

**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



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Inspection Date:

10/04/2013

Document Number:

663902266

Overall Inspection:

Satisfactory**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	413761	413761	LONGWORTH, MIKE	<input type="checkbox"/>	

Operator Information:

OGCC Operator Number:

Name of Operator: WPX ENERGY ROCKY MOUNTAIN LLCAddress: 1001 17TH STREET - SUITE #1200City: DENVER State: CO Zip: 80202

- ☐ 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
Gardner, Michael	970/285-9377 ext. 2760	Michael.Gardner@WPXEnerg y.com	Principal Environmental Specialist
Moss, Brad	(970) 285-9377	Brad.Moss@WPXEnerg.com	Production foreman
KELLERBY, SHAUN		shaun.kellerby@state.co.us	

Compliance Summary:QtrQtr: SWNE Sec: 1 Twp: 7S Range: 96W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Unsatisfactory	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
07/11/2013	663801237			S			N
05/24/2013	663801053			S			N

Inspector Comment:**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
159295	UIC DISPOSAL	AC	10/20/2009		-	GM 923-1D INJECTION WELL	<input type="checkbox"/>
159296	UIC DISPOSAL	AC	10/21/2009		-	GM 943-1D INJECTION WELL	<input type="checkbox"/>
159297	UIC DISPOSAL	AC	10/20/2009		-	GM 931-1D INJECTION WELL	<input type="checkbox"/>
412081	WELL	IJ	05/06/2009	STRT	045-18424	Williams GM 923-1D	<input checked="" type="checkbox"/>
412082	WELL	IJ	05/06/2009	STRT	045-18425	Williams GM 931-1D	<input checked="" type="checkbox"/>
412083	WELL	SI	02/13/2013	GW	045-18426	Williams GM 943-1D	<input checked="" type="checkbox"/>

Equipment:Location Inventory

Inspector Name: LONGWORTH, MIKE

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>3</u>	Production Pits: _____
Condensate Tanks: _____	Water Tanks: <u>1</u>	Separators: <u>1</u>	Electric Motors: _____
Gas or Diesel Mortors: _____	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: <u>1</u>	Oil Pipeline: _____	Water Pipeline: <u>2</u>
Gas Compressors: _____	VOC Combustor: _____	Oil Tanks: _____	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: _____	Flare: _____	Fuel Tanks: _____

Location

<u>Lease Road:</u>				
Type	Satisfactory/Unsatisfactory	comment	Corrective Action	Date
Main	Satisfactory			

<u>Signs/Marker:</u>				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WELLHEAD	Satisfactory			

Emergency Contact Number: (S/U/V) _____ Corrective Date: _____

Comment: _____

Corrective Action: _____

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

<u>Venting:</u>	
Yes/No	Comment

<u>Flaring:</u>				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

Predrill

Location ID: 413761

Site Preparation:

Lease Road Adeq.: _____ Pads: _____ Soil Stockpile: _____

S/U/V: _____

Corrective Action: _____ Date: _____ CDP Num.: _____

Form 2A COAs:

Group	User	Comment	Date
OGLA	kubeczkod	<p>SITE SPECIFIC COAs:</p> <p>Notify the COGCC 48 hours prior to start of pad construction, rig mobilization, spud, and start of hydraulic stimulation operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p> <p>Surface water samples from Hayes Gulch to the west-southwest (one upgradient and one downgradient from the well pad location), shall be collected prior to injection well operations and every 12 months (until well pad closure) to evaluate</p>	04/25/2013

potential impacts from operations. At a minimum, the surface water samples will be analyzed for the following parameters: major cations/anions (chloride, fluoride, sulfate, sodium); total dissolved solids (TDS); and BTEX/DRO.

Operator must submit an as-built drawing (plan view and cross-sections) of the SWD injection well pad and associated equipment within 30 calendar days of completion of the injection wells.

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface or buried pipelines.

Operator must ensure secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.

The moisture content of any cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, if the drill cuttings are to be left onsite, they must also meet the applicable standards of table 910-1.

If the wells are to be hydraulically stimulated, flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline, storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permitted has been submitted/approved) located on the well pad; or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

Operator will use qualified containment devices for all appropriate chemicals/hazardous materials used onsite during the operation of the injection wells.

All tanks and aboveground vessels containing fluids must have secondary containment structures. All secondary containment structures/areas must be lined. Operator must ensure a minimum of 110 percent secondary containment for the largest structure containing fluids within each bermed area the facility during operations. The construction and lining of the secondary containment structures/areas shall be supervised by a professional engineer or their agent.

