

FORM

2

Rev  
08/13

## State of Colorado

## Oil and Gas Conservation Commission

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

Document Number:

400803417

## APPLICATION FOR PERMIT TO:

☒ Drill
 ☐ Deepen
 ☐ Re-enter
 ☐ Recomplete and Operate

Date Received:

05/06/2015

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER Horizontal/LateralRefilling ☐ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐Sidetrack ☒Well Name: Flanders 7-88Well Number: 1-34Name of Operator: SWN PRODUCTION COMPANY LLCCOGCC Operator Number: 10396Address: PO BOX 12359City: SPRING State: TX Zip: 77391Contact Name: Cheryl RowellPhone: (832)796-7439Fax: (832)796-8817Email: cheryl\_rowell@swn.com

## RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20110201

## WELL LOCATION INFORMATION

QtrQtr: NWSW Sec: 34 Twp: 7N Rng: 88W Meridian: 6Latitude: 40.518292Longitude: -107.254092
 Footage at Surface: 1566 feet FNL/FSL FSL 953 feet FEL/FWL FWL
Field Name: WILDCATField Number: 99999Ground Elevation: 6567County: ROUTT

GPS Data:

Date of Measurement: 10/29/2014 PDOP Reading: 1.6 Instrument Operator's Name: NATHAN FISHERIf well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**Footage at Top of Prod Zone: FNL/FSL 1745 FSL 1578 FWL 2417 FNL 159 FEL FEL
 Sec: 34 Twp: 7N Rng: 88W Sec: 34 Twp: 7N Rng: 88W

## LOCATION SURFACE &amp; MINERALS &amp; RIGHT TO CONSTRUCT

Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian
 The Surface Owner is: ☐ is the mineral owner beneath the location.  
 (check all that apply) ☐ is committed to an Oil and Gas Lease.
☐ has signed the Oil and Gas Lease.☐ is the applicant.The Mineral Owner beneath this Oil and Gas Location is: ☐ Fee ☒ State ☐ Federal ☐ IndianThe Minerals beneath this Oil and Gas Location will be developed by this Well: YesThe right to construct the Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

## LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

NOTE: (PROPOSED BHL, SEC 34 7N 88W, 159' FEL) The State of Colorado owns the minerals to the east of the section line.  
Section 34 7N 88W, N2, SW, E2SE, NESE State Lease #8620  
Section 35 7N 88W, N2, N2SW – State Lease #8621

Total Acres in Described Lease: 1000 Described Mineral Lease is: ☐ Fee ☒ State ☐ Federal ☐ Indian

Federal or State Lease # 8620.5

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 159 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 1677 Feet  
Building Unit: 1677 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 732 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 953 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: ☐ Buffer Zone  
☐ Exception Zone  
☐ Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

## SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 3407 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 1516 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): Otheos State Unit Number: 8620

## SPACING & FORMATIONS COMMENTS

THIS WELL IS WITHIN THE 1ST EXPANSION OF THE OTHEOS STATE UNIT WHICH WAS APPROVED ON OCTOBER 31, 2013.  
See attached Unit Outline Map.  
Section 34 7N 88W, N2, SW, E2SE, NESE State Lease #8620  
Section 35 7N 88W, N2, N2SW – State Lease #8621

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR			

## DRILLING PROGRAM

Proposed Total Measured Depth: 13253 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 3407 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? Yes

Will oil based drilling fluids be used? Yes

BOP Equipment Type: ☒ Annular Preventor ☒ Double Ram ☒ Rotating Head ☐ None

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted?

Reuse Facility ID:  or Document Number:

## CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	30	20	104	0	60	270	60	0
SURF	17+1/2	13+3/8	54.5	0	1200	626	1200	0
1ST	12+1/4	9+5/8	40	0	8400	1394	8400	1000
2ND	8+3/4	5+1/2	20	0	13253	981	13253	8200

☐ Conductor Casing is NOT planned

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- ☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- ☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- ☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318A.a. Exception Location (GWA Windows).
- ☐ Rule 318A.c. Exception Location (GWA Twinning).

