

# BobCat Collins well 3171

| DT_INSPTD  | API_WELLNO   | TYP_INS | VIOL  | SNC ECTIONPRESSURE | NULUSPRESSURE | CMMNT  |
|------------|--------------|---------|-------|--------------------|---------------|--|
| 1/7/2019   | 340992317100 | SW      | False | False              |               | I found no evidence of recent activity. The injection well is shut-in with a closed gate valve. There is a locked chain on the gate valve. The ball valves coming off of the annulus are closed and locked. An identification sign is posted. There is a chain with a lock across the access road.                             |
| 7/5/2018   | 340992317100 | SW      | False | False              |               | I found no evidence of recent activity. The wellhead is chained and locked. The 2" valves coming off of the wellhead are locked. There is an identification sign posted. The access road and pad are in stable condition.  |
| 5/23/2018  | 340992317100 | SW      | False | False              |               | I found the well shut-in. The main gate valve is chained and locked. An identification sign is posted. There is no facility associated with the well.  |
| 3/7/2018   | 340992317100 | SW      | False | False              |               | I was on location to inspect the injection well. I found the well still shut-in. The gate valve on the tubing is secure with a lock and chain. The two (2) 2" ball valves coming off of the annulus are secure with locks. An identification sign is hanging from the well. There is no UIC facility associated with the well. |
| 12/13/2017 | 340992317100 | SW      | False | False              |               | I found the wellhead valves locked. There is an identification sign posted in front of the wellhead. There is no facility associated with the well. The access road is in good repair with a locked chain at the entrance. There are no violations at this time.   |
| 11/8/2017  | 340992317100 | SW      | False | False              |               | I found the wellhead valves locked. There is an identification sign posted in front of the wellhead. There is no facility associated with the well. The access road is in good repair with a locked chain at the entrance. There are no violations at this time.   |

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| 9/26/2017 | 340992317100 | SW      | False | False              |               | I performed a status check on the above location. The well is not in operation at this time. There was no ID sign posted I called Dave Rice Field Supervisor and ask him to install an ID sign at the well head.   |
| 6/5/2017  | 340992317100 | SW      | False | False              |               | The injection well and wellsite were inspected. No change since last inspection and no sign of recent activity. No attempt has been made to construct the surface facility or hook-up the well.  |
| 3/30/2017 | 340992317100 | SW      | False | False              |               | No attempt has been made to construct the surface facility. There were no noticeable changes on location, since the last inspection.   |
| 9/7/2016  | 340992317100 | SW      | False | False              |               | There were no frac tanks remaining on location. Wellhead valves were locked. All conditions were acceptable.   |
| 8/3/2016  | 340992317100 | SW      | False | False              |               | Two frac tanks were removed. The remaining two tanks will be cleaned before they are moved. All conditions were acceptable.  |
| 7/26/2016 | 340992317100 | SW      | False | False              |               | Trucks were filling four frac tanks. The tanks were staged on temporary secondary containment. All conditions were acceptable.   |
| 6/27/2016 | 340992317100 | PB      | False | False              |               | Nicks Well Pluggers was on location with their pump truck to circulate the inhibitor and to perform the MIT test. The pressure was set at 2130 psi., all valves were closed. There was a DOGRM issued 3000 lb/psi gage used to record the pressure. After 20 minutes time there was no drop in the pressure. This operation was observed by my-self and UIC Inspector Steve Ochs and Dave Rice a company representative. |
| 6/27/2016 | 340992317100 | SW      | False | False              |               | A Baker Hornet Retrievable Packer was set in compression at 8343 feet. A mechanical integrity test was performed on the well. A pressure of 2130 psi. was placed on the tubing/casing annulus. The test passed without a loss.   |