Operator shall equip and maintain on all tanks an electronic level monitoring device.

Operator shall install a steel containment ring around tank batteries to provide secondary containment and install a synthetic liner that underlies the entire battery and is keyed into the top of the containment ring.

Approval of this Form 2A does not authorize operator the right to inject. Authorization to inject into the selected Formation(s) requires approval of both the Form 31 and the Form 33.

Before hydraulic stimulation of the each well, operator shall collect a groundwater sample from the Ohio Creek and analyze for total dissolved solids (TDS); submit laboratory analytical results to denise.onyskiw@state.co.us and arthur.koelspell@state.co.us.

OGLA	kubeczkod	PIPELINE COAs: <p>Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service.</p> <p>Operator must implement best management practices to contain any unintentional release of fluids along all portions of the surface pipeline route where temporary pumps and other necessary equipment are located.</p> <p>Operator must routinely inspect the entire length of the surface pipeline to ensure integrity.</p> <p>Operator must ensure 110 percent secondary containment for any potential volume of fluids that may be released from the surface pipeline at all stream, intermittent stream, ditch, and drainage crossings.</p> <p>Operator will utilize, to the extent practical, all existing access and other public roads, and/or existing pipeline right-of-ways, when placing/routing the surface pipelines. This will reduce surface disturbance and fragmentation of wildlife habitat in the area.</p>	04/25/2013
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S/U/V: _____ **Comment:** _____

CA: _____ **Date:** _____

Wildlife BMPs:

BMP Type	Comment
Construction	<p>Construction</p> <ul style="list-style-type: none"> • Schedule necessary construction in stream courses to avoid critical spawning times. • Surface roads to ensure that the anticipated volume of traffic and the weight and speed of vehicles using the road do not cause environmental damage, including generation of fugitive dust and contribution of sediment to downstream areas. • Protect culvert inlets from erosion and sedimentation and install energy dissipation structures at outfalls • Use the minimum right-of-way width and vegetation mats where pipelines cross riparian areas and streams wherever possible • Construct fluid pit fences and nets that are capable of withstanding animal pressure and environmental conditions and that are appropriately sized for the wildlife encountered. • Install impermeable barriers beneath fluid pits to protect groundwater, riparian areas and wetlands. • Salvage topsoil from all road construction and other rights-of-way and re-apply during interim and final reclamation. • Strip and segregate topsoil prior to construction. Appropriately configure topsoil piles and immediately seed to control erosion, prevent weed establishment and maintain soil microbial activity
Interim Reclamation	<p>Production/Reclamation</p> <ul style="list-style-type: none"> • Gate access roads where necessary to minimize/control access to "crucial habitats" • Install automated emergency response systems (e.g., high tank alarms, emergency shut- down systems, etc.). • Implement fugitive dust control program • Avoid direct discharge of pipeline hydrostatic test water to any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river. • Locate above-ground facilities to minimize the visual effect (e.g., low profile equipment, appropriate paint color, vegetation screening in wooded areas, etc.). • Skim and eliminate oil from produced water ponds and fluid pits at a rate sufficient to prevent oiling of birds or other wildlife that could gain access to the pit. • Apply an aggressive, integrated, noxious and invasive weed management plan. Utilize an adaptive management strategy that permits effective responses to monitored findings and reflects local site and geologic conditions • Map the occurrence of existing weed infestations prior to development to effectively monitor and target areas that will likely become issues after development. • Evaluate the utility of soil amendment application or consider importing topsoil to achieve

effective reclamation.

