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Ville

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AB T0J2T0

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To

Destinataire

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CANADA

APPUYEZ FERMEMENT

PRESS FIRMLY

33-086-673 (05-08) PP-01

DÉTACHEZ ICI

ORIGINAL TO:

THE REGISTRAR

Supreme Court of Canada

301 Wellington Street

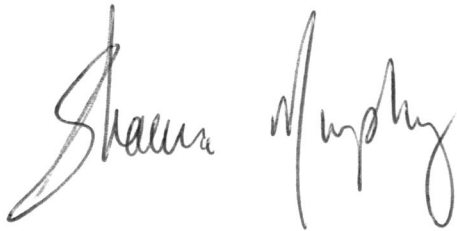
Ottawa, ON K1A 0J1

November 1, 2015

Dear Supreme Court of Canada,

Please accept this petition in support of the Ernst vs AER appeal Docket 36167.

I am attaching documents supporting statements made in the petition and DISTRIBUTED DIGITAL copies for all parties excluding the signatures and personal information of those who signed to protect their privacy. If there are any questions or concerns I can be contacted by phone at **403-677-2088**.

A handwritten signature in cursive script, reading "Shauna Murphy". The signature is written in dark ink on a white background.

Shauna Murphy

Box 695, Rosebud, Alberta T0J 2T0

**Re: Jessica Ernst vs Alberta Energy Regulator (AER) Supreme Court of Canada
Docket #36167**

We, the undersigned residents of the Hamlet of Rosebud, wish to add our voices to an urgent call to allow the AER to be held accountable for any damages incurred to our water source and reservoir as a result of fracking operations by Encana. Beforehand, the AER and Encana failed to consult with us about fracking planned in our drinking water zones. Since then, they have never confessed that Encana fracked our water source, the exact chemicals injected or what dangers residents are living with and the AER continues to let Encana frack in the fresh water zones here.

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For the AER, mandated to protect the public, to be legally immune from violating our charter rights in such an important drinking water contamination case is wrong and must be overturned.

We are not asking to file a factum or for time at the hearing.

Thank you for your consideration.

Name(print and signature)

P.O Box #, Rosebud, T0J 2T0

Phone Number

74 residents signed the petition.

The blue covers are to protect their privacy rights.

The original signatures were sent to the Supreme Court of Canada.

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l o i f e u z e k - k -		

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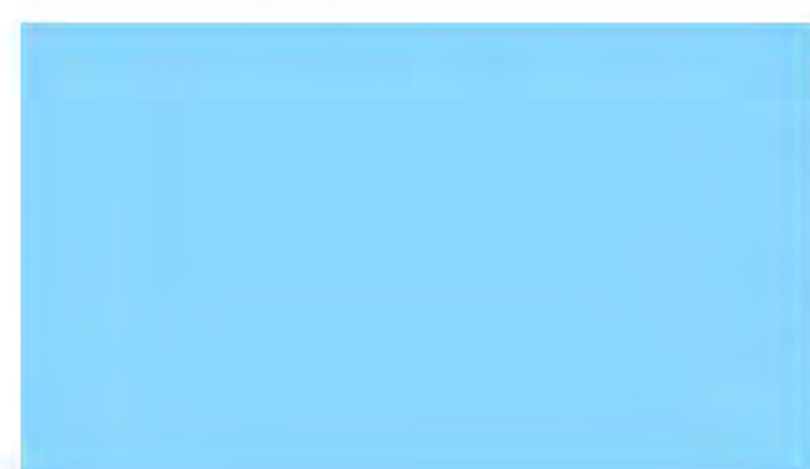
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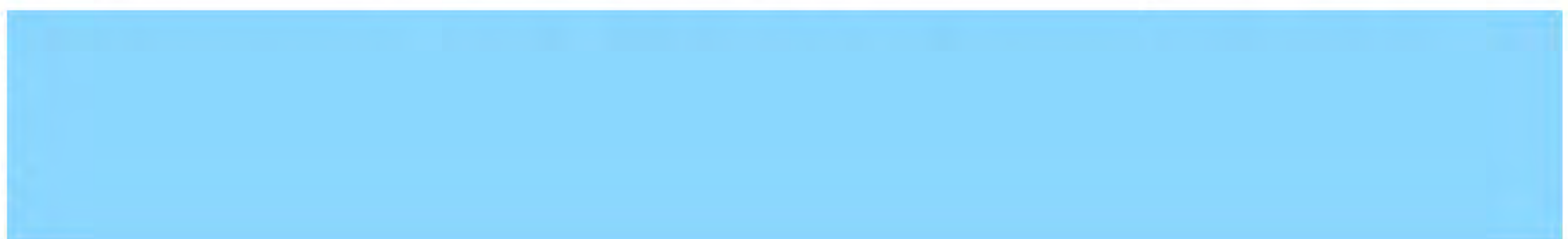
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Phone Number