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| 6/26/2016 | 340992317100 | PB      | False | False              |               | On 6/25/2016 I spoke to Andrew Adgate about not able to set the open-hole inflatable packer. He stated that it was not required but it was on their plan that application file with the UIC Division. He stated that they would need to make an amendment to there application. 6/26/2016, I was on location to witness the installation of the rebuild Backer Hughes Hornet Packer. Baker Hughes representative was on location to set the packer. The MIT test will be conducted on Monday 6/27/2016.   |
| 6/24/2016 | 340992317100 | PB      | False | False              |               | Team Energy ran 30 joints of 2-7/8 tubing back into well. They tagged cement at 9297' cement top good. They pulled 2-7/8 tubing out and racked in the finger board, once the tubing was out they ran the tubing back in the well bore with a Baker Hughes inflatable packer. SWACO was on location with there pump to set the packer but could not get enough rate to inflate the packer. Nick's Well Pluggers was called in with a larger pump truck. The packer would not set. Team started pullig the tubing. While pulling the 2-7/8 tubing with the inflatable packer they were bring up some fluid / fresh / brine water. There was a 6 mil liner installed around the rig floor to direct the fluid into the cellar and then pumped to the frac tanks. |
| 6/23/2016 | 340992317100 | PB      | False | False              |               | Team Energy ran 30 joints of 2-7/8 tubing back in the well bore to check the top of cement. They tagged cement at 9367' 72' short of the required cement top 9295. C&J Energy Services was on location. They pumped 20 barrels of fresh water, followed by 30 sacks class H 15.6 ppg cement (5.6 bbls). There was 51 barrels of brine used to displace the cement. All fluids were returned to the frac tanks. Shut well head in until tomorrow and check cement top.   |

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| 6/22/2016 | 340992317100 | PB      | False | False              |               | I was on location to witness Team Energy run 9827' of 2-7/8" casing to spot the 500' plug from the Granite formation to the Rome / Conasauga Formation at 9295' . C&J Energy Services was on location to cement the 500' plug. They pumped 450 barrels of brine to circulate the well bore, followed by 30 barrels of fresh water and they pumped 210 sacks of class H, 16.2 ppg cement ( 40.7 bbls ) All mix water was fresh water. They displaced with 51.1 barrels of brine. All fluids displaced were returned back into the frac tanks. |
| 6/22/2016 | 340992317100 | SW      | False | False              |               | A service rig was running tubing into the well. All conditions were acceptable.  |
| 6/21/2016 | 340992317100 | PB      | False | False              |               | I was on location to witness the release of the Baker Hornet packer The well was plumbed into the empty 500 barrel frac tanks. When the packer was released the well u tubed and flowed for short period of time. Team pulled 8100' of 4.5" 11.6 lb/ft casing. The casing will be taken to Miller Supplies yard to be pressure tested and drifted before gone back into the well. Baker Hughes was also on location to take the packer to there yard and rebuild and test before gone back into the well.                                    |
| 6/21/2016 | 340992317100 | SW      | False | False              |               | A service rig was pulling the tubing. All conditions were acceptable.  |
| 6/20/2016 | 340992317100 | PB      | False | False              |               | I was on location to witness the plug back operation of this well. There is containment on the location where the rig and four 500 barrel frac tanks will be setting. Two tanks will be for fresh water and two for brine water. Today the location will be prepared to start the plug back operation.   |
| 3/29/2016 | 340992317100 | SW      | False | False              |               | The inspection was a follow-up on Chief's Order No. 2013-03.<br>The permit has been reauthorized and transferred to a new owner. No plans have been made to construct the surface facility. The casing was hooked up to a plastic tank. Identification with the new owner's information was posted at the wellhead. No other changes have been made onsite.  |

