



July 31, 2017

City of Longmont  
385 Kimbark Street  
Longmont, Colorado 80501

Attn: Mr. Jason Elkins  
P: (303) 651-8310  
E: Jason.Elkins@longmontcolorado.gov

**Re: Rider #1 Well Site Background Evaluation  
Longmont, Colorado  
Terracon Project No. 22177021**

Dear Mr. Elkins:

Terracon Consultants, Inc. (Terracon) has prepared the following Background Evaluation for the above referenced site.

## **1.0 RESEARCH FINDINGS**

The Rider #1 well (API Number 05-013-06096-00) was drilled and completed in June 1982 under COGCC permit number 811983, issued on March 10, 1982, for a new natural gas well. The well was completed to approximately 7,265 feet below grade surface (bgs). The Operator of record on the well completion report is Calvin Petroleum Corporation of Denver, Colorado.

On July 8, 2010 an Application for Permit to recomplete and operate the Rider #1 well was submitted to COGCC listing Top Operating Company of Denver, Colorado as the operator of the well. COGCC records also indicate that an earthen pit (ID#428253) was used to contain produced water from production activities. This pit was replaced with a vault and the pit was reportedly removed and closed in 1997. It should be noted that COGCC records have the pit on file named as "Ryder Trust #1". The pit is related to the "Rider #1" Wellsite and was located about 20-feet west of the wellhead. Produced water stored in the vault was then removed and transported off site for disposal via an underground injection well. COGCC GIS data indicates that the former pit was located adjacent to the well head and north of the tank battery and processing equipment on location. There is also record of a COGCC inspection reports noting a separator and skimmer located in the immediate vicinity of the wellhead location.

A Well Abandonment Report was submitted to COGCC on August 29, 2016. Final abandonment activities were initiated on August 4, 2016. The well abandonment report also indicates that the flowline/pipeline associated with the well was abandoned per COGCC Rule 1103. A cast iron



## Rider #1 Well Site Background Evaluation

Rider #1 ■ Longmont, Colorado

July 31, 2017 ■ Terracon Project No. 22177021



bridge plug (CIBP) with a cement cap was placed above perforations in the well casing. This cap was intended to isolate the perforations and prevent flow up the well from this area of the formation. Cement plugs were placed above the surface casing shoe and near the surface, to prevent any fluids moving to the surface. The production casing was cut and pulled from the well; approximately 3,541 feet of 4 ½-inch casing was removed from the wellbore.

During June 2017, the COGCC performed a Field Inspection/Reclamation Inspection to document the status of well abandonment activities and final reclamation of the Rider #1 location. This inspection report indicates that final reclamation activities have not been satisfactorily completed as of June 2017 and that additional work is necessary. This inspection report establishes a deadline of November 1, 2017 for the completion of final reclamation activities.

The land use of the well site during PA activities was agricultural. The current land use of the well site remains agricultural but is bordered by a residential neighborhood approximately 500 to the west and the Trail Ridge Middle School immediately to the south. Public utilities for the adjacent residences were installed within Harlequin Drive and enter the residences near the east side of the homes.

The closest registered well (MH-42040 – TOP Operating) is approximately 430 feet northeast of the Rider #1 wellhead location. Well MH-257334, registered to Saint Vrain Valley School District, is approximately 830 feet southeast of the wellhead, and is approximately 25-feet bgs in depth.

The Rider #1 O&G wellsite is currently part of the City of Longmont's Annual Groundwater Quality Monitoring Program implemented by Terracon. There are currently five monitoring wells sampled for groundwater quality constituents at the site. Monitoring wells RD1-MW02, RD1-MW-4, and RD1-MW05 have historical and current PA reported values of BTEX and methane constituents.

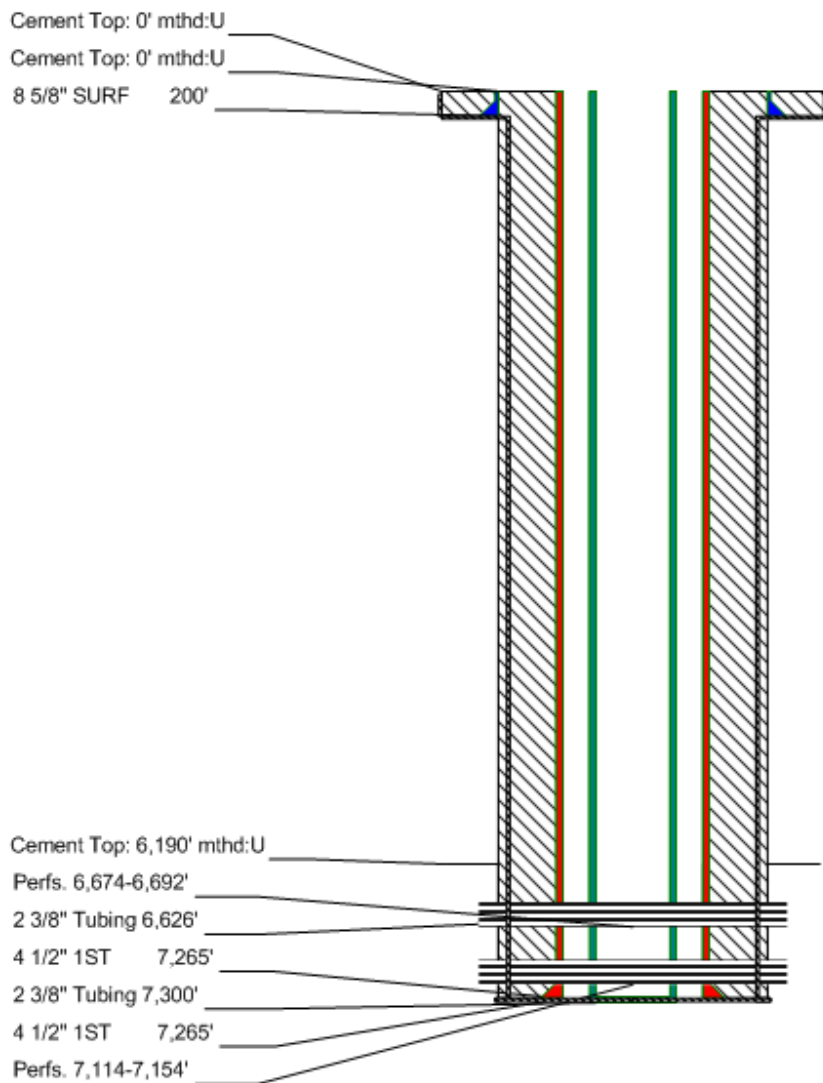
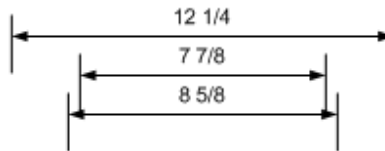
**FIGURE(S)**

### Well Completion Diagram

<b>API Well No:</b> 05-013-06096-00-					
<b>Owner:</b>	TOP OPERATING COMPANY			<b>Well Name:</b>	RIDER
<b>County:</b>	BOULDER	<b>Field:</b>	WATTENBERG	<b>Pool:</b>	
<b>Coordinates: X</b>	990 FEL	<b>; Y</b>	1650 FSL	<b>Sec:</b>	36 <b>Twp:</b> 3N <b>Rng:</b> 69W