✓

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Hamlet of Rosebud Petition to the Supreme Court of Canada Docket #36167
SUPPORTING DOCUMENTS*

2001 06 25: Encana gas well 02-06-04-27-22-W4M perforated into six zones of Rosebud's fresh water aquifers, most shallow perf at 100.5 metres below ground level. Data filed at the **water** well database, "TGWC" (The Groundwater Centre), https://www.tgwc.com/m_data.asp. This well was hydraulically fractured two months later. No chemicals used listed.

2003 10 13: Encana gas well 05-14-27-22-W4M also perforated into six zones of Rosebud's fresh water aquifers, most shallow perf at 121.5 metres below ground level. Filed at the **water** well database, "TGWC" (The Groundwater Centre), https://www.tgwc.com/m_data.asp. No chemicals used listed. On March 2, 2004, Encana hydraulically fractured Rosebud's drinking water aquifers (refer to AER summary data below) with 18 million litres of fluids to "obtain coal bed methane gas production."

2004 03 02: Encana gas well 05-14-27-22-W4M hydraulically fractured into Rosebud's drinking water aquifers, filed at AER's energy well database. None of the chemicals used in drilling, cementing, perforating, fracturing, or servicing are listed.

2004 11 10: Email from Brenda Austin, AER (then EUB) to Nga de la Cruz, Alberta Environment: "The base of groundwater protection for T 27 R 22W4M is 300 m below ground level."

2005 01 27: Strathmore Standard archived article reporting that an "accumulation of gases" appears to have caused the explosion that destroyed Rosebud's water reservoir on January 11, 2005.

2005 01: Hydrogeological investigation report cover and diagram by HCL for Encana, showing the company's hydraulically fractured completions into Rosebud's drinking water aquifers, the Upper and Middle Horseshoe Canyon, on the 05-14-27-22-W4M gas well.

2001 to 2006 04: Map showing about 200 Encana gas wells fractured into fresh water zones around Rosebud before April 2006, that the company and AER never consulted with the community on before or confessed to afterwards. Map created for the Ernst lawsuit using data filed by Encana at the AER. The black circles are energy wells completed below the base of groundwater protection.

Even after knowing Rosebud's drinking water aquifers were contaminated with methane, ethane (2006 fingerprints match Encana's), other hydrocarbons and chemicals, the AER continues to let Encana perf and frac the fresh water zones around Rosebud.

2013 01 18: One example of many, Encana's 00-15-12-27-22-W4M, a few hundred metres from the Ernst water well and our underground sewage field, most shallow perf at 201 metres below ground level.

*At the time of the law violations in Ernst vs AER, the AER was the EUB (Energy Utilities Board). In 2007, after it was caught breaking the law¹ and spying² on Albertans (both extensively reported in the media), the provincial government changed the regulator's name to the ERCB (Energy Resources Conservation Board). After the Ernst lawsuit went public, the Alberta government changed the ERCB to a 100% industry-funded corporation, the AER, removed its public interest mandate and appointed Ex-Encana VP Gerard Protti as Chair.

