

## Texas Commission on Environmental Quality Reportable Event/Activity Notification/Reporting Form

<b>Submittal Type</b>	<b>Initial Notification</b>		<b>Final Report</b>	<input checked="" type="checkbox"/>	<b>Agency Use Only</b>	<b>Incident #</b>	20151779	<b>Investigation #</b>			
<b>Name of Owner or Operator</b>			Encana Oil & Gas (USA) Inc. (CN601451149)					<b>RN/ Air Acct #</b>	Dromgoole B 8H		
<b>Physical Location</b> (how to get to location of release; may also include site name)						(28.899911,-97.826356) County Road 343 near FM 792					
<b>Process Unit or Area Common Name</b>			Eagleville (Eagle Ford-2) Karnes County								
<b>Facility Common Name</b> (where air contaminants were generated)			Dromgoole B Well 8H		<b>Emission Point Common Name</b> (where emissions were released to air)			Dromgoole B Well 8H			
<b>Facility Identification Number (FIN)</b>			N/A		<b>Emission Point Number (EPN)</b>			N/A			
<b>This Event/ Activity Type</b> (Indicate one)	<b>Emissions Event</b>	<input checked="" type="checkbox"/>	<b>Sch. Maintenance</b>			<b>Sch. Startup</b>	<b>Sch. Shutdown</b>		<b>Excess Opacity Event</b>		
	<b>Date / Time Event Discovered or Scheduled Activity Start</b> (e.g., 9/12/02 @ 13:21)		05	19	15	@	15	30	<b>Event Duration</b> (hh:mm:sec)	23	30
			<i>mm</i>	<i>dd</i>	<i>yy</i>		<i>hh</i>	<i>mm</i>		<i>hh</i>	<i>mm</i>
<b>List of Compound Descriptive Type(s) of Individually Listed or Mixtures of Air Contaminant Compounds Released, Including opacity</b> (See the notification and reporting requirements under 30 TAC §§ 101.201 and 101.211 for detailed information related to how to report compounds and opacity. See also 30 TAC §101.1(88)). Use attachments if necessary to report additional contaminants.					<b>Estimated Total Quantity for Air Contaminants for Emissions/ Opacity Value for Opacity</b>		<b>Units</b>	<b>Authorized Emissions Limit / Opacity Limit</b>	<b>Units</b>	<b>Authorization (rule or permit #)</b>	
Crude oil specific gravity 0.6591					760,956		lb				
Propane					47,276.13		lb				
Iso-Butane					10,854.95		lb				
N-Butane					16,654.37		lb				
Iso-Pentane					6,652.84		lb				
N-Pentane					5,597.43		lb				
Hexanes					7,091.09		lb				
Octanes (C8)					2,193.58		lb				
n-Heptane					1,390.92		lb				
Nonanes (C9)					1,231.48		lb				
Decanes (C10)					780.67		lb				
Methylcyclohexane					747.69		lb				
Undecanes (C11)					676.22		lb				
Toluene					649.16		lb				
Xylene					480.86		lb				

Cyclohexane	395.83	lb			
Methylcyclopentane	351.85	lb			
Benzene	203.82	lb			
Hydrogen Sulfide	35.57	lb			

**Cause of Emissions Event or Excess Opacity Event, or Reason for Scheduled Activity:**

*At 3:30 PM CST on May 19, 2015, while the AAA Well Service rig #133 was running in the hole with 2 3/8" production tubing and gas lift mandrels on Encana Oil & Gas (USA) Inc.'s (Encana) Dromgoole B Unit 8H well (API: 42-255-34351), well control was suddenly and unexpectedly lost. On May 12, 2015, a production packer had been set at 12,905' MD. After the packer was set, a successful negative test was achieved by bleeding the surface pressure to 0 psi. At the time of the incident, the rig had tripped in hole with 67 joints of tubing and 5 gas lift mandrels. While connecting another joint at the surface at approximately 3:30 PM CST, a downhole failure occurred and pressure control was lost. The well began to flow at this time. Encana contracted Boots & Coots, well control specialists, to assist in regaining well control. The well flowed oil, water and gas from 5:00 PM CST until flow was stopped at 3:00 PM CST on May 20, 2015.*

**Actions Taken, or Being Taken, to Minimize Emissions and/or Correct the Situation:**

*Encana engaged Boots & Coots, well control specialists, to assist in regaining well control. Boots & Coots employed a crimped tubing followed by a junk shot technique to regain pressure control. Flow from the well stopped at 3:00 PM CST on May 20, 2015. The well has been shut in since May 20, 2015.*

**Basis Used to Determine Quantities and Any Additional Information Necessary to Evaluate the Event:**

The upper range of the estimated emissions were calculated as follows:

1. The fluid flow rate from the well was estimated based on the observed time required to displace the water in the well, above the production packer (set at 12,905' MD), out of the wellbore. (Approximately 220 bbls of fresh water were displaced in 1.5 hours, equating to a total fluid rate of +/-3500 bbl/day.)
2. Based on calculated flow rate above, a fluid flow rate range of 3000-4000 bbls of fluid per day was utilized.
3. The first 1.5 hours of flow were of fresh water (and therefore oil and gas were not emitted during this time).
4. The remaining 22 hours of flow were of a mixture of oil, water and gas.
5. Offset well flow back data was analyzed to determine the water cut to be (10-30%).
6. GOR from offset wells ranges from 2500 to 3000 scf/bbl
7. During the first 1.5 hours fresh water was displaced from the well, so emissions calculations use a 22 hour duration.