Note: Changes to the drawing do not effect the database

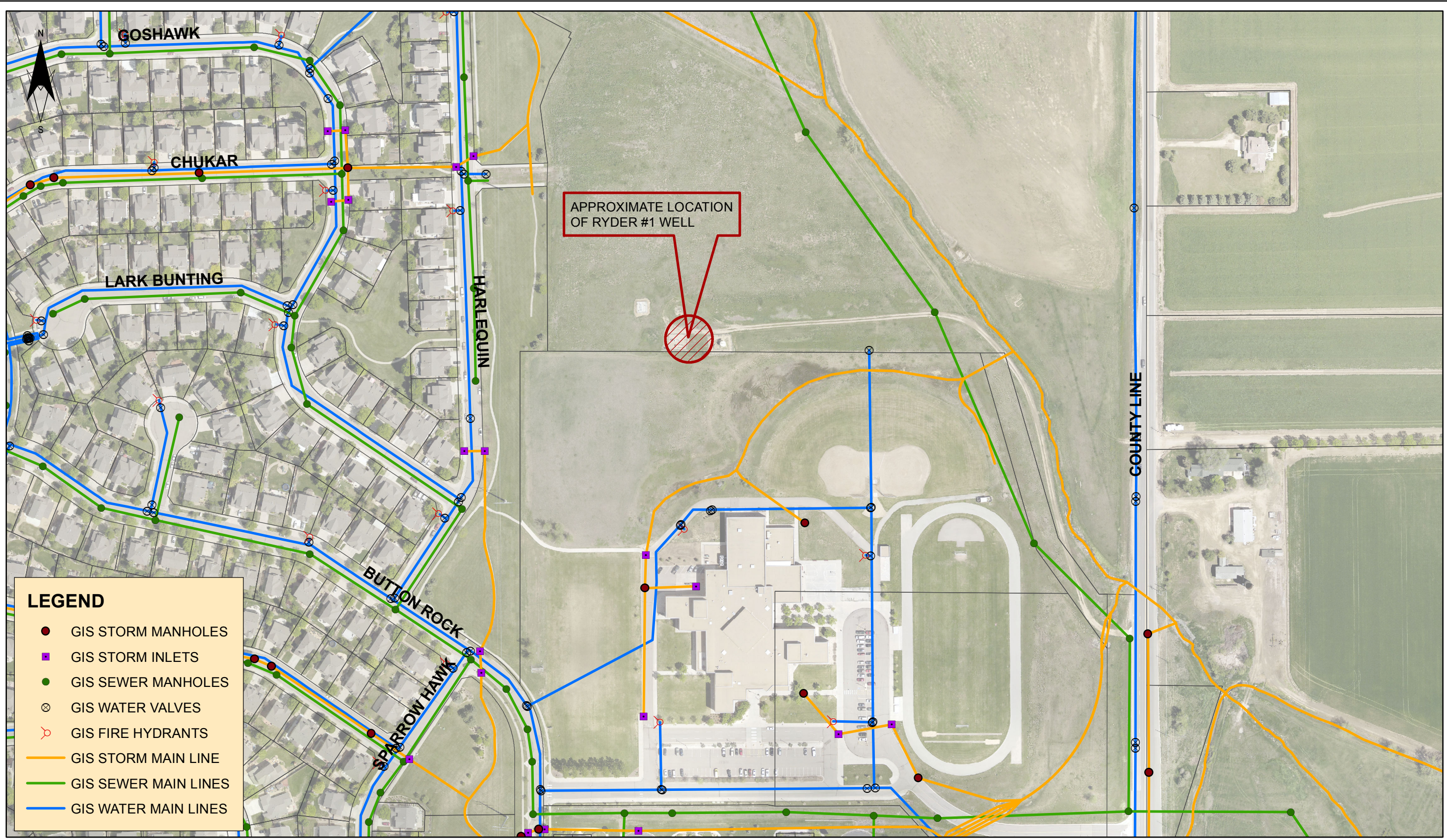
#### Bore Diameters (in.)



Total Vertical Depth 10,000'

Rider #1





APPROXIMATE LOCATION OF RYDER #1 WELL

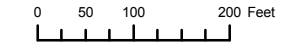
**LEGEND**

- GIS STORM MANHOLES
- GIS STORM INLETS
- GIS SEWER MANHOLES
- ⊗ GIS WATER VALVES
- ⊗ GIS FIRE HYDRANTS
- GIS STORM MAIN LINE
- GIS SEWER MAIN LINES
- GIS WATER MAIN LINES

Path: I:\Projects\PW0545 Oil & Gas\054500\_2017\PA Wells\Ryder No 1 Well\Utility map at Ryder No1 Well.mxd

Print Date: 7/24/2017

File Name: Utility map at Ryder No1 Well  
 11" x 17" Sheet Horiz. Scale: 1" = 200'  
 22" x 34" Sheet Horiz. Scale:



Revisions		
Date:	Comments:	Init:



**CITY of LONGMONT**

385 Kimbark Street  
 Longmont, Co. 80501  
 Phone: 303-651-6304 FAX: 303-651-8352

**PUBLIC WORKS & NATURAL RESOURCES DEPT.**

No Revisions:
Revised:
Void:

**EXISTING WET UTILITY MAP  
 MAYEDA NO. 1 WELL**

Designer:	
Detailer:	
Subset:	

Subset Sheet: Page of

Project No. / Year
<b>PW0545</b>
<b>2017</b>
Sheet Number:

# TOP Operating

WELLNAME: Rider #1

FIELD: Wattenberg

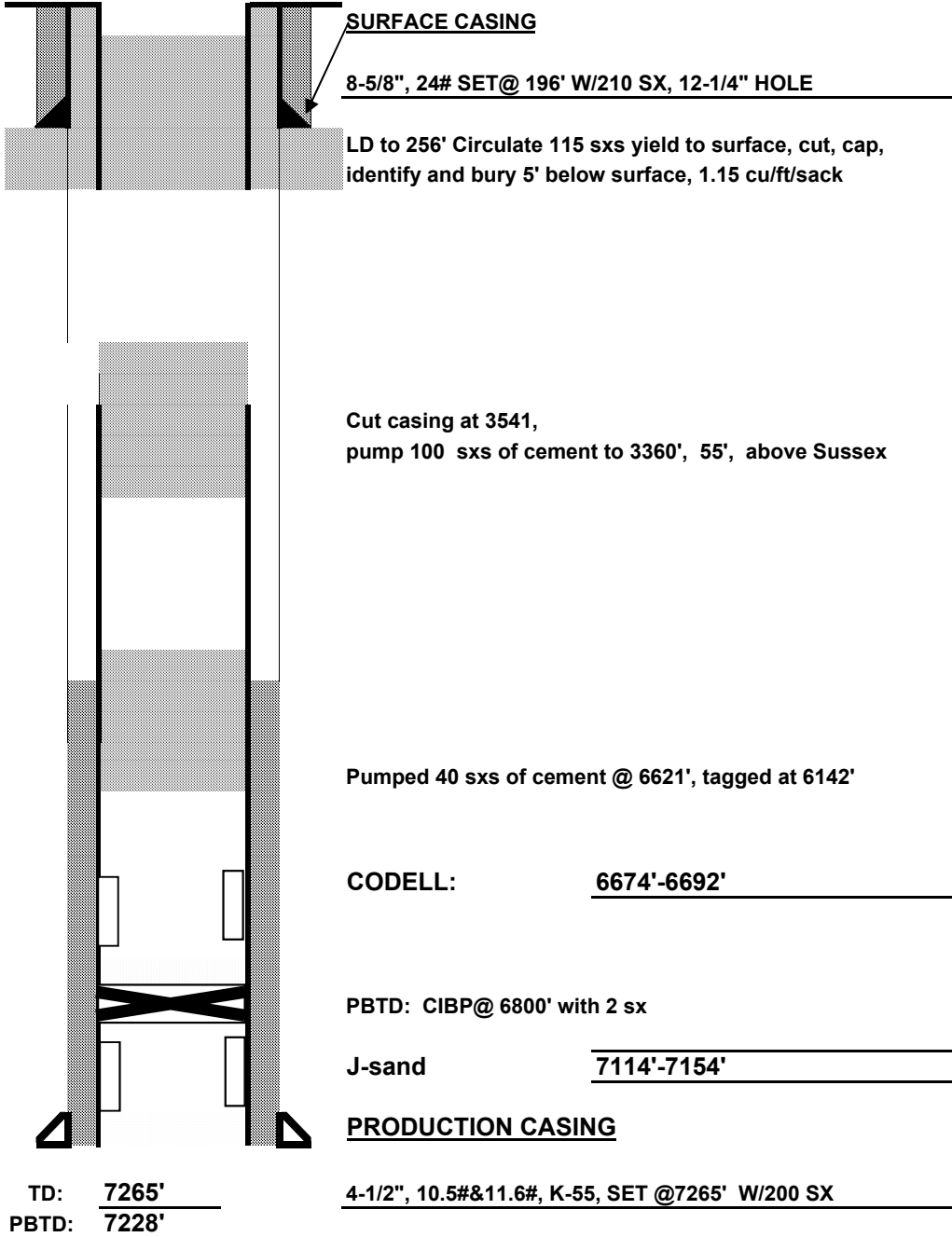
LOCATION: NESE Sec 36 3N 69W

COUNTY: Boulder

KB: 4982'

STATE: COLORADO

GL: 4972'



## SUPPORTING DOCUMENTATION



# COGIS - WELL Information

Scout Card

[Related](#)  
 [Insp.](#)

[MIT](#)

[GIS](#)

[Doc](#)

[COA](#)

[Wellbore](#)

[Orders](#)

## Surface Location Data for API # 05-013-06096

Status: PA 8/4/2016

**Well Name/No:** [RIDER #1](#) (click well name for production)  
**Operator:** TOP OPERATING COMPANY FDDB MURRAY J HERRING LTD - 39560  
**Status Date:** 8/4/2016 **Federal or State Lease #:**  
**FacilityID:** **206601** **LocationID:** **321290**  
**County:** BOULDER #013 **Location:** NESE 36 3N69W 6 PM  
**Field:** WATTENBERG - #90750 **Elevation:** 4,972 ft.  
**Planned Location** 1650 FSL 990 FEL **Lat/Long:** 40.178886/-105.058699 **Lat/Long Source:** Field Measured  
**As Drilled Location** Footages Not Available **Lat/Long:** 40.1791/-105.058699 **Lat/Long Source:** Field Measured

## Wellbore Data for Sidetrack #00

Status: PA 8/4/2016

**Spud Date:** 1/29/1982 **Spud Date is:** ACTUAL

### Wellbore Permit

**Permit #:** **Expiration Date:** 8/9/2012 11:40:51 AM  
**Prop Depth/Form:** 7265 **Surface Mineral Owner Same:** Y  
**Mineral Owner:** FEE **Surface Owner:** FEE  
**Unit:** **Unit Number:**  
**Formation and Spacing:** Code: JSND , Formation: J SAND , Order: , Unit Acreage: 160, Drill Unit: SE/4  
**Formation and Spacing:** Code: NB-CD , Formation: NIOBRARA-CODELL , Order: 407-66 , Unit Acreage: 160, Drill Unit: SE/4  
**Casing:** String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: , Depth: 200, Weight: 24  
**Cement:** Sacks: 200, Top: 0, Bottom: 200, Method Grade:  
**Casing:** String Type: 1ST , Hole Size: 8.625, Size: 4.5, Top: , Depth: 7265, Weight: 10.5  
**Cement:** Sacks: 200, Top: 0, Bottom: 7265, Method Grade:

### Wellbore Completed

**Completion Date:** 2/11/1982  
**Measured TD:** 7266 **Measured PB depth:** 7266  
**True Vertical TD:** **True Vertical PB depth:**  
**Log Types:** IES, CDN, CBL. LOGS RUN IN 1982. NO DIGITAL LOGS AVAILABLE. ALL HARDCOPY LOGS SUBMITTED TO COGCC.  
**Casing:** String Type: SURF , Hole Size: 12.25, Size: 8.625, Top: 0, Depth: 200, Weight: 24  
**Cement:** Sacks: 210, Top: 0, Bottom: 200, Method Grade: VISU  
**Casing:** String Type: 1ST , Hole Size: 7.875, Size: 4.5, Top: 0, Depth: 7265, Weight: 10.5  
**Cement:** Sacks: 200, Top: 6190, Bottom: 7265, Method Grade: CBL  
**Casing:** String Type: 1ST , Hole Size: 8.625, Size: 4.5, Top: 0, Depth: 7265, Weight:  
**Cement:** Sacks: 0, Top: 0, Bottom: , Method Grade:

Formation	Log Top	Log Bottom	Cored	DSTs
SUSSEX	3415	3515		
SHANNON	3816			
NIOBRARA	6464	6649		
FORT HAYS	6649	6675		
CODELL	6672	6690		
J SAND	7138	7154		

## Completed information for formation CODL

Status: AB 8/4/2016

**1st Production Date:** 8/11/2010 **Choke Size:**  
**Status Date:** 8/4/2016 **Open Hole Completion:**  
**Commingled:** Y **Production Method:**  
**Formation Name:** CODELL **Status:** AB

### Formation Treatment

**Treatment Date:** 8/11/2010  
**Treatment summary:** FRAC W/252,089 # 20/40 WHITE SD. 29,654 SUPER LC 20/40 SD. & 3,207 BBLS. WTR.  
**Tubing Size:** 2.375 **Tubing Setting Depth:** 6626  
**Tubing Packer Depth:** **Tubing Multiple Packer:**  
**Open Hole Top:** **Open Hole Bottom:**

## Initial Test Data:

Test Date:	9/11/2010	Test Method:	FLOWING
Hours Tested:	24	Gas Type:	WET
Gas Disposal:	SOLD		

Test Type	Measure
BBLS_H2O	17
BBLS_OIL	47
BTU_GAS	1230
CALC_BBLS_H2O	68
CALC_BBLS_OIL	282
CALC_MCF_GAS	288
CASING_PRESS	1900
GRAVITY_OIL	47
MCF_GAS	48
TUBING_PRESS	1400

## Perforation Data:

Interval Bottom:	6692	Interval Top:	6674
# of Holes:	72	Hole Size:	0.38

## Completed information for formation JSND

Status: AB 8/4/2016

1st Production Date:	7/25/1982	Choke Size:	
Status Date:	8/4/2016	Open Hole Completion:	
Commingled:	N	Production Method:	
Formation Name:	J SAND	Status:	AB

## Formation Treatment

Treatment Date:	7/8/1982		
Treatment summary: PUMPED 408,000 # 20/40 SABD UB 160,300 GALS OF WATER IR 30 BPM @ 2500 PSI ISDP 2300 PSI.			
Tubing Size:	2.375	Tubing Setting Depth:	7300
Tubing Packer Depth:		Tubing Multiple Packer:	
Open Hole Top:		Open Hole Bottom:	

## Initial Test Data:

Test Date:	7/26/1982	Test Method:	FLOWING
Hours Tested:	4	Gas Type:	DRY
Gas Disposal:	SOLD		

Test Type	Measure
BTU_GAS	1160
CALC_MCF_GAS	1500
CASING_PRESS	1900
MCF_GAS	250
TUBING_PRESS	1825