1 Office of the Information and Privacy Commissioner #F2007-IR-005

2 Justice D.W. Perras, September 7, 2007 Report on the spying.



*** 83 - Surveyed (other) — {Ground ; AMSL}

Owner: **EnCana Corporation**
[unknown], AB
Contractor: **[unknown saskatchewan contractor]**
Well Name: **ECA ECOG HUSSAR 5-14-27-22**

METRIC REPORT

Easting (m): **139,003** ** 84/83
Northing (m): **5,683,326** **
Elevation (m): **868.5** ***
[Google Earth](#)

05-14-027-22 W4M

M38268.500313



Work Type: **Gas Well**
Drilling Method: **Drilled**
Proposed Use: **Industrial**
Completion Type: **Casing/Perforated Liner**
Date Started: **Oct 13, 2003**
Date Completed: **Oct 13, 2003**

Elog Taken: **No**
Gamma Taken: **No**
Flowing: **No**

General Details

Depth Completed (m): **219.0**
Depth Drilled (m): **463.0** Completion Interval (m): **121.5 — 219.0 ***

Completion Details

Surface Casing: **[unknown] — 177.8 mm (O.D.) x 2.00 mm (thick) x 81.00 m (bottom)**
Liner: **[unknown] — 114.3 mm (O.D.) x 2.00 mm (thick)**

Intervals

(Liner Bottom at: 463.0 m)

-- Completion Interval(s) --

Slotted: **121.5 to 122.5 m - 2 - Method: Other**
Slotted: **127.7 to 130.0 m - 2 - Method: Other**
Slotted: **137.4 to 138.4 m - 2 - Method: Other**
Slotted: **173.1 to 174.1 m - 2 - Method: Other**
Slotted: **182.1 to 183.1 m - 2 - Method: Other**
Slotted: **216.1 to 219.0 m - 2 - Method: Other**

Chemistry Summary Details (mg/L)

(most recent first)

Lithology Details

Elevation (AMSL)	Depth (BGL)	Lithology Descriptions (1)
405.5	463.0	[unknown]

General Comments / Observations

HC well added to be included in a x-sec for 04-510. Perforations are representative of coal layers. Perforations performed with nitrogen gas. Objective of perforations was to obtain coal bed methane gas production.

Oil Present: **No** Gas Present: **No**
Observations (water): Colour: ; Odor: ; Quality:

Aquifer Tests**Alias IDs**

* TGWC calculated or determined value.
** 84 - Surveyed (other) — 10TM NAD83
*** 83 - Surveyed (other) — {Ground ; AMSL}

WELL ID: 00 / 05-14-027-22 W4 / 0

**ERCB COMPANY INFORMATION
CURRENT TO November 30, 2009**

COMPANY NAME:	ENCANA CORPORATION		
ADDRESS:	Box 2850, 150 - 9 Avenue SW Calgary, AB T2P 2S5		
PHONE #:	403-645-2000	BUSINESS ASSOCIATE CODE:	0026

**ERCB WELL PRODUCTION DATA
CURRENT TO OCTOBER 6, 2009**
AVERAGE DAILY PRODUCTION RATE
WATER

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
2004	0	0	0	0	0	0	0	96	0	0	0	0

ERCB WELL LICENSING DATA

UNIQUE WELL ID:	0274221405000	WELL LICENCE NUMBER:	0293679
REGULATION SECTION:	Section 2.020	WELL LICENCE DATE:	SEPTEMBER 24, 2003
SURFACE LOCATION:	05-14-027-22 W4	SURFACE OFFSETS:	N 570 E 40
ACTUAL SURFACE LATITUDE:	51.304912	LONGITUDE:	113.004771
THEORETICAL SURFACE LATITUDE:	0	LONGITUDE:	0
LICENCEE:	ENCANA CORPORATION		
ERCB AREA OFFICE:	MIDNAPORE	TERMINATING FORMATION:	BELLY RIVER GRP
LAHEE CLASSIFICATION:	DEVELOPMENT	CONFIDENTIAL STATUS:	NON CONFIDENTIAL
SURFACE OWNER:	FREEHOLD	MINERAL RIGHTS OWNER:	FREEHOLD
AGREEMENT NUMBER:		AGREEMENT TYPE:	
AGREEMENT EXPIRY DATE:		DRILL COST AREA:	
SCHEME APPROVAL NUMBER:		SCHEME EXPIRY DATE:	
INCENTIVE CERTIFICATE NUMBER:	00000	INCENTIVE CERTIFICATE DATE:	
SURFACE ABANDONED TYPE:	PLATE	SURFACE ABANDONED DATE:	AUGUST 31, 2009