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| 12/17/2015 | 340992317100 | SW      | False | False              |               | I performed an inspection on the above location. There is no tanks or pump installed. At this time there is no active. I noticed that there was water dripping from the 2" valve on the annuals. I called Gary Taneri and ask him to install a 200lb relief valve and also watch the fluid drip and also install an ID sign at the entrance. |
| 7/24/2015  | 340992317100 | SW      | False | False              |               | There were no changes onsite, since the last inspection.   |
| 3/27/2015  | 340992317100 | SW      | False | False              |               | No recent active. Wellhead remains shut-in. No equipment on location.  |
| 12/30/2014 | 340992317100 | SW      | False | False              |               | This permit has been revoked. The well remains shut-in. There was no indication of recent activity.  |
| 10/7/2014  | 340992317100 | SW      | True  | False              |               | Our records indicate that the Division has not received the Salt Water Injection Well Annual Report (Form 204) that was due on February 15th for 2012, and 2013.   |
| 9/15/2014  | 340992317100 | SW      | False | False              |               | There was no sign of recent activity. No apparent changes on location.   |
| 6/30/2014  | 340992317100 | SW      | False | False              |               | An inspection of the well site found no recent sign of activity. The well remains shut-in and disconnected.  |
| 2/4/2014   | 340992317100 | SW      | False | False              |               | There were no changes found on site.   |
| 10/31/2013 | 340992317100 | SW      | False | False              |               | My inspection was accompanied by Andrew Adgate. There were no changes at the well site.  |
| 10/29/2013 | 340992317100 | SW      | False | False              |               | I performed a status check on the above location. At present there is no active at this location.  |
| 10/15/2013 | 340992317100 | SW      | False | False              |               | There were no changes at the well site and no sign of activity.  |
| 5/8/2013   | 340992317100 | SW      | False | False              |               | My inspection found no activity on site. No additional work has been done on the facility. No frac tanks on location.  |
| 1/14/2013  | 340992317100 | SW      | False | False              |               | My inspection found no activity on site. One frac tank remains on location. No additional work has been done on the facility.  |

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| 12/18/2012 | 340992317100 | SW      | False | False              |               | I performed an inspection on the above location, this well is not in operation at this time. Some restoration has been completed, there is 2- 500 barrel frac tanks on location. Dave Jenkins will have them removed soon.   |
| 9/20/2012  | 340992317100 | UL      | False | False              |               | On 9/20/2012, I performed a fellow up on the above location at this time there is still 11 frac tanks on location, the has some site reclamation done but not completed at this time. Will call Dave Jenkins about the time frame for the completion of this location.   |
| 8/23/2012  | 340992317100 | SW      | True  | True               |               | On 8/23/2012, DNR Inspector Steve Ochs and myself did an inspection on the above location. This site has not been reclaimed and there is frac tanks on location. This is an Urban Location Per HB 165. The frac tanks needs to me removed and the reclamation need to be completed within 30 day of this date 9/6/2012.                                  |
| 8/23/2012  | 340992317100 | SW      | False | False              |               | My inspection of the well site was accompanied by another inspector, John Fleming.<br><br>The well was not in operation. The facility construction remains incomplete. The preliminary restoration needs finished. Frac tanks need to be removed from the locati   |
| 6/25/2012  | 340992317100 | SC      | False | False              |               | My inspection found the well idle and no further progress on the facility construction.  |
| 3/14/2012  | 340992317100 | SW      | False | False              |               | There were no violations at the time of inspection. The facility has yet to be constructed.  |
| 2/6/2012   | 340992317100 | PL      | False | False              |               | Both pits are closed. Nothing else has been done to restore this location. The top soil remains in stockpiles, and no construction has been started on a tank battery or injection facility. There are twelve 500 barrel frac tanks on location, as well as excavation equipment. Identification is posted at site entrance. No violations at this time. |

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| 1/18/2012 | 340992317100 | PL      | False | False              |               | On the day of my inspection I conducted a status check on pit closures at this site and found that the front pit had been solidified and closed. The blow pit remained open and still contained fluid. The pit liner was securely in place, with no sags, rips or tears. A D&L Energy employee was on location preparing the blow pit for solidification and closure by pumping the remaining fluid from the pit into a 500 barrel frac tank. There were no violations at this time.               |
| 1/5/2012  | 340992317100 | WR      | False | False              |               | I witnessed 162 barrels of corrosion inhibitor, mixed at a ratio of 10 gallons to 200 barrels fresh water, pumped into the annulus between the 7" production casing and the 4.5" injection casing. I also witnessed the mechanical integrity test (MIT) of the Baker Hornet packer along with DNR Inspector 2 Steve Ochs. The pressure tested at 2690 PSI for 15 minutes. The pressure dropped down to 2680 PSI after 15 minutes. This 10 PSI drop is within the allowed 5% bleed off. MIT passed. |
| 1/5/2012  | 340992317100 | SW      | False | False              |               | I was on site to witness the installation of the Baker Hornet Packer and the Mechanical Integrity Test (MIT). Ten gallons of inhibitor were mixed with 200 barrels of fresh water. They circulated the well with approximately 162 barrels of the inhibitor/water mix and then ran/set the packer. The MIT was performed with 2290 PSI on the annulus. The well passed with a 10 PSI loss during a 15 minute period.   |
| 1/4/2012  | 340992317100 | WR      | False | False              |               | The workover rig is on site running the 4.5" injection casing on the Baker Hornet packer. I met with Dave Jenkins, of D&L Energy, to address the sagging pit liner in the front pit. I witnessed D&L Energy vacuum all remaining fluid from the front pit, in addition to pulling up and staking all sagging areas of pit liner. No visual evidence of any pit fluid in contact with the soil.   |
| 1/3/2012  | 340992317100 | WR      | False | False              |               | I witnessed the Baker Hornet packer being run into hole on 4.5", 26#, R-3 casing.  |