## Perforation Data:

Interval Bottom:	7154	Interval Top:	7114
# of Holes:	58	Hole Size:	0.38

FORM  
2  
Rev  
12/05

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

APPLICATION FOR PERMIT TO:

1.  Drill,  Deepen,  Re-enter,  **Recomplete and Operate**

2. TYPE OF WELL

OIL  GAS  COALBED  OTHER \_\_\_\_\_  
SINGLE ZONE  MULTIPLE ZONE  COMMINGLE ZONE

Refilling   
Sidetrack

Document Number:  
2582953  
Plugging Bond Surety  
19860025

3. Name of Operator: TOP OPERATING COMPANY 4. COGCC Operator Number: 39560

5. Address: 10881 ASBURY AVE STE 230  
City: LAKEWOOD State: CO Zip: 80227

6. Contact Name: MURRAY J. HERRING Phone: (303)727-9915 Fax: (303)727-9925  
Email: TOPOPRTNG@AOL.COM

7. Well Name: RIDER Well Number: 1

8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 7265

WELL LOCATION INFORMATION

10. QtrQtr: NESE Sec: 36 Twp: 3N Rng: 69W Meridian: 6  
Latitude: 40.178886 Longitude: -105.058699

Footage at Surface: 1650 FNL/FSL FSL 990 FEL/FWL FEL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4972 13. County: BOULDER

14. GPS Data:

Date of Measurement: 07/05/2010 PDOP Reading: 2.4 Instrument Operator's Name: R.K. HERRING

15. If well is  Directional  Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_ Bottom Hole: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_

Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_ Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_

16. Is location in a high density area? (Rule 603b)?  Yes  No

17. Distance to the nearest building, public road, above ground utility or railroad: 990 ft

18. Distance to nearest property line: 990 ft 19. Distance to nearest well permitted/completed in the same formation: 5280 ft

20. LEASE, SPACING AND POOLING INFORMATION

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
J SAND	JSND		160	SE/4
NIOBRARA-CODELL	NB-CD	407-66	160	SE/4

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: \_\_\_\_\_

22. Surface Ownership:  Fee  State  Federal  Indian

23. Is the Surface Owner also the Mineral Owner?  Yes  No Surface Surety ID#: \_\_\_\_\_

23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease?  Yes  No

23b. If 23 is No  Surface Owners Agreement Attached or  \$25,000 Blanket Surface Bon  \$2,000 Surface Bond  \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):  
SE/4 SEC. 36 T3N R69W 6TH PM

25. Distance to Nearest Mineral Lease Line: 990 ft 26. Total Acres in Lease: 200

**DRILLING PLANS AND PROCEDURES**

27. Is H2S anticipated?  Yes  No If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling?  Yes  No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling?  Yes  No

30. If questions 27 or 28 are yes, is this location in a sensitive area (Rule 903)?  Yes  No **If 28, 29, or 30 are "Yes" a pit permit may be required.**

31. Mud disposal:  Offsite  Onsite

Method:  Land Farming  Land Spreading  Disposal Facility Other: \_\_\_\_\_

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
SURF	12+1/4	8+5/8	24	200	200	200	0
1ST	8+5/8	4+1/2	10.5	7,265	200	7,265	0

32. BOP Equipment Type:  Annular Preventer  Double Ram  Rotating Head  None

33. Comments WELL IS COMPLETED IN J-SAND. WILL COMPLETE IN CODELL. TOP OF CEMENT WILL BE FOUND W/CBL. CEMENT WILL BE 200' ABOVE NIOBRARA.

34. Location ID: \_\_\_\_\_

35. Is this application in a Comprehensive Drilling Plan ?  Yes  No

36. Is this application part of submitted Oil and Gas Location Assessment ?  Yes  No

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

Signed: \_\_\_\_\_ Print Name: MURRAY J. HERRING

Title: VICE PRESIDENT Date: 7/7/2010 Email: TOPOPRPNG@AOL.COM

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: David S. Neslin Director of COGCC Date: 8/10/2010

<b>API NUMBER</b>
05 013 06096 00

Permit Number: \_\_\_\_\_ Expiration Date: 8/9/2012

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_

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.

Prior to recomple, operator must provide cement 200' above Niobrara (minimum cement top of 6170') and 400' into the surface casing. Verify remedial cement coverage with cement bond log to surface.

### Attachment Check List

Att Doc Num	Name	Doc Description
2582953	APD ORIGINAL	LF@2503468 2582953

Total Attach: 1 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	PERMITTING PASSED 8-5-10;  Per Murray Herring, well is straight hole, removed directional footages of the productive interval from application. Because application is a recomple, changed 22b from "SUA is attached" to "N/A". PVG 8-5-10	8/5/2010 2:14:51 PM

Total: 1 comment(s)

Error: Subreport could not be shown.

**FORM**  
**5**  
Rev  
02/08

**State of Colorado**  
**Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
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Document Number:  
2286038

Date Received:  
11/18/2011

**DRILLING COMPLETION REPORT**

This form is to be submitted within 30 days of the setting of production casing, the plugging of a dry hole, the deepening or sidetracking of a well, or any time the wellbore configuration is changed. If the well is deepened or sidetracked a new Form 5 is required. If an attempt has been made to complete/produce a well, then the operator shall submit Form 5A (Completed Interval Report.) If the well has been plugged, a form 6 (Well Abandonment Report) is required.

Completion Type  Final completion  Preliminary completion

1. OGCC Operator Number: 39560 4. Contact Name: MURRAY J. HERRING  
 2. Name of Operator: TOP OPERATING COMPANY Phone: (303) 727-9915  
 3. Address: 10881 ASBURY AVE STE 230 Fax: (303) 727-9925  
 City: LAKEWOOD State: CO Zip: 80227

5. API Number 05-013-06096-00 6. County: BOULDER  
 7. Well Name: RIDER Well Number: 1  
 8. Location: QtrQtr: NESE Section: 36 Township: 3N Range: 69W Meridian: 6  
 Footage at surface: Distance: 1650 feet Direction: FSL Distance: 990 feet Direction: FEL  
 As Drilled Latitude: 40.179100 As Drilled Longitude: -105.058699

GPS Data:  
 Date of Measurement: 07/05/2010 PDOP Reading: 2.4 GPS Instrument Operator's Name: ROD HERRING

\*\* If directional footage at Top of Prod. Zone Dist.: \_\_\_\_\_ feet. Direction: \_\_\_\_\_ Dist.: \_\_\_\_\_ feet. Direction: \_\_\_\_\_  
 Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_  
 \*\* If directional footage at Bottom Hole Dist.: \_\_\_\_\_ feet. Direction: \_\_\_\_\_ Dist.: \_\_\_\_\_ feet. Direction: \_\_\_\_\_  
 Sec: \_\_\_\_\_ Twp: \_\_\_\_\_ Rng: \_\_\_\_\_

9. Field Name: WATTENBERG 10. Field Number: 90750  
 11. Federal, Indian or State Lease Number: \_\_\_\_\_

12. Spud Date: (when the 1st bit hit the dirt) 01/29/1982 13. Date TD: 02/10/1982 14. Date Casing Set or D&A: 02/11/1982

15. Well Classification:  
 Dry  Oil  Gas/Coalbed  Disposal  Stratigraphic  Enhanced Recovery  Storage  Observation

16. Total Depth MD 7266 TVD\*\* \_\_\_\_\_ 17 Plug Back Total Depth MD 7266 TVD\*\* \_\_\_\_\_

18. Elevations GR 4972 KB 4982 One paper copy of all electric and mud logs must be submitted, along with one digital LAS copy as available.