ERCB WELL DRILLING OCCURRENCE DATA

WELL NAME:	ECA ECOG HUSSAR 5-14-27-22	FIELD:	HUSSAR
POOL:	BR UND	OIL SANDS AREA:	
OIL SANDS DEPOSIT:		DOWNHOLE OFFSETS:	N 570 E 40
ACTUAL DOWNHOLE LATITUDE:	51.304912	LONGITUDE:	113.004771
THEORETICAL DOWNHOLE LATITUDE:	0	LONGITUDE:	0
GROUND ELEVATION:	868.5	KB ELEVATION:	872.5
CF ELEVATION:	0	WELL TOTAL DEPTH:	467
TRUE VERTICAL DEPTH:	0	PB DEPTH:	0
SPUD DATE:	OCTOBER 13, 2003	FINAL DRILL DATE:	OCTOBER 13, 2003
RIG RELEASE DATE:	OCTOBER 13, 2003	ON PRODUCTION DATE:	
DRILLING CONTRACTOR:		RIG NUMBER:	34

ERCB WELL TOPS & MARKERS DATA

GEO REVISED DATE	TYPE	FORMATION	DEPTH	QUALITY	DESCRIPTION
	LOG	BELLY RIVER GRP	415.4	GOOD PICK FROM LOGS	TOP OF UNIT

ERCB WELL LOG DATA

LOG RUN NUMBER	LOG RUN DATE	LOG TYPE	TOP INTERVAL	BASE INTERVAL	DESCRIPTION
1	Jun 27 2004	GAMMA RAY CEMENT BOND	5	120	
1	Jun 29 2004	COLLAR LOG	105	180	
1	Nov 7 2003	COMP NEUTRON SONIC	50	450	

There is no DST data for this well.

There is no Tour - Occurrence data for this well.

There is no Tour - Direction Drilling data for this well.

ERCB WELL TOUR - CASING DATA

DATE	CASING	SIZE	SHOE SET DEPTH	LINER TOP DEPTH	DENSITY	STEEL PROCESS	YIELD STRENGTH	COLLAR TYPE	MXD STRING
Oct 10 2003	SURFACE	177.8	85	0	25.3	H	40		
Oct 13 2003	PRODUCTION	114.3	467	0	14.1	J	55		

ERCB WELL TOUR - CEMENTING DATA

STAGE NO	UNIT	AMOUNT	TYPE	RECEMENT
0	TONNEST	4	CLASS G NEAT	0
0	TONNEST	6	CLASS G NEAT	0

There is no Tour - Cores Cut data for this well.

ERCB WELL TOUR - PERFORATION / TREATMENT DATA

DATE	TYPE	INTERVAL TOP	INTERVAL BASE	SHOTS
Feb 15 2004	JET PERFORATION	418.9	419.9	13
Feb 15 2004	JET PERFORATION	415.5	416.5	13
Feb 15 2004	JET PERFORATION	374.3	375.3	13
Feb 15 2004	JET PERFORATION	371.7	372.7	13
Feb 15 2004	JET PERFORATION	358.4	359.4	13
Feb 15 2004	JET PERFORATION	354.5	355.5	13
Feb 15 2004	JET PERFORATION	347.8	348.8	13
Feb 15 2004	JET PERFORATION	342.6	343.6	13
Feb 15 2004	JET PERFORATION	284.9	286.9	13
Feb 15 2004	JET PERFORATION	283.5	284.5	13
Feb 15 2004	JET PERFORATION	259.3	260.3	13
Feb 15 2004	JET PERFORATION	248	250	13
Feb 15 2004	JET PERFORATION	244.9	245.9	13
Feb 15 2004	JET PERFORATION	238.6	239.6	13
Feb 15 2004	JET PERFORATION	234.6	235.6	13
Feb 15 2004	JET PERFORATION	228.7	230.7	13
Feb 15 2004	JET PERFORATION	222	223	13
Feb 15 2004	JET PERFORATION	220.1	221.1	13
Feb 15 2004	JET PERFORATION	186.1	187.1	13
Feb 15 2004	JET PERFORATION	177.1	178.1	13
Feb 15 2004	JET PERFORATION	141.4	142.4	13
Feb 15 2004	JET PERFORATION	133	134	13
Feb 15 2004	JET PERFORATION	131.7	132.7	13
Feb 15 2004	JET PERFORATION	125.5	126.5	13
Mar 2 2004	FRACTURED	131.7	419.9	0
Jul 12 2004	CEMENT SQUEEZE	141.4	142.4	0