*Upper range gas release calculation*

$4000 \text{ bbl/d} * (1-0.10 \text{ water cut}) * 3000 \text{ GOR} = 10.8 \text{ MMscf/d} (450 \text{ Mscf/hr})$

$22 \text{ Hour release duration: } 22 \text{ hours} * 450 \text{ Mscf/hr} = 9.9 \text{ MMscf.}$

The reporting of crude oil quantities is provided in accordance with communications with Carl Ortmann of the TCEQ.

Person Making Notification/ Date and Time	Andrew Baker / 6/2/15	Phone	720.876.3739
Incident Contact Person	Andrew Baker	Phone/ E-mail	Andrew.baker@encana.com
Jurisdiction(s) Notified	Region 13 – San Antonio (George Ortiz)		

## Texas Commission on Environmental Quality

Notifications are required to be submitted to the TCEQ regional office *and* any appropriate local air pollution control agency whose jurisdiction includes the site experiencing the event (See 30 TAC §§101.201(a)(1)(B) and 101.211(a)). Final reports are required to be submitted to the appropriate TCEQ regional office.

### Regional Offices

No. Region

1. **Amarillo:**  
3918 Canyon Drive  
Amarillo, Texas 79109-4933  
FAX: 806-358-9545

2. **Lubbock:**  
5012 50th St., Ste. 100  
Lubbock, Texas 79414-3426  
FAX: 806-796-7107

3. **Abilene:**  
1977 Industrial Blvd  
Abilene, Texas 79602-7833  
FAX: 915-692-5869

No. Region

7. **Midland:**  
9900 W. IH-20, Ste. 100  
Midland, Texas  
FAX: 432-561-5512

8. **San Angelo:**  
622 S. Oakes, Ste K  
San Angelo, Texas 76903-7013  
FAX: 915-658-5431

9. **Waco:**  
6801 Sanger Ave, Ste 2500  
Waco, Texas 76710-7826  
FAX: 254-772-9241

No. Region

12. **Houston:**  
5425 Polk, Ste H  
Houston, Texas 77023-1452  
FAX: 713-767-3520

13. **San Antonio:**  
14250 Judson Road  
San Antonio, Texas 78233  
FAX: 210-545-4329

14. **Corpus Christi:**  
NRC Bldg., Ste. 1200  
6300 Ocean Dr., Unit 5839  
Corpus Christi, Texas 7841-5839  
FAX: 361-825-3101

**4. Fort Worth:**  
2309 Gravel Drive  
Fort Worth, Texas 76118-6951  
FAX: 817-588-5702

**5. Tyler:**  
2916 Teague  
Tyler, Texas 75701-3734  
FAX: 903-595-1562

**6. El Paso:**  
401 E. Franklin Ave, St 560  
El Paso, Texas 79901-1212  
FAX: 915-834-4940

**10. Beaumont:**  
3870 Eastex Frwy  
Beaumont, Texas 77703-1830  
FAX: 409-892-2119

**11. Austin:**  
P.O. Box 13087 • Austin, TX 78711-3087  
12100 Park 35 Circle • Austin, TX 78753  
FAX: 512-339-3795

**15. Harlingen:**  
1804 W. Jefferson Ave.  
Harlingen, Texas 78550-5247  
FAX: 956-412-5059

**16. Laredo:**  
707 E. Calton Rd., Ste. 304  
Laredo, Texas 78041-3887  
FAX: 956-791-6716

## Local Programs

(Note: the local programs listed below are provided for your convenience only. There may be a local program with jurisdiction of your site not listed. Please consult with local municipal or county offices to determine your local program contact requirements.)

City of Dallas Public Works Dept. – Air Pollution Control Program  
320 E. Jefferson Blvd  
Dallas, Texas 75203  
FAX: 214/948-4412

El Paso City- Environmental Services Dept.  
7968 San Paulo Dr.  
El Paso, Texas 79907  
FAX: 915/559-6281

Fort Worth - Transportation & Public Works/Environmental Services, Air Program  
1000 Throckmorton St.  
Fort Worth, Texas 76102  
FAX: 817/392-6359

Galveston County Health District Office of Environmental Health Programs - Air & Water Pollution Services  
P.O. Box 939  
La Marque, Texas 77568  
FAX 409/938-2271