

Inspector Name: Waldron, Emily

**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

DE ET OE ES

Inspection Date:

06/08/2015

Document Number:

673402180

Overall Inspection:

SATISFACTORY**FIELD INSPECTION FORM**

|                     |             |        |                 |                          |             |
|---------------------|-------------|--------|-----------------|--------------------------|-------------|
| Location Identifier | Facility ID | Loc ID | Inspector Name: | On-Site Inspection       | 2A Doc Num: |
|                     | 437726      | 437712 | Waldron, Emily  | <input type="checkbox"/> |             |

**Operator Information:**OGCC Operator Number: 10396Name of Operator: SWN PRODUCTION COMPANY LLCAddress: PO BOX 12359City: SPRING State: TX Zip: 77391

- ☐ 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                   |
|----------------|--------------|-----------------------|---------------------------|
| Rowell, Cheryl | 713-542-0648 | Cheryl_Rowell@swn.com | Senior Regulatory Analyst |

**Compliance Summary:**QtrQtr: SENE Sec: 26 Twp: 7N Range: 88W

| Insp. Date | Doc Num   | Insp. Type | Insp Status | Satisfactory /Action Required | PA P/F/I | Pas/Fail (P/F) | Violation (Y/N) |
|------------|-----------|------------|-------------|-------------------------------|----------|----------------|-----------------|
| 11/14/2014 | 673401444 | DG         | DG          | SATISFACTORY                  |          |                | No              |
| 09/08/2014 | 668800322 | XX         | XX          | SATISFACTORY                  |          |                | No              |

**Inspector Comment:****Related Facilities:**

| Facility ID | Type | Status | Status Date | Well Class | API Num   | Facility Name     | Insp Status |                                     |
|-------------|------|--------|-------------|------------|-----------|-------------------|-------------|-------------------------------------|
| 437726      | WELL | DG     | 11/06/2014  |            | 107-06263 | North Hayden 1-26 | WK          | <input checked="" type="checkbox"/> |

**Equipment:****Location Inventory**

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

**Location**

| <b>Signs/Marker:</b> |                              |         |                   |         |
|----------------------|------------------------------|---------|-------------------|---------|
| Type                 | Satisfactory/Action Required | Comment | Corrective Action | CA Date |
| WELLHEAD             | SATISFACTORY                 |         |                   |         |

Emergency Contact Number (S/A/V): SATISFACTORY

Corrective Date: \_\_\_\_\_

Inspector Name: Waldron, Emily

Comment:

Corrective Action:

**Spills:**

| Type | Area | Volume | Corrective action | CA Date |
|------|------|--------|-------------------|---------|
|------|------|--------|-------------------|---------|

☐ Multiple Spills and Releases?

**Venting:**

| Yes/No | Comment |
|--------|---------|
|--------|---------|

NO

**Flaring:**

| Type | Satisfactory/Action Required | Comment | Corrective Action | CA Date |
|------|------------------------------|---------|-------------------|---------|
|------|------------------------------|---------|-------------------|---------|

**Predrill**

Location ID: 437726

**Site Preparation:**

Lease Road Adeq.: \_\_\_\_\_ Pads: \_\_\_\_\_ Soil Stockpile: \_\_\_\_\_

**S/A/V:** \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_ CDP Num.: \_\_\_\_\_

**Form 2A COAs:**

| Group | User     | Comment  | Date       |
|-------|----------|--|------------|
| OGLA  | kubeczkd | <p>The moisture content of any drill cuttings in a cuttings trench or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts.</p> <p>If the well is 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.</p> | 02/06/2014 |

|  |          |   |            |
|--|----------|---|------------|
| OGLA   | kubeczkd | <p>Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines or buried permanent pipelines.</p> <p>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.</p> <p>A closed loop system must be implemented during drilling; or, if a drilling pit is constructed, an amended Form 2A must be submitted and a Form 15 submitted if operator plans on using either oil based muds or high chloride/TDS mud. The pit must be lined. All cuttings generated during drilling with oil based muds or high chloride/TDS mud must be kept in the lined drilling pit, or placed either in containers, lined trenches, or on a lined/bermed portion of the well pad; prior to disposition. The moisture content of any drill cuttings in a cuttings 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. All liners associated with drilling mud and cuttings must be disposed of offsite per CDPHE rules and regulations.</p> <p>The location is in an area of moderate to high run-on/run-off potential; therefore standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater run-off.</p> <p>The access road will be constructed and maintained as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.</p> <p>Strategically apply fugitive dust control measures, including enforcing established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>During all construction, drilling, and completion phases at this location, operator shall be monitoring the wildfire potentials daily and have the appropriate additional equipment and measures in place. This may include smoking bans and additional fire fighting equipment. Operator shall consult with the NFS as necessary.</p> <p>Berms or other containment devices shall be constructed to be sufficiently impervious (corrugated steel with poly liner) to contain any spilled or released material around permanent crude oil, condensate, and produced water storage tanks.</p> | 02/06/2014 |
| OGLA   | kubeczkd | <p>Notify the COGCC 48 hours prior to start of pad reconstruction, start of construction of the pit (if different), pit liner installation, 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>Operator shall design and construct the access road utilizing all available soils, geologic, landslide, and hydrogeologic information. Operator shall notify the COGCC and the Routt County LGD 48 hours prior to start of access road and pad construction using Form 42 (the appropriate COGCC individuals will automatically be email notified, Operator will need to notify the Routt County LGD (cbrookshire@co.routt.co.us) for road and pad construction.</p>   | 02/06/2014 |
| <b>S/A/V:</b> _____ <b>Comment:</b> <input type="text"/> |          |   |            |
| <b>CA:</b> <input type="text"/> <b>Date:</b> _____       |          |   |            |