Jul 12 2004	CEMENT SQUEEZE	133	134	0
Jul 12 2004	CEMENT SQUEEZE	131.7	132.7	0
Jul 12 2004	CEMENT SQUEEZE	125.5	126.5	0
Oct 10 2004	CEMENT PLUG	17	425	0

There is no Tour - Initial Production data for this well.

ERCB WELL TOUR - PLUG BACK / ABANDONMENT DATA

DATE	RUN TYPE	INTERVAL TOP	INTERVAL BASE	CEMENT UNIT	CEMENT AMOUNT	TOP FOUND DEPTH	SURF ABAND DATE
Oct 10 2004	ABANDON A ZONE	17	425	METRESM	408	17	

ERCB WELL STATUS HISTORY DATA

DATE	STATUS
Sep 24 2003	
Oct 13 2003	DRL&C
Jun 3 2004	GAS TEST
Oct 10 2004	GAS ABZONE
Aug 31 2009	GAS ABD

ERCB WELL COMPLETION DATA

INITIAL INTERVAL TOP	INITIAL INTERVAL BOTTOM
177.1	419.9

ERCB WELL PRODUCTION CONTROL DATA

WELL NAME:	ECA ECOG HUSSAR 5-14-27-22
FIELD NAME:	HUSSAR
POOL NAME:	BR UND
RECOVERY MECHANISM:	Natural Depletion
WELL STATUS FLUID:	Gas
WELL STATUS MODE:	Abandoned

Tom Byrnes

From: Brenda Austin
Sent: Wednesday, November 10, 2004 2:58 PM
To: Nga de-la-Cruz; Curtis Evans
Cc: Glenn Winner; Tom Byrnes
Subject: RE: Encana wells in Rosebud area

The base of groundwater protection for T 27 R 22W4 is 300 m below ground level, so Curtis is correct in that all water production would be saline. Companies are required to submit fluid analysis, but as these are taken soon after completion are generally poor for water related to CBM.

00/7-13; surface casing is at 38 metres and production casing is at 744 metres.
 02/7-13; surface casing is at 198 metres and production casing at 1482 metres.

Both casings are cemented to surface, therefore the requirement to protect non-saline groundwater with cemented casing has been met in both wells.

Just to add to Curtis's comments. There are two wells in LSD 7, not three.
 02/7-13-27-22W4/2 is the second production event in the 02/7-13-27-22W4/0 well, not another well.

Did I get everything?

-----Original Message-----

From: Nga de-la-Cruz
Sent: Wednesday, November 10, 2004 11:31 AM
To: Curtis Evans
Cc: Glenn Winner; Tom Byrnes; Brenda Austin
Subject: RE: Encana wells in Rosebud area

Thanks, Curtis.

Doesn't EUB require the companies to submit water production and water analyses ?

Could you give me the depth of the surface casing and the cemented length of the casing (production casing ?)

Thanks.
 Nga

-----Original Message-----

From: Curtis Evans [mailto:curtis.evans@gov.ab.ca]
Sent: Wednesday, November 10, 2004 11:05 AM
To: Nga de-la-Cruz
Cc: Glenn Winner; Tom Byrnes; Brenda Austin
Subject: RE: Encana wells in Rosebud area

Hello Nga - I only found two wells in that LSD, but one well has two events:

00/07-13-027-22W4/0 - gas flow - Belly River SST - TD=746 -
 perfs=648-654 mkb
 02/07-13-027-22W4/0 - Cr-oil abzone - Lwr Mannville - TD=1482 -
 perfs=1438-1442.5 mkb
 Same well 2nd event - gas flow - Viking - TD=same - perfs=1206-1208 mkb

I don't have ready access to the water quality, but it appears that all production is very deep and water would be a brine of some sort?