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| 12/29/2011 | 340992317100 | WR      | False | False              |               | The workover rig was on site to drill out the multi-stage cement tool in preparation for the injection string. I met with Dave Jenkins, of D&L Energy, to discuss the projected timeline. The pits are fenced with temporary snow fence. The pit liner of the front pit was pulled down in the north corner by drill cuttings but the pit fluid level had been drained low enough that north end of pit remains dry. Blow pit liners in good shape and fluid levels are satisfactory.  |
| 12/16/2011 | 340992317100 | DD      | False | False              |               | I was requested by ODNR Hydrogeologist, Kyle Tharp to investigate citizen claim that pit liners were falling in and pits were overflowing, causing pollution and contamination. The front pit were approximately 75% drained on Tuesday, December 13. The pit liner on north side was sagging but there was no fluid near sagging portion. The north side of front pit was mounded up with dry drill cuttings. The back pit was not overflowing, but the fluid level was within 6" to 8" of breaching the pit wall. I took digital photographs and called Dave Jenkins (330-506-6509) of D&L Energy to request that a water truck be sent out immediately to drain some water from back pit and to pull up sag in pit liner on front pit. No violations at this time, as no fluid had been released from the drill pits. |
| 12/7/2011  | 340992317100 | DD      | False | False              |               | Union Drilling Rig 46 has rigged down, the air compressors and mud pumps have been removed from location allowing for equipment access to stockpiled soil. I called Dave Jenkins (330-506-6509) of D&L Energy with instructions that soil must be removed today.   |
| 11/28/2011 | 340992317100 | DD      | False | False              |               | U.D.I. Rig #46 drilling on fluid, at depth of 9486', switched to fluid drilling at 8438' due to strong gas shows. Pit liners in good shape, no leaks or spills around rig or associated equipment. Permit displayed in trailer and in doghouse. No violations at this time.  |



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| 11/22/2011 | 340992317100 | DD      | False | False              |               | U.D.I. Rig # 46 drilling on air, at depth of 8259'. All rainwater contaminated with drilling mud vacuumed up and all contaminated soil stockpiled within earthen dike for off site disposal. Tested two samples of water draining from drilling pad, chlorides = 104 ppm, pH = 6.0. Drilling location cleaned up to satisfaction. No further evidence of top soil or surface water contamination. Corrective actions satisfy 1501:9-1-07(A) and 1509.22(A).   |
| 11/21/2011 | 340992317100 | DD      | True  | True               |               | Union Drilling Rig 46 is drilling on air, at a depth of 7596'. I received an anonymous complaint that the drill pits were breaching the liners and running into a roadside ditch. The pits were not filled beyond capacity, the pit liners are in good condition and there is no visual evidence of overflow from the pits. The ditch in the stockpiled soil along the west side of the drill pad contains a greenish-grey opaque liquid. This ditch is being fed by run-off from the pad near the frac tanks. I noticed a build up of solid precipitate in the course of the run-off liquid. The ditch was feeding into a main drainage line around entire drill pad and draining into an open field to west. I tested the water in the ditch and in the open field. Both samples had chlorides = 158 - 212 ppm, and pH = 12.5 - 13. I called Kyle Tharp, ODNR Hydrogeologist, to further investigate this liquid. The rig crew reported that a driver overflowed the frac tank containing the drilling mud. There were visual signs of overflow on the side of the tank and on the soil around the tank. I instructed D&L to vacuum up all liquid and stockpile all impacted soil until further notice. |