19. List Electric Logs Run:  
IES, CDN, CBL. LOGS RUN IN 1982. NO DIGITAL LOGS AVAILABLE. ALL HARDCOPY LOGS SUBMITTED TO COGCC.

20. Casing, Liner and Cement:

**CASING**

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Top	Cmt Bot	Status
SURF	12+1/4	8+5/8		0	200	210	0	200	
1ST	7+7/8	4+1/2		0	7,265	200	6,190	7,265	

**STAGE/TOP OUT/REMEDIAL CEMENT**

Cement work date: \_\_\_\_\_

Method used	String	Cementing tool setting/pref depth	Cement volume	Cement top	Cement bottom

Details of work:

21. Formation log intervals and test zones:

FORMATION LOG INTERVALS AND TEST ZONES					
FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analyses must be submitted to COGCC)
	Top	Bottom	DST	Cored	
SUSSEX	3,415	3,515	<input type="checkbox"/>	<input type="checkbox"/>	
NIOBRARA	6,464	6,649	<input type="checkbox"/>	<input type="checkbox"/>	
FORT HAYS	6,649	6,675	<input type="checkbox"/>	<input type="checkbox"/>	
CODELL	6,672	6,690	<input type="checkbox"/>	<input type="checkbox"/>	
J SAND	7,138	7,154	<input type="checkbox"/>	<input type="checkbox"/>	

Comment:

FORMATION LOG INTERVALS AND TEST ZONES COMMENTS: NO DST OR CORES

FORM 5A DOC#2286037

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

Signed: \_\_\_\_\_ Print Name: MURRAY J. HERRING

Title: VICE PRESIDENT

Date: 11/4/2011

Email: TOPOPRTNG@AOL.COM

### Attachment Check List

Att Doc Num	Document Name	attached ?	
<b>Attachment Checklist</b>			
1694804	CMT Summary *	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Directional Survey **	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	DST Analysis	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Logs	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Other	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<b>Other Attachments</b>			
2286038	FORM 5 SUBMITTED	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Received cement job summary. operator unable to provide additional information.	3/15/2012 2:24:40 PM
Permit	ON HOLD: Added formation and tops per operator. w/o wireline and cement job summary & digital logs from work done 8/11/10.	2/7/2012 11:56:52 AM
Permit	ON HOLD: Requesting the formation and tops, the cement job summary and/or wireline & the digital logs.	1/25/2012 3:44:56 PM
Permit	ON HOLD: Requesting the formation and tops, the cement job summary and/or wireline & the digital logs.	1/4/2012 10:01:58 AM
Permit	Corrected API # to 013-06096. Notified operator of change.	12/28/2011 10:04:44 AM
Data Entry	CHECK CSG/LINER TOP.	12/23/2011 1:05:09 PM

Total: 6 comment(s)





PLANNING & DEVELOPMENT SERVICES  
 385 Kimbark Street, Longmont, CO 80501  
 Ph 303-651-8330; Fax 303-651-8696  
 www.longmontcolorado.gov/planning

## Site Plan Waiver & Change of Use Application

This form is to apply for a site plan waiver, change of tenant or a change in use.  
 Sign permits require a separate application and permit process.  
 A change of use for occupancy purposes may also be required by Building Inspection.

<b>Business Address:</b>	
Name of Business/Organization: TOP Operating Company	
Name of Previous Business/Organization: NA	
<b>Applicant Information</b>	
Applicant Name: TOP Operating Company	E-Mail: <a href="mailto:paul.herring@topoperating.com">paul.herring@topoperating.com</a>
Address (Include City & State): 3609 S. Wadsworth Blvd., Suite 340, Lakewood, CO 80235	
Phone: 303-727-9915	Fax: 303-727-9925
<i>* Applicant must be either the owner of the property or be a party with a purchase or lease agreement for the property.</i>	
<b>Description of Project/Proposed Use</b>	
Describe the proposed use in detail. If site improvements or site changes are proposed, please attach sketch plans to this application.	
<p>Plug and abandon (P&amp;A) Rider #1 well north of 9<sup>th</sup> Avenue and west of County Road 1. The P&amp;A operation and site reclamation will follow the Colorado Oil and Gas Conservation Commission (COGCC) rules and procedures. P&amp;A operation is scheduled to start on August 1 and be completed by August 5. Reclamation timing will be coordinated with the City of Longmont (surface owner).</p>	
Site or building modifications (check all that apply and describe changes):	
<input type="checkbox"/> Not Applicable <input type="checkbox"/> Paint <input type="checkbox"/> Facade Changes <input type="checkbox"/> Signage <input type="checkbox"/> Landscaping <input type="checkbox"/> Parking	
Describe:	
Existing oil and gas facilities associated with the Rider #1 well and owned by TOP Operating will be removed from the site. Site will be reclaimed according to COGCC rules in coordination with City of Longmont (surface owner).	
<i>**For all checked items above, please describe in detail, proposed exterior modifications. If painting, what colors will be used.</i>	

Please check any proposed changes to the following utilities (check all that apply and describe changes):

*If any utility changes or upgrades to existing utilities are proposed at the time of building permit application, please be advised that additional information may be required prior to the issuance of the building permit.*

- Not Applicable
- Water
- Sanitary Sewer
- Fire Protection
- Drainage
- Electrical
- Interior Tenant Finish

Describe:

P&A operation and reclamation shall be completed consistent with COGCC rules and procedures.

If indicated below, please provide the following additional items with your application:

- Floor Plan (Restaurants, Bars, Schools, Other Assembly Uses)
- Hazardous Materials (List all and quantities)

Days/Hours of Operation: M-F with operations generally during daylight hours between 7am and 7pm	Existing floor area (sq ft) prior to change: NA
	Total floor area (sq ft) after change: NA
# of Employees proposed (list shift information if applicable): NA	# of Parking Spaces Available (Include HC spaces): NA

**Waiver by Planning Director – Section 15.02.060.D(1)(d) of Longmont Municipal Code**

The Applicant may request a waiver of site plan review (including limited uses and amendments to previously approved conditional uses) by submitting a written request to the Planning Director. The Planning Director may waive site plan review for construction where the additional building area does not exceed ten (10) percent of the existing building area, on the property, or for changes in use when the Applicant demonstrates that such construction, site change, or change in use is found to meet the following criteria:

- i. The construction, site change, or change in use does not affect on- and off-site traffic circulation or parking areas;
- ii. The construction, site change, or change in use does not affect public utilities or services (including fire suppression/flow requirements), or affect the on-site drainage system;
- iii. The construction, site change, or change in use does not significantly alter the use of the property or cause adverse impacts on surrounding properties and neighborhoods or the environment without mitigating those impacts;
- iv. The construction, site change, or change in use does not result in any safety problems or hazards; and
- v. The construction, site change, or change in use complies with the review criteria stated in subsection F.5 below.

**Applicant Certification**

I hereby certify that the information and exhibits herewith submitted are true and correct to the best of my knowledge and that in filing the application I am acting with the knowledge and consent of the owners of the property. In submitting the application materials and signing this application, I acknowledge and agree that the application is subject to all the terms and conditions for a site plan waiver or change in use found the Title 15 of the City of Longmont Municipal Code. I understand that any false statements or omissions may result in denial or revocation of this application and jeopardize the approval of future permits. I further acknowledge that I have read the applicable regulations attached to this application and agree to fully comply with the regulations set forth by the City of Longmont any terms and conditions imposed by the decision making body as they relate to the site plan waiver or change in use.