## RULE 502.b VARIANCE REQUEST

☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number

## OTHER LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318.c. Exception Location from Rule or Spacing Order Number \_\_\_\_\_
- ☐ Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## OPERATOR COMMENTS AND SUBMITTAL

Comments THIS WELL IS A PLANNED SIDETRACK. The pilot hole, FLANDERS 7-88 1-34 (Form 2, Doc#400804474), will be drilled to 10,000' and logged. A whipstock will be set, the wellbore sidetracked at 8365' and drilled horizontally to 13,253' MD. The horizontal portion of the wellbore will be logged with measured-while-drilling gamma-ray.

The State of Colorado owns the minerals east of this lease.

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: \_\_\_\_\_

Is this application being submitted with an Oil and Gas Location Assessment application? \_\_\_\_\_ Yes

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Cheryl Rowell

Title: Sr. Staff Reg. Analyst Date: 5/6/2015 Email: cheryl\_rowell@swn.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved:  Director of COGCC Date: 11/18/2015

Expiration Date: 11/17/2017

### API NUMBER

05 107 06266 01

## Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

### COA Type

### Description

- 1) Operator shall comply with the most current revision of the Northwest Notification Policy. See attached notice.
- 2) Operator shall provide cement coverage from the intermediate casing shoe (9+5/8" First String) to a minimum of 200' above the surface casing shoe to provide isolation of all Mesaverde Group and Lewis Formation oil, gas, and water-bearing sandstone and coalbed formations that are not otherwise covered by surface casing. Verify intermediate casing cement coverage with a cement bond log.

## **Best Management Practices**

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	Planning	When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.
2	General Housekeeping	Fence the well site after drilling to restrict public and wildlife access. Keep well site location, the road, and the pipeline easement free of noxious weeds, litter and debris. Spray for noxious weeds, and implement dust control, as needed. Southwestern Energy Production Company (SEPCO) will not permit the release or discharge of any toxic or hazardous chemicals or chemicals or wastes on Owners' land. Construct and maintain gates where any roads used by SEPCO cross through fences on the leased premises.
3	Storm Water/Erosion Control	Use water bars and other measures to prevent erosion and non-source pollution. Implement and maintain BMP's to control storm water runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate gas and water gathering lines whenever feasible and mitigate any erosion problems that arise due to the construction of any pipeline.
4	Construction	Remove only the minimum amount of vegetation necessary for the construction of roads and facilities. Conserve topsoil during excavation and reuse as cover on disturbed areas to facilitate regrowth or vegetation. No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment.
5	Drilling/Completion Operations	Open-hole Resistivity log with Gamma Ray Log will be run from the kick-off point into the surface casing. A Cement Bond Log with Gamma Ray will be run on production casing, or on intermediate casing if a production liner is run. The horizontal portion of the wellbore will be logged with a measured-while-drilling gamma-ray log. The Form 5, Completion Report, will list all logs run and have those logs attached.
6	Interim Reclamation	Utilize only such area around each producing well as is reasonably necessary. Restore the remainder of the well site location to its original condition within a reasonable time after the completion of operations. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner.
7	Final Reclamation	All surface restoration shall be accomplished to the satisfaction of Owner. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner. Final reclamation shall be completed to the reasonable satisfaction of the owner as soon as practical after installation (weather permitting) and in accordance with regulatory agency standards.

Total: 7 comment(s)

## **Applicable Policies and Notices to Operators**

Policy
NW Colorado Notification Policy. <a href="http://cogcc.state.co.us/documents/reg/Policies/nw_notification_procedures.pdf">http://cogcc.state.co.us/documents/reg/Policies/nw_notification_procedures.pdf</a>
Notice Concerning Operating Requirements for Wildlife Protection. <a href="http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf">http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf</a>

## **Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
2168042	SURFACE AGRMT/SURETY
2168043	WELL LOCATION PLAT
2168044	CORRESPONDENCE
2168047	UNIT CONFIGURATION MAP
21076991	COGCC's RESPONSE TO LGD AND SURFACE OWNER COMMENTS
400803417	FORM 2 SUBMITTED
400832162	MINERAL LEASE MAP
400832313	DIRECTIONAL DATA
400832314	DEVIATED DRILLING PLAN

