



Photo 1. Photo taken from the south central location, facing East. Wildrye (*Elymus* sp.) and Kochia (*Kochia scoparia*) dominate interim area.

Complaint #200440029



Photo 2. Photo taken from the south central location, facing North. Wildrye (*Elymus* sp.) and Kochia (*Kochia scoparia*) dominate interim area.

Complaint #200440029



Photo 3. Photo taken from the south central location, facing West. Wildrye (*Elymus* sp.) and Kochia (*Kochia scoparia*) dominate interim area.

Complaint #200440029



Photo 4. Close-up photo of puncturevine (*Tribulus terrestris*) that has established in many areas throughout the interim area.

Complaint #200440029



Photo 5. Close-up photo of Russian thistle (*Salsola sp.*).

Complaint #200440029



Photo 6. Close-up photo of longspine sandbur (*Cenchrus longispinus*).

Complaint #200440029



Photo 7. Photo taken from the eastern location, facing West. Notice the puncturevine and Kochia dominating the interim area.



Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, Colorado 80202
720-929-6000 Fax 720-929-7000

August 29, 2016

Mr. Chris Binschus
Reclamation Specialist
Colorado Oil & Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

Re: COGCC Inspection Number 682401098
Rissler State 4N-36HZ Well Pad
Facility ID: 306150
SESW Sec. 36-T4N-R66W, Weld County, Colorado

Dear Mr. Binschus,

Kerr-McGee received COGCC Inspection number 682401098 on August 8, 2016, requesting weed maintenance and a reclamation plan as corrective actions. Kerr-McGee has completed the weed maintenance. Kerr-McGee also developed the following reclamation plan after multiple conversations with Denise Arthur, COGCC Reclamation Supervisor.

On August 19, 2016, a mixture of WideMatch® and Milestone® herbicides with Chemsurf 90 surfactant was spot sprayed on the well pad to mitigate the occurrence of puncturevine (*Tribulus terrestris*), a Colorado Department of Agriculture List C Noxious Weed.

The most recent site inspection shows the presence of desirable grass species. However, undesirable vegetation species are present on the location. Per the consultations with Ms. Arthur, Kerr-McGee will conduct informal weekly inspections during the 2017 growing to determine proper times to mow to mitigate the undesirable species from spreading through the disturbance area. Multiple mowing operations will then be conducted to prevent seed production by the undesirable species.

To further protect the vegetative grass stand growing on the well pad disturbance area, run-on protection will be installed on the south side of the well pad pending surface owner approval.

Feel free to contact me at 970-515-1431 if you have any questions regarding this information.

Sincerely,

Kerr-McGee Oil & Gas Onshore LP


Paul Schwarz
HSE Representative