- Use locally adapted seed whenever available and approved by landowner.
- Use appropriately diverse reclamation seed mixes that mirror an appropriate reference area for the site being reclaimed where approved by landowner.
- Conduct seeding in a manner that ensures that seedbed preparation and planting techniques are targeted toward the varied needs of grasses, forbs and shrubs (e.g., seed forbs and shrubs separately from grasses, broadcast big sagebrush but drill grasses, etc.)
- Emphasize bunchgrass over sod-forming grasses in seed mixes in order to provide more effective wildlife cover and to facilitate forb and shrub establishment.
- Seed during appropriate season to increase likelihood of reclamation success
- Do not include aggressive, non-native grasses in reclamation seed mixes
- Choose reference areas as goals for reclamation that have high wildlife value, with attributes such a diverse and productive understory of vegetation, productive and palatable shrubs, and a high prevalence of native species.
- Establish vegetation with total perennial non-invasive plant cover of at least eighty (80) percent of pre-disturbance or reference area levels.
- Establish vegetation with plant diversity of non-invasive species which is at least half that of pre-disturbance or reference area levels. Quantify diversity of vegetation using a metric that considers only species with at least 3 percent relative plant cover.
- Establish permanent and monumented photo points and vegetation measurement plots or transects; monitor at least annually until plant cover, composition, and diversity standards have been met.
- Observe and maintain a performance standard for reclamation success characterized by the establishment of a self-sustaining, vigorous, diverse, locally appropriate plant community on the site, with a density sufficient to control erosion and non-native plant invasion and diversity sufficient to allow for normal plant community development.
- Use early and effective reclamation techniques, including interim reclamation to accelerate return of disturbed areas for use by wildlife
- Remove all unnecessary infrastructure during the production phase.
- Reclaim reserve pits as quickly as practical after drilling and ensure that pit contents do not contaminate soil.
- Remediate hydrocarbon spills on disturbed areas prior to reclamation.
- Complete final reclamation activities so that seeding occurs during the first optimal season following plugging and abandonment of oil and gas wells.
- Perform interim reclamation to final reclamation species composition and establishment standards.
- Perform interim reclamation on all disturbed areas not needed for active support of production operations
- Remove and properly dispose of degraded silt fencing and erosion control materials after their utility has expired
- Remove and properly dispose of pit contents where contamination of surface water, groundwater, or soil by pit contents cannot be effectively prevented
- Apply certified weed free mulch and crimp or tacy to remain in place to reclaim areas for seed preservation and moisture retention
- Control weeds in areas surrounding reclamation areas in order to reduce weed competition
- Educate employees and contractors about weed issues
- Where possible, fence livestock and/or wildlife out of newly reclaimed areas until reclamation standards have been met and plants are capable of sustaining herbivory
- Conduct necessary reclamation and invasive plant monitoring.
- Census and assess the utilization of the reclaimed areas by the target species
- Maintain pre and post development site inspection records and monitor operations for compliance
- Utilize GIS technologies to assess the extent of disturbance and document the reclamation progression and the footprint of disturbances
- Identify native species for which commercial seed sources are not available. Provide support to contractors for developing cultivation and seed production techniques for needed species
- Conduct reclamation field trials to match seed mixes, soil preparation techniques, and planting methods to local conditions.

General Housekeeping	<p>General</p> <ul style="list-style-type: none"> • Treat/control noxious weeds/plants including Tamarisk • Focus BMPs on critical wildlife seclusion and "crucial habitats" • Continue to Support Operation Game Thief • Continue to support CDOW sportsman's programs • Participate in wildlife seminars and conferences (e.g. AFWA) • Focus Ranch and Property Management (Williams' owned/managed properties) on wildlife resources • Identify conservation easement opportunities on Williams-owned/managed properties • Acquire water rights and irrigate key habitat areas • Restrict and/or manage grazing to benefit wildlife • Fence and restrict activities in locations that provide high value habitat • Construct habitat improvement projects as practical • Enforce policies to protect wildlife (e.g., no poaching, no firearms, no dogs on location, no feeding of wildlife, etc.). • Inventory, monitor and remove obsolete, degraded, or hazardous fencing on Williams owned property • Support research to test the effectiveness of specific Best Management Practices
Drilling/Completion Operations	<p>Drilling/Completions</p> <ul style="list-style-type: none"> • Continue application of BMPs to prevent wildlife from entering pits including fencing and netting where appropriate • Limit days/hours operations where practical to minimize disturbance and traffic • Promptly report spills that affect wildlife to the CDOW. • Store and stage emergency spill response equipment at strategic locations so that it is available to expedite effective spill response. • Limit parking to already disturbed areas that have not yet been reclaimed • Screen water suction hoses to exclude fish. • Reduce noise by using effective sound dampening devices or techniques (e.g., hospital-grade mufflers, equipment housing, insulation, installation of sound barriers, earthen berms, vegetative buffers, etc.).
Planning	<p>Planning</p> <ul style="list-style-type: none"> • Conduct wildlife surveys to determine presence of game/non-game species/habitat • Identify and Protect "crucial habitats" • Site access roads, pads and facilities in locations that minimize habitat impacts • Identify private and Federal land seclusion areas where drilling will be voluntarily deferred in critical seasonal habitats • Identify and protect migration corridors • Minimize well pad density to the extent possible • Minimize the number, size and distribution of well pads and locate pads along existing roads where possible. • Cluster well pads in the least environmentally sensitive areas. • Plan pipelines routes ahead of time to avoid field fitting and reduce excessive ROW widths and reclamation. • Adequately size infrastructure and facilities to accommodate both current and future gas production.