Total Attach: 9 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Attached unit configuration map with operator approval. Added state lease number to Spacing and Unit information section as per operator. Corrected distance to nearest wellbores in same formation from 5280' to 3407'. Final review complete.	11/18/2015 9:17:29 AM
OGLA	COGCC and operator reviewed and provided responses to LGD and Surface Owner Comments on 11-16-15, this has been attached to Form 2A#400801433 and Form 2#400803417.	11/17/2015 6:15:11 PM
Permit	Attached new well location plat; SUA; and correspondance from operator requesting changes to Lat/Long; footage at surf; ground elevation; right to construct; and cultural distances. See Correspondence attachment.	11/5/2015 7:45:47 AM
Permit	Requested status of progress from operator.	11/4/2015 7:38:45 AM
Permit	On hold as per operator.	9/3/2015 11:19:00 AM
Public	<p>Please review and consider the following comments of Flanders Ranch, the fee surface owner of the land to be impacted by SWN's development proposed in the Form 2A Oil and Gas Assessment.</p> <p>Comment #1:SWN's Form 2A Oil and Gas Assessment contains several errors that should be addressed and corrected. First, on Page 3 of 7 on Form 2A, SWN has indicated that the "Current Land Use" is "Non-Crop Land:Rangeland."That statement is not accurate.The "Current Land Use" is "Crop Land."The surface is currently used as both "Improved Pasture" and "Hay Meadow" and produces approximately 1.5 tons of alfalfa/acre per year.SWN's proposed operations will impact roughly 9 acres of cultivated alfalfa field, resulting in approximately \$3,780 in lost alfalfa production per year (9 acres x 1.5 tons of alfalfa/acre X \$280 per ton = \$3,780).These impacts should be properly documented and considered in SWN's Form 2A.</p> <p>Likewise, on Page 3 of 7 on Form 2A, SWN has improperly indicated that the "Future Land Use" is "Non-Crop Land:Rangeland."That statement is not accurate.The "Future Land Use" is "Crop Land," both "Improved Pasture" and "Hay Meadow."Alfalfa production will be resumed on the surface after SWN completes reclamation.In addition, the "Future Land Use" should also be recognized as conservation easement, as the surface owner is currently negotiating a conservation easement for the surface.These changes should be properly documented and considered in SWN's Form 2A.</p> <p>Finally, on Page 5 of 7 on Form 2A, SWN indicates that the "plant communities that exist in the disturbed area" include only "Native Grassland."That statement is not accurate.The "plant communities that exist in the disturbed area" also include "Shrub Land," including "Sage," and other important habitat for grouse.These changes should be properly documents and considered in SWN's Form 2A.</p> <p>Comment #2:SWN has not consulted in good faith with the surface owner, Flanders</p>	6/10/2015 3:04:02 PM

Ranch, in locating roads, production facilities, and well sites, or other oil and gas operations. Instead, SWN has used bad faith tactics to confuse and burden the surface owner. For example, SWN has provided a series of proposed surface use agreements to the surface owner, spelling out terms and conditions of SWN's use. Each time such an agreement has been provided, the surface owner has in good faith spent time and money to review and consider the agreement and to provide constructive comments on the agreement to promote SWN's development, while protecting the surface owner's crops and wildlife in the area, among other interests. SWN has never considered such comments, and instead, has rejected those comments outright and responded with more impactful plans for surface development and repeated new proposed surface use agreements. SWN's "take it or leave it" approach, and its unwillingness to consider and/or minimize impacts to the surface, have not been constructive nor consistent with the consultation and meeting procedures outlined by COGCC rules.

Because of the lack of good faith consultation to date by SWN, the surface owner does not waive any of its rights to consultation and requests that the COGCC compel consultation concerning preferred locations for wells and associated production facilities, the preferred timing of oil and gas operations, and mitigation measures or Best Management Practices to be used during Oil and Gas Operations.