Applicant Signature: 	Date: 7-28-16
--	---------------

**Planning Staff Use Only**

<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Conditionally Approved SEE WELL PERMIT	<input type="checkbox"/> Denied
-----------------------------------	---	---------------------------------

Zoning District: PUD-R	File Number:
------------------------	--------------

**Per Planning & Development Services**

Approval signature: 	Date: 8/2/2016
---	----------------

## **Brien Schumacher**

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**From:** Paul Herring <paul.herring@topoperating.com>  
**Sent:** Friday, July 29, 2016 10:43 AM  
**To:** Brien Schumacher; Dale Rademacher; Dan Wolford  
**Cc:** Rod Herring; Bob Gardner; Murray Herring  
**Subject:** Rider plugging tentative timeline

All, with the approval of the Rider Form 6, here is the TENTATIVE timeline for the plugging of the Rider well. Please note that this is TENTATIVE and things can and will change as we progress through the week:

### **Friday, July 29**

Placing of water in water pit to be used to kill Rider well prior to plugging. (Water is pumped down the well to overcome pressure from the well so that it can be plugged)

All, with the approval of the Rider Form 6, here is the TENTATIVE timeline for the plugging of the Rider well. Please note that this is TENTATIVE and things can and will change as we progress through the week:

### **Monday, August 1 - Wednesday August 3**

Transfer or sale of remaining oil in production tank

Removal of production tank and separator from location, transfer to Counter Yard

### **NO OPERATIONS ON THE WEEKEND**

### **Thursday, August 4**

Beginning of well plugging operations

### **Wednesday, August 10**

Plugging operations complete (Plugging operations could complete before this date)

### **Thursday, August 11**

Remediation continues, removal of other equipment

### **Friday, August 12**

Continued remediation

As things progress, I'll give you updates during the week.

Paul

--  
Paul Herring  
TOP Operating

3609 S. Wadsworth Blvd.  
Lakewood, CO 80235  
303-727-9915 (office)  
720-663-1698 (cell)





FORM 6

Rev 12/05

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

Document Number:

401078876

Date Received:

07/26/2016

WELL ABANDONMENT REPORT

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set.

A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 39560 Contact Name: Paul Herring
Name of Operator: TOP OPERATING COMPANY Phone: (720) 6631698
Address: 3609 S WADSWORTH BLVD STE 340 Fax:
City: LAKEWOOD State: CO Zip: 80235 Email: paul.herring@topoperating.com
For "Intent" 24 hour notice required, Name: Carlile, Craig Tel: (970) 629-8279
COGCC contact: Email: craig.carlile@state.co.us

API Number 05-013-06096-00 Well Name: RIDER Well Number: 1
Location: QtrQtr: NESE Section: 36 Township: 3N Range: 69W Meridian: 6
County: BOULDER Federal, Indian or State Lease Number:
Field Name: WATTENBERG Field Number: 90750

[X] Notice of Intent to Abandon [ ] Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.179100 Longitude: -105.058699
GPS Data: Date of Measurement: 07/05/2010 PDOP Reading: 2.4 GPS Instrument Operator's Name: ROD HERRING
Reason for Abandonment: [ ] Dry [X] Production Sub-economic [ ] Mechanical Problems [ ] Other
Casing to be pulled: [X] Yes [ ] No Estimated Depth: 3530
Fish in Hole: [ ] Yes [X] No If yes, explain details below
Wellbore has Uncemented Casing leaks: [ ] Yes [ ] No If yes, explain details below

Details: Procedure for cutting casing (part of overall procedure included in this form):
TOH, stand back tubing
RU casing equipment, un-land casing stretch and determine free point
RU wireline, TIH and cut casing at 3,530' (25' below bottom of Sussex), TOH, RD wireline
TOH and LD casing, RD casing equipment
TIH to 3580' (50' inside casing stub)
Pump 40sxs of to cover casing stub and Sussex

Current and Previously Abandoned Zones

Table with 6 columns: Formation, Perf. Top, Perf. Btm, Abandoned Date, Method of Isolation, Plug Depth

Total: 0 zone(s)

### Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	200	450	200	0	VISU
1ST	7+7/8	4+1/2	10.5	7,265	200	7,265	6,190	CBL

### Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6624 with 16 sacks cmt on top. CIBP #2: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
 CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top. CIBP #4: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
 CIBP #5: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 40 sks cmt from 3580 ft. to 3365 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
 Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
 Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
 Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
(Cast Iron Cement Retainer Depth)

Set 72 sacks half in. half out surface casing from 250 ft. to 0 ft. Plug Tagged:   
 Set \_\_\_\_\_ sacks at surface  
 Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker:  Yes  No  
 Set \_\_\_\_\_ sacks in rat hole Set \_\_\_\_\_ sacks in mouse hole

### Additional Plugging Information for Subsequent Report Only

Casing Recovered: \_\_\_\_\_ ft. of \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:



1. Conduct pre-job safety meeting and complete daily JSA
2. Prior to MIRU, check rig anchors and record initial shut-in pressures on tubing and casing
3. Blow down well/kill if necessary
4. Dig out around wellhead and perform Bradenhead test, document test on COGCC Form 17  
(If pressure is present call Paul Herring #720-663-1698 and Craig Owen #970-646-3933 for orders)
5. MIRU P&A equipment, NDWH, NUBOP
6. Un-land and LD tubing if present.
7. PU 6,650' of 2-3/8" 4.7# work-string with 4-1/2" 10.5# scraper/bumper sub
8. Load and circulate wellbore, TOH
9. PU 4-1/2" 10.5#, 10K, Owen's CIBP, TIH (slowly) and set at 6,624'.
10. Pump 16 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement on top to cover Niobrara  
(16 sxs is 210' in 4-1/2", TOC: 6,414')
12. TOH, stand back tubing
13. RU casing equipment, un-land casing, stretch and determine freepoint
14. RU wireline, TIH and cut casing at 3,530' (25' below bottom of Sussex), TOH, RD wireline
15. TOH and LD casing, RD casing equipment
16. TIH to 3,580' (50' inside casing stub)
17. Pump 40 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to cover casing stub and Sussex  
(4 sxs is 52' in 4-1/2", 36 sxs is 165' in 7-7/8", TOC: 3,365' or 50' above top of Sussex)
18. TOH and LD to 250', establish circulation to surface
19. Circulate 72 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to surface
20. TOH and LD tubing, RDMO, dig out and cut off wellhead, verify cement at surface, top off if necessary
21. Weld on cap with ID plate, backfill, clean location, remove production equipment and begin reclamation

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

Signed: \_\_\_\_\_ Print Name: Paul Herring  
 Title: Landman Date: 7/26/2016 Email: paul.herring@topoperating.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: BURN, DIANA Date: 7/28/2016

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 1/27/2017

COA Type	Description
	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) If surface casing plug not circulated to surface then tag plug – must be 150' or shallower and provide 10 sx plug at the surface. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

### Attachment Check List

Att Doc Num	Name
401078876	WELL ABANDONMENT REPORT (INTENT)
401083981	PROPOSED PLUGGING PROCEDURE
401083985	WELLBORE DIAGRAM
401083987	WELLBORE DIAGRAM
401085271	FORM 6 INTENT SUBMITTED

Total Attach: 5 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	5A that says the Jsand was TA'd in 7/20/2010, BP 6500'. Contacted operator. Pass	7/27/2016 2:03:26 PM
Permit	Need to fill out zones tab with JSand and Codell - include info when Jsand was TA'd.	7/20/2016 1:46:48 PM
Public Room	Document verification complete	7/19/2016 4:08:24 PM

Total: 3 comment(s)

Document Number:  
401096082

Date Received:  
08/29/2016

**WELL ABANDONMENT REPORT**

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set.