**Wildlife BMPs:**

| BMP Type                               | Comment  |
|--|--|
| Wildlife                               | <p>1. This location is within Elk Winter Concentration area. Conduct oil and gas activities outside the time period from December 1 through April 15.</p> <p>2. This location is within Elk Winter Concentration area. Restrict post-development well site visitations to between the hours of 9:00 a.m. and 4:00 p.m. from December 1 to April 15.</p> <p>3. This location is within designated greater sage-grouse priority habitat and activities should be conducted outside of the period from March 1 to June 30.</p> <p>4. This location is within 1.25 miles of Columbian sharp-tailed grouse leks (Production Area), and activities should be conducted outside of the period from March 15 to July 30.</p> <p>5. Restrict post-development well site visitations to portions of the day between 9:00 a.m. and 4:00 p.m. during the greater sage-grouse and Columbian sharp-tailed grouse leking season, from March 1 to July 30.</p> <p>6. Muffle or otherwise control exhaust noise from pump jacks and compressors so that operational noise will not exceed 49 dB measured at 30 feet from the edge of the well pad.</p> <p>7. Reclaim/restore greater sage-grouse and Columbian sharp-tailed grouse habitats with native grasses and forbs conducive to optimal grouse habitat and other wildlife appropriate to the ecological site. CPW can assist reclamation efforts with recommended seed mixes, if request.</p> <p>8. Design wastewater pits to minimize retention of stagnant surface water.</p> <p>9. Treat waste water pits and any associated pit containing water that provides a medium for breeding mosquitos with Bti (<i>Bacillus thuringiensis</i> v. <i>israelensis</i>) or take other effective action to control mosquito larvae that may spread West Nile Virus to wildlife, especially grouse.</p> <p>10. Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads.</p> <p>11. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1.</p> <p>12. Shell will coordinate with State Land Board and gate (as agreed upon) the well pad access road from Routt County Road 80 to prevent public access.</p> <p>13. Shell will utilize exclusionary (wildlife and livestock) fencing to protect reclaimed areas until vegetation is established.</p> |
| Storm Water/Erosion Control            | <p>Storm Water management plans (SWMP) are in place to comply with both Colorado Department of Public Health and Environment (CDPHE) and Colorado Oil and Gas Conservation Commission (COGCC) storm water discharge permits. The construction layout for this location details Best Management Practices (BMP's) to be installed during the initial construction. Note that BMP's may be removed, altered, or replaced with the changing conditions in the field and the SWMP will be updated accordingly. The BMP's prescribed for the initial construction phase include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• Construct diversion ditch</li> <li>• Sediment Reservoirs</li> <li>• Check dams</li> <li>• Level spreaders</li> <li>• Stabilized construction entrance</li> <li>• Slash</li> <li>• Sediment Traps</li> <li>• Wattles</li> <li>• Terrace</li> <li>• Secondary containment berms</li> <li>• Detention ponds</li> </ul>   |
| Material Handling and Spill Prevention | <p>Spill Prevention Control and Countermeasure Plans (SPCC) are in place to address material releases and to prescribe materials handling BMP's for the facility. "Good Housekeeping" measures will be taken to ensure proper waste disposal.</p>  |

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Community Outreach  
and Notification

SWEPI LP will conduct groundwater monitoring in accordance with COGCC Rule 609 for the  
North Hayden 1-26 well pad.

**S/A/V:** \_\_\_\_\_ **Comment:** \_\_\_\_\_

**CA:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Stormwater:**

**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: 437726 Type: WELL API Number: 107-06263 Status: DG Insp. Status: WK

### Workover

Comment: Workover rig on location swabbing.

### 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: \_\_\_\_\_

Emission Control Burner (ECB): \_\_\_\_\_

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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? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Waste Material Onsite? \_\_\_\_\_ 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 removed? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Guy line anchors marked? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_

1003b. Area no longer in use? \_\_\_\_\_ 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 \_\_\_\_\_

Non-Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ 80% Revegetation \_\_\_\_\_

1003 f. Weeds Noxious weeds? \_\_\_\_\_

Comment: \_\_\_\_\_

Overall Interim Reclamation \_\_\_\_\_

**Final Reclamation/ Abandoned Location:**

Date Final Reclamation Started: \_\_\_\_\_ Date Final Reclamation Completed: \_\_\_\_\_

Final Land Use: RANGELAND

Reminder: \_\_\_\_\_

Comment: \_\_\_\_\_

Well plugged \_\_\_\_\_ Pit mouse/rat holes, cellars backfilled \_\_\_\_\_

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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 |
|------------------|-----------------|-------------------------|-----------------------|---------------|--------------------------|---------|
| Ditches          | Pass            |                         |                       |               |                          |         |
| Compaction       | Pass            |                         |                       |               |                          |         |
| Gravel           | Pass            |                         |                       |               |                          |         |
| Berms            | Pass            |                         |                       |               |                          |         |
| Rip Rap          | Pass            |                         |                       |               |                          |         |
| Check Dams       | Pass            |                         |                       |               |                          |         |

S/A/V: SATISFACTOR \_\_\_\_\_ Corrective Date: \_\_\_\_\_  
Y \_\_\_\_\_

Comment: No apparent soil migration; erosion or soil movement.

CA: \_\_\_\_\_

Pits: ☐ NO SURFACE INDICATION OF PIT