Comment #3: In addition, the surface owner requests that the COGCC, Local Government Designee, Colorado Parks and Wildlife, and Colorado Department of Public Health and Environment, consult with the surface owner and SWN to the maximum extent possible under COGCC rules. In particular, and because SWN's proposed development is located in sensitive wildlife habitat area, the surface owner requests that conditions of approval be placed on SWN's development to minimize adverse impacts to wildlife resources.

SWN's development is proposed in an important elk and grouse production area. The area is also important winter game range for elk, deer and antelope, and is known corridor for game migration to and from the Yampa River valley. In addition, numerous other species inhabit the area. The potential impacts of SWN's development on wildlife resources are likely to be significant and are anticipated to drastically and adversely impact hunting at Flanders Ranch as well as the ability for Flanders Ranch to seek a conservation easement on the property to benefit wildlife resources. Conditions of approval should place timing restrictions on development to avoid impacts to hunting seasons, game migrations, winter game range, and elk and grouse production, among other considerations. In addition, SWN should adhere to COGCC operating requirements in sensitive wildlife habitat, and be required to minimize access, traffic, noise, and other disturbances on the surface to reduce impacts to wildlife resources. The surface owner seeks review and the ability to consent of proposed conditions of approval and operating requirements.

Comment #4: The surface owner also requests that the COGCC place the following conditions of approval on SWN's development to minimize impacts to the surface as a result of SWN's operations:

- Require orientation of the proposed surface well site and access road to minimize impacts to the cultivated field, including the surface owner's ability to plow the field. The current orientation reduces the number of plow-able acres of the cultivated field. Likewise, the access road could be oriented to avoid impacts to the cultivated field.
- Minimize the size of the surface well site and access road to avoid disturbance to the cultivated field and important elk and grouse habitat. SWN's development is over-sized compared to what is necessary to achieve drilling operations.
- Require minimization of noise impacts by requiring installation of electric motors; muffling, locating or orienting motors or compressors to reduce noise; installing insulated buildings or sound barriers to reduce noise; and/or other noise-reduction techniques. Likewise, access to the well site should be minimized to reduce noise and disturbance of wildlife in the area.