A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 39560 Contact Name: Paul Herring

Name of Operator: TOP OPERATING COMPANY Phone: (720) 6631698

Address: 3609 S WADSWORTH BLVD STE 340 Fax: \_\_\_\_\_

City: LAKEWOOD State: CO Zip: 80235 Email: paul.herring@topoperating.com

**For "Intent" 24 hour notice required,** Name: Carlile, Craig Tel: (970) 629-8279

**COGCC contact:** Email: craig.carlile@state.co.us

API Number 05-013-06096-00

Well Name: RIDER Well Number: 1

Location: QtrQtr: NESE Section: 36 Township: 3N Range: 69W Meridian: 6

County: BOULDER Federal, Indian or State Lease Number: \_\_\_\_\_

Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon       Subsequent Report of Abandonment

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.179100 Longitude: -105.058699

GPS Data:  
Date of Measurement: 07/05/2010 PDOP Reading: 2.4 GPS Instrument Operator's Name: ROD HERRING

Reason for Abandonment:  Dry     Production Sub-economic     Mechanical Problems

Other \_\_\_\_\_

Casing to be pulled:  Yes     No    Estimated Depth: \_\_\_\_\_

Fish in Hole:  Yes     No    If yes, explain details below

Wellbore has Uncemented Casing leaks:  Yes     No    If yes, explain details below

Details: \_\_\_\_\_

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	6674	6692	08/04/2016	CEMENT	6621
J SAND	7114	7154	07/20/2010	B PLUG / SQUEEZED	6800

Total: 2 zone(s)

**Casing History**

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	200	210	200	0	VISU
1ST	7+7/8	4+1/2	10.5	7,265	200	7,265	6,190	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6800 with 2 sacks cmt on top. CIBP #2: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top. CIBP #4: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.  
CIBP #5: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 40 sks cmt from 6622 ft. to 6142 ft. Plug Type: CASING Plug Tagged:   
Set 100 sks cmt from 3595 ft. to 3360 ft. Plug Type: STUB PLUG Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
(Cast Iron Cement Retainer Depth)  
Set 115 sacks half in. half out surface casing from 256 ft. to 0 ft. Plug Tagged:   
Set \_\_\_\_\_ sacks at surface  
Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker:  Yes  No  
Set \_\_\_\_\_ sacks in rat hole Set \_\_\_\_\_ sacks in mouse hole

### Additional Plugging Information for Subsequent Report Only

Casing Recovered: 3541 ft. 4+1/2 inch casing Plugging Date: 08/04/2016  
\*Wireline Contractor: Magna Energy \*Cementing Contractor: Magna Energy  
Type of Cement and Additives Used: Class "G" Neat 15.8 #  
Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

#### Technical Detail/Comments:

Plugging procedure used (changed with Diana Burns via phone while on site, sent via email, witnessed by COGCC inspector):

- 1) Trip out of hole with tubing and check tubing
- 2) Trip back in hole with tubing and pump cement from 6622' using 40 sacks of cement.
- 3) The top of the Niobrara is at 6,464'. Tagged cement at 6142'.
- 4) TOH with tubing and cut casing below Sussex at 3541'.
- 5) TIH at 3595', established circulation, pumped 100 sacks of cement, tagged TOC at 3360', top of Sussex is 3415'.
- 6) LD tubing to 256', established circulation, pumped 115 sacks of cement to surface
- 7) Tag cement at surface, cut and cap well 5' below ground surface w/ info on plate, backfill

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

Signed: \_\_\_\_\_ Print Name: Paul Herring  
Title: Landman Date: 8/29/2016 Email: paul.herring@topoperating.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Wolfe, Stephen Date: 5/8/2017

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
401096082	FORM 6 SUBSEQUENT SUBMITTED
401098127	CEMENT JOB SUMMARY
401098128	WIRELINE JOB SUMMARY
401100534	WELLBORE DIAGRAM

Total Attach: 4 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Added JSND CIBP to plug section. Moved Sussex plug to plug section. Moved surface plug to shoe section and brought to surface. Corrected casing tab to original casing and cement configuration. Corrected zones tab.	05/08/2017
Permit	Form 7 is OK.	02/01/2017

Total: 2 comment(s)

# Flowline and Final Reclamation Inspection

June 6, 2017

Operator: TOP OPERATING COMPANY- #39560

API: 05-013-06096

Boulder County, CO

NESE Section 36 T3N R69W

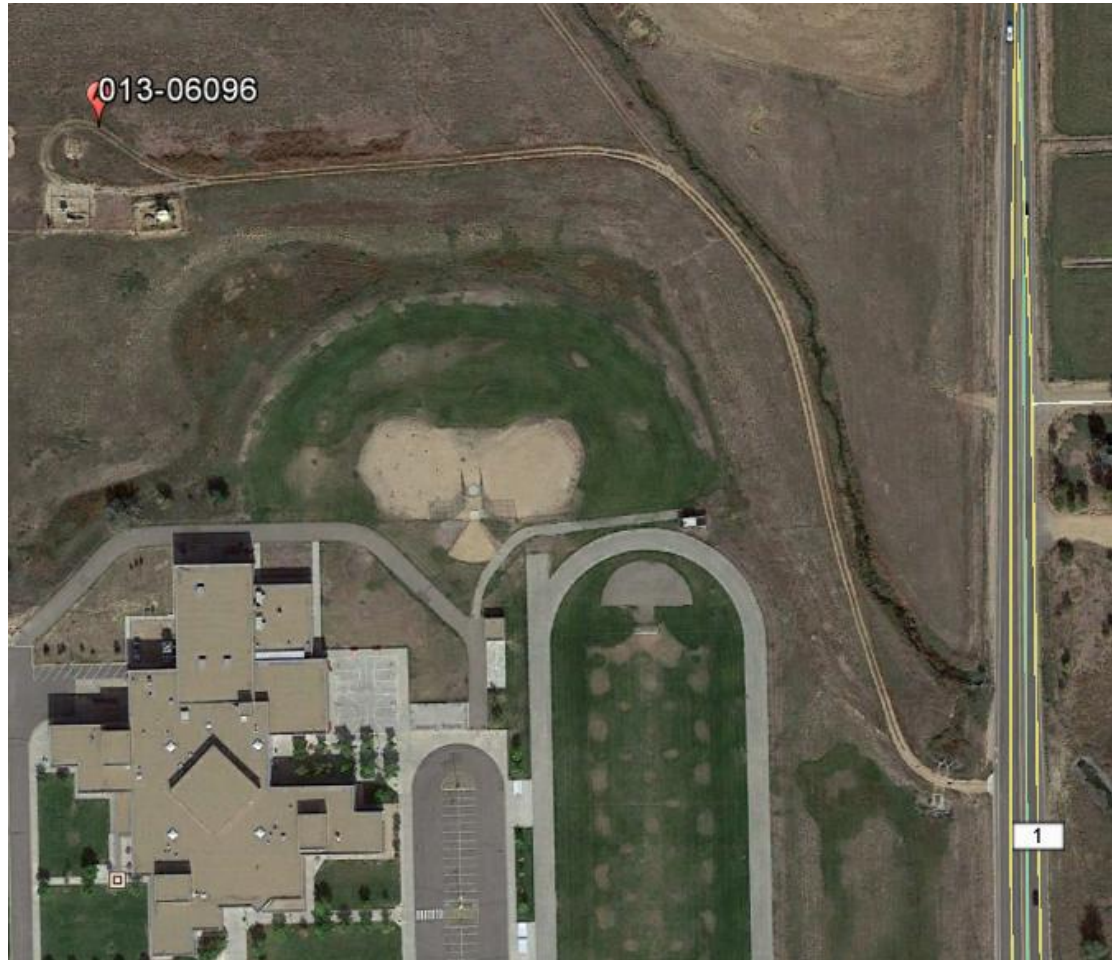
Chris Binschus  
Reclamation Specialist, COGCC



**COLORADO**  
Oil & Gas Conservation  
Commission

Department of Natural Resources

Inspection Photos  
Location Name: RIDER #1  
API: 05-013-06096



Google Earth aerial imagery from 10/9/2015 illustrating the access road and well location.