S/U/V: _____ **Comment:** _____

CA: _____ **Date:** _____

Stormwater:

Erosion BMPs	Present	Other BMPs	Present
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Inspector Name: LONGWORTH, MIKE

S/U/V: _____

Corrective Action: _____ Date: _____

Comments: Erosion BMPs: _____

Other BMPs: _____

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: _____

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: 412081 Type: WELL API Number: 045-18424 Status: IJ Insp. Status: AC

Underground Injection Control

UIC Violation: _____ Maximum Injection Pressure: _____

UIC Routine

Inj./Tube: Pressure or inches of Hg 1850 Previous Test Pressure _____ MPP _____
(e.g. 30 psig or -30" Hg) Inj Zone: ILES

TC: Pressure or inches of Hg 0 Previous Test Pressure _____ Last MIT: 07/11/2013

Brhd: Pressure or inches of Hg 0 Previous Test Pressure _____ AnnMTReq: _____

Comment: 7" casing 2psi

Method of Injection: PUMP FEED

Test Type: _____ Tbg psi: _____ Csg psi: _____ BH psi: _____

Insp. Status: _____

Comment: _____

Facility ID: 412082 Type: WELL API Number: 045-18425 Status: IJ Insp. Status: SI

Underground Injection Control

UIC Violation: _____

Maximum Injection Pressure: _____

UIC RoutineInj./Tube: Pressure or inches of Hg _____
(e.g. 30 psig or -30" Hg)Previous Test Pressure _____ MPP _____
Inj Zone: WMFK

TC: Pressure or inches of Hg 280 psi

Previous Test Pressure _____ Last MIT: 02/01/2010

Brhd: Pressure or inches of Hg 0

Previous Test Pressure _____ AnnMTReq: _____

Comment: Well shut in.

Method of Injection: _____

Test Type: _____

Tbg psi: _____

Csg psi: _____

BH psi: _____

Insp. Status: _____

Comment: _____

Facility ID: 412083 Type: WELL API Number: 045-18426 Status: SI Insp. Status: SI

Underground Injection Control

UIC Violation: _____

Maximum Injection Pressure: _____

UIC RoutineInj./Tube: Pressure or inches of Hg _____
(e.g. 30 psig or -30" Hg)Previous Test Pressure _____ MPP _____
Inj Zone: ILES

TC: Pressure or inches of Hg _____

Previous Test Pressure _____ Last MIT: 07/11/2013

Brhd: Pressure or inches of Hg _____

Previous Test Pressure _____ AnnMTReq: _____

Comment: _____

Method of Injection: _____

Test Type: Verification of Repairs

Tbg psi: 150

Csg psi: 2986

BH psi: 0

Insp. Status: Pass

Comment: 0min 2986 psi 15min 2845 psi

Workover

Comment: Worker crew running casing and setting packer.

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:

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

Field Parameters:

Sample Location: _____

Inspector Name: LONGWORTH, MIKE

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: RANGELAND

Comment: _____

1003a. Debris removed? Pass CM _____

CA _____ CA Date _____

Waste Material Onsite? Pass CM _____

CA _____ CA Date _____

Unused or unneeded equipment onsite? Fail CM 6 frac tanks

CA Remove unneeded equipment CA Date 11/09/2013

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

CA _____ CA Date _____

Guy line anchors removed? _____ CM _____

CA _____ CA Date _____

Guy line anchors marked? Pass CM _____

CA _____ CA Date _____

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

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? Fail

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

RESTORATION AND REVEGETATION

Cropland

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

Non-Cropland

Top soil replaced _____ Recontoured _____ 80% Revegetation _____

1003 f. Weeds Noxious weeds? _____

Comment: Reclaim and revegetate unused areas. Submit Form 4 Interim Reclamation

Overall Interim Reclamation Fail

Final Reclamation/ Abandoned Location:

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

Final Land Use: RANGELAND

Reminder: _____

Comment: _____

Inspector Name: LONGWORTH, MIKE

Well plugged _____ Pit mouse/rat holes, cellars backfilled _____
Debris removed _____ No disturbance /Location never built _____
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: _____
Corrective Action: _____ Date _____
Overall Final Reclamation _____ Well Release on Active Location ☐ Multi-Well Location ☐

Storm Water:

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Compaction	Pass	Culverts	Pass			
Gravel	Pass	Gravel	Pass			
Berms	Pass	Compaction	Pass			
Ditches	Pass	Ditches	Pass			
Seeding	Fail					

S/U/V: Satisfactory _____ Corrective Date: _____

Comment: _____
CA: _____

Pits: ☐ NO SURFACE INDICATION OF PIT