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|--|---|--|
|  | <ul style="list-style-type: none"><li>•Minimize dust impacts by watering roads as necessary to control dust during operations.</li><li>•Avoid and/or limit drilling, completion and other operations during fall hunting seasons, winter game range usage, and other seasonal time periods where wildlife is sensitive to SWN's operations.</li></ul> |  |
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LGD	<p data-bbox="264 86 456 113">LGD Comments</p> <p data-bbox="264 144 722 231">SWN Production Co Flanders 7-88 1-34H Doc #400801433 2A and 400803417 2</p> <p data-bbox="264 262 1198 321">Routt County has a permitting process for all oil/gas operations. The operator is aware that an application must be submitted to Routt County.</p> <p data-bbox="264 352 1234 411">Routt County has a review process for all county roads used for oil/gas operations. The operator is working with Routt County to complete this process.</p> <p data-bbox="264 443 1203 529">Routt County requests information from the COGCC after drilling operations are complete for the located of aquifers and showing that casing was completed per minimum requirements of the COGCC regulations to protect all aquifers.</p> <p data-bbox="264 560 1192 646">The site is located approximately 2.4 miles north of the Yampa Valley Regional Airport. The operator is required to file with the FAA an evaluation and receive approval for drilling operations.</p> <p data-bbox="264 678 1255 795">There is a drainage east of the proposed well pad and access road which drains into the Yampa River located approximately .44 mi to the south. The access roads and the well pad must have a comprehensive BMP plan and continually monitored for protection of these water sources from erosion and contaminants.</p> <p data-bbox="264 827 1242 970">Continued best management practices should be used to test or monitor air quality. The COGCC should work with the CDPHE to develop monitoring system requirements and schedules for all operators. The newest technology should be used to prohibit emissions from tanks, equipment and flares on the onset of production.</p> <p data-bbox="264 1001 1255 1383">There are mapped wildlife concerns for Columbian Sharp-tailed Grouse and Greater Sage Grouse Production areas; Mule Deer winter range and Elk Severe winter range. All wildlife restrictions should be adhered to and drilling should not occur March 15- July 30 for CSG with restricted well site visitation to portions of the day between 9 a.m. – 4 p.m. and drilling should not occur March 1 – June 30 for GSG with the same day time hour restrictions after drilling is completed. Drilling should not occur Dec 1 – April 15 due to elk winter concerns unless the DPW determines that elk will not be affected. If elk or deer are in the area during winter restrictions post drilling operations, restricted visitation hours of 10 – 3 a.m. shall be met. Noise mitigation should be strictly adhered to and there be no visible flare. This site is within mapped area for a Bald Eagle nest site. The operator shall consult with the CPW to determine if surface occupancy or drilling operations during wildlife restrictions can be conducted.</p> <p data-bbox="264 1415 1255 1623">Farming operations are adjacent to the access and well pad area. The operator must work with the land owner to mitigate any Agriculture concerns. Interim reclamation should be completed within the COGCC requirements. Dust mitigation should be closely monitored to avoid destruction of crops; this includes construction of the access road and well pad, drilling/workover operations and daily monitoring of the site. All disturbed areas including the access road should be monitored for weeds and control measures completed to eliminate weeds through the life of the project.</p> <p data-bbox="264 1654 1235 1797">Hunting operations are conducted on this property and are a source of income to the surface owner. The operator should work with the owner to establish a construction and development plan for the access and well pad and for drilling operations. Daily monitoring hours should also be determined to avoid hunters and hunting operations.</p> <p data-bbox="264 1829 1227 1976">During the site visit it was discussed that a Surface Use Agreement has not been completed. The owner expressed frustration with the operator in development of a plan that is designed to preserve or mitigate agriculture and hunting operations. Options were discussed and SWN employees in attendance noted the concerns. A SUA should be developed before the COGCC approves this well site.</p>	<p data-bbox="1317 86 1468 140">6/9/2015 10:36:48 AM</p>
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Engineer	Offset Well Evaluation: There are no existing offset oil and gas wells within 1,500 feet of this wellbore.	5/18/2015 11:39:55 AM
Engineer	Offset water well check: COGCC evaluated offset water wells within one mile of this proposed well's surface hole location. All permitted water wells within the search radius show zero for reported depths. Depths to formation tops in offset oil and gas wells, locally-available geophysical logs, and hydrogeologic information was reviewed to evaluate the adequacy of the operator's proposed surface casing setting depth.	5/18/2015 11:39:39 AM
Engineer	The Lewis Formation outcrops at surface at this location. The underlying Mesaverde Group is considered a potential freshwater resource in the Sand Wash Basin (CGS Ground Water Atlas of Colorado, 2003). The proposed surface casing setting depth of 1200' will not cover the entire Mesaverde Group, based on log tops in offset wells. COGCC concurs with operator's plan to lap the intermediate casing cement into the surface casing. Condition of Approval #2 specifies minimum cement coverage requirements for the intermediate casing.	5/18/2015 11:39:19 AM
Permit	Added mineral lease description and adjusted total acres in lease from 600 to 1000 as per opr. Corrected well location from NWSW to SWNW as per plats and notified opr. Removed "H" from well name as per opr. Ready to pass pending 2A approval and LGD comment period.	5/14/2015 1:49:00 PM
Permit	Surface Restoration Bond on file with SLB; per Tim Kelly they are okay with this location.	5/14/2015 11:21:25 AM
Permit	Extended LGD and public comment period to 6/10/2015 at the request of the Routt County LGD.	5/13/2015 11:47:08 AM
Permit	Emailed Tim Kelly at SLB for verification of Surface Restoration Bond	5/13/2015 11:22:37 AM
Permit	Corrected BHL from 1516 FSL to 2417 FNL and 159 FEL, as per well location plat and notified opr. Lease map and opr comments shows some of section 35 may be included in State lease. Checking with opr. Added 2A doc to related forms tab.	5/13/2015 9:55:41 AM
Permit	Confirmed with operator and coorrected SHL footages to reflect well plat.  Passed Completeness	5/8/2015 10:10:50 AM

Total: 16 comment(s)