Inspection Photos  
Location Name: RIDER #1  
API: 05-013-06096



**Photo 1.** Photo taken from the northern well location, facing East. Does not appear final reclamation activities have been performed based on the lack of grass species and the abundance of weedy annuals, mostly Kochia.



**Photo 2.** Photo taken from the southern well location, facing East. Does not appear final reclamation activities have been performed based on the lack of grass species and the abundance of weedy annuals, mostly Kochia.



Inspection Photos  
Location Name: RIDER #1  
API: 05-013-06096



**Photo 3.** Photo taken from the well location along the access road, facing East. Access road is evident and does not appear final reclamation activities have been performed based on the lack of grass species and the abundance of weedy annuals, mostly Kochia.



**Photo 4.** Photo taken from the eastern access road, facing West towards the well location. Access road is evident and does not appear final reclamation activities have been performed based on the lack of grass species and the abundance of weedy annuals, mostly Kochia.

Inspection Photos  
Location Name: RIDER #1  
API: 05-013-06096



**Photo 5.** Photo taken from the previous photo location, facing South. Access road is evident and does not appear final reclamation activities have been performed based on the lack of grass species and the abundance of weedy annuals, mostly Kochia.



**Photo 6.** Photo taken of the access road entrance off CR 1. Culverts remain at location and have not been removed per Rule 1004.

Inspection Photos  
Location Name: RIDER #1  
API: 05-013-06096



**Photo 7.** Photo taken of a monitoring well on the well location. It is unclear whether all monitoring wells have been properly plugged.



**Photo 8.** Reference photo taken south of the well location illustrating Smooth Brome (*Bromus inermis*) and Western wheatgrass (*Pascopyrum smithii*).

FORM  
INSPRev  
X/15

## 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:

06/06/2017

Submitted Date:

06/07/2017

Document Number:

682402212

### FIELD INSPECTION FORM

Loc ID 321290 Inspector Name: Binschus, Chris On-Site Inspection  2A Doc Num: \_\_\_\_\_

**Status Summary:**

- THIS IS A FOLLOW UP INSPECTION  
 FOLLOW UP INSPECTION REQUIRED  
 NO FOLLOW UP INSPECTION REQUIRED

**Operator Information:**

OGCC Operator Number: 39560  
 Name of Operator: TOP OPERATING COMPANY  
 Address: 3609 S WADSWORTH BLVD STE 340  
 City: LAKWOOD State: CO Zip: 80235

**Findings:**

- 5 Number of Comments  
1 Number of Corrective Actions  
 Corrective Action Response Requested

**Contact Information:**

Contact Name	Phone	Email	Comment
HERRING, PAUL	(303) 727-9915	paul.herring@topoperating.com	
HERRING, MURRAY J	(303) 727-9915 x203	murray.herring@topoperating.com	

**Inspected Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
206601	WELL	PA	08/04/2016	OW	013-06096	RIDER 1	RI

**General Comment:**

2017 Flowline NTO Inspection 1000' Buffer. No visual evidence of equipment on location. Well was plugged on 8/4/2016. This is also a Reclamation Inspection for PA Well API #069-06096.

**Inspected Facilities**

Facility ID: 206601 Type: WELL API Number: 013-06096 Status: PA Insp. Status: RI

**Reclamation - Storm Water - Pit**

**Interim Reclamation:**

Date Interim Reclamation Started: \_\_\_\_\_ Date Interim Reclamation Completed: \_\_\_\_\_

Land Use: \_\_\_\_\_

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

**1002 SITE PREPARATION AND STABILIZATION**

1002a. FENCING \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1002b. SOIL REMOVAL AND SEGREGATION \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1002c. PROTECTION OF SOILS \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1002E. SURFACE DISTURBANCE MINIMIZATION \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1003a. Waste and Debris removed? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

Unused or unneeded equipment onsite? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

Pit, cellars, rat holes and other bores closed? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

Guy line anchors marked? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

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 \_\_\_\_\_

1003e. INTERIM VEGETATION TRANSECT  
 TRANSECT RESULTS OF DISTURBED AREA% \_\_\_\_\_  
 TRANSECT RESULTS OF REFERENCE AREA% \_\_\_\_\_  
 TOTAL % OF DESIRABLE VEGETATION COVER \_\_\_\_\_  
 VEGETATIVE COVER \_\_\_\_\_

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

Comment

Corrective Action

Date \_\_\_\_\_

Overall Interim Reclamation

**Final Reclamation/ Abandoned Location:**

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

Final Land Use: \_\_\_\_\_

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

Comment:

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

Debris removed \_\_\_\_\_ No disturbance /Location never built \_\_\_\_\_

Access Roads Regraded **Fail** Contoured \_\_\_\_\_ Culverts removed **Fail**

Gravel removed \_\_\_\_\_

Location and associated production facilities reclaimed **Fail** Locations, facilities, roads, recontoured **Fail**

Compaction alleviation \_\_\_\_\_ Dust and erosion control \_\_\_\_\_

Non cropland: Revegetated 80% **Fail** Cropland: perennial forage \_\_\_\_\_

Weeds present **Fail** Subsidence \_\_\_\_\_

1004.d. FINAL VEGETATION TRANSECT  
 TRANSECT RESULTS OF DISTURBED AREA% \_\_\_\_\_  
 TRANSECT RESULTS OF REFERENCE AREA% \_\_\_\_\_  
 TOTAL % OF DESIRABLE VEGETATION COVER \_\_\_\_\_  
 VEGETATIVE COVER \_\_\_\_\_

Comment:

Corrective Action:	Perform reclamation: Remove culverts and perform compaction alleviation, recontour, regrade access road and location. Manage weeds and establish vegetation with total perennial, non-invasive uniform plant cover of at least eighty (80) percent of pre-disturbance or reference area levels. Use a seed mixture requested by the surface owner, or a mixture prescribed by the local county NRCS. Ensure erosion controls are implemented to stabilize the seeded soil, and continue to monitor and manage this site until Final Reclamation has passed. Revegetation activities shall be complete no later than 11/01/2017.	Date <b>11/01/2017</b>
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Overall Final Reclamation **Fail** 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

Comment: At the time of this inspection, no stormwater erosion issues were observed at the location.

Corrective Action:  Date:

**Pits:**  NO SURFACE INDICATION OF PIT

**COGCC Comments**

Comment	User	Date
<span style="color: blue;">Please refer to the attached inspection photos in Document #682402214.</span>	binschusc	06/07/2017
<span style="color: blue;">It is unclear whether all monitoring wells have been properly plugged. Per the Conditions of Approval to close Remediation Project #3743, all ground water monitoring wells constructed during the subject remediation project must be properly plugged and Well Abandonment Reports (GWS-09) must be filled with the Colorado Division of Water Resources. COGCC staff may contact the Operator to show evidence that all ground water monitoring wells have been properly plugged.</span>	binschusc	06/07/2017

**Attached Documents**

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

Document Num	Description	URL
682402214	Inspection Photos	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4164895">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=4164895</a>