C.

-----Original Message-----

From: Nga de-la-Cruz
 Sent: Wednesday, November 10, 2004 10:39 AM
 To: Tom Byrnes; Brenda Austin
 Cc: Curtis Evans; Glenn Winner
 Subject: Encana wells in Rosebud area
 Importance: High

Hi,

I need some info quickly about 3 wells (1 of which was abandoned)
 at 7-13-27-22 W4 about their depth, production interval, formations they are
 in, and the water quality. Greatly appreciate your help.

Nga

Nga de la Cruz, P.Geol.
 Team Leader, Groundwater Issues
 Science and Standards Branch
 Alberta Environment
 4th Floor, Oxbridge Place
 9820 - 106 Street
 Edmonton, AB. T5K 2J6
 Tel: (780) 427-9915 Fax: (780) 422-4192
 Nga.de-la-Cruz@gov.ab.ca

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Rosebud has boiled water order

Strathmore Standard <http://www.strathmorestandard.com/2005/01/27/rosebud-has-boiled-water-order-following>
Thursday, January 27, 2005 10:00:00 MST AM

Investigators say an accumulation of gases appears to have caused the Jan. 11 explosion that destroyed the Rosebud water reservoir building and sent a Wheatland County employee to hospital with injuries.

As a result of the damage to the reservoir, Calgary Health Region has issued a boiling water order for the Hamlet.

Tracy Gooler, Wheatland County constable and manager of protective services, said that the county's water operator, John Garvin, was endeavoring to thaw out an inlet supply line, to the portable water reservoir in Rosebud, with a propane tiger torch at about 2:30 p.m.

"He had done his checks," Gooler said, adding that when the match was struck to light the torch, an explosion occurred.

"The explosion caused the lid of the potable water reservoir to become loose, and in fact, moved it 16 inches, opening the water to the elements."

Gooler said the operator was unable to detect the gases by smell and did not use a detection device. Garvin sustained non-life threatening, but fairly substantial injuries, including two broken wrists and some burns to the face and hands.

He was assisted by the Rockyford Fire Department and WADEMSA (Wheatland and Adjacent Districts Emergency Medical Services Association) took him to the Foothills hospital, Gooler said.

The reservoir sustained significant damage, including moving the concrete roof 16 inches, and some vertical cracks to the walls.

The county has hired a structural engineer to determine what needs to be done to repair it. Gooler said that report has not come back to the county so "what is going to happen with the reservoir, we're not sure."

In the meantime, because the potable water was exposed to the elements, the boil water advisory was issued and put in place and "remains in effect until the county can put in a back up system."

The county is bringing in four 1,500-gallon tanks that will be placed in a secure area.

Gooler said only the Hamlet of Rosebud is affected and the population is around 80 residents.

However, it is home to the Rosebud Theatre of the Arts and their performances attract visitors from across Alberta and elsewhere.

Gooler noted that this is sort of the "inactive" time for the theatre.

"When you have performances happening fairly often, the water moves quite a bit. When the theatre is not on, obviously 80 people don't use that much water, so the water doesn't move, and that's when our inlet supply line has a tendency to freeze," Gooler said.

While the health region issued the boiling water advisory, Alberta Environment and Occupational Health and Safety are working with the county to ensure standards are met and continue investigation into the mishap.

EnCana Corporation

Redland Area
NE 10-027-22 W4M
Sean Kenny Site Investigation

Prepared by
Hydrogeological Consultants Ltd.
1-800-661-7972
Our File No.: 04-510

January 2005

PERMIT TO PRACTICE

HYDROGEOLOGICAL CONSULTANTS LTD.

Signature _____

Date _____

13 Apr 05

PERMIT NUMBER P 385

The Association of Professional Engineers,
Geologists and Geophysicists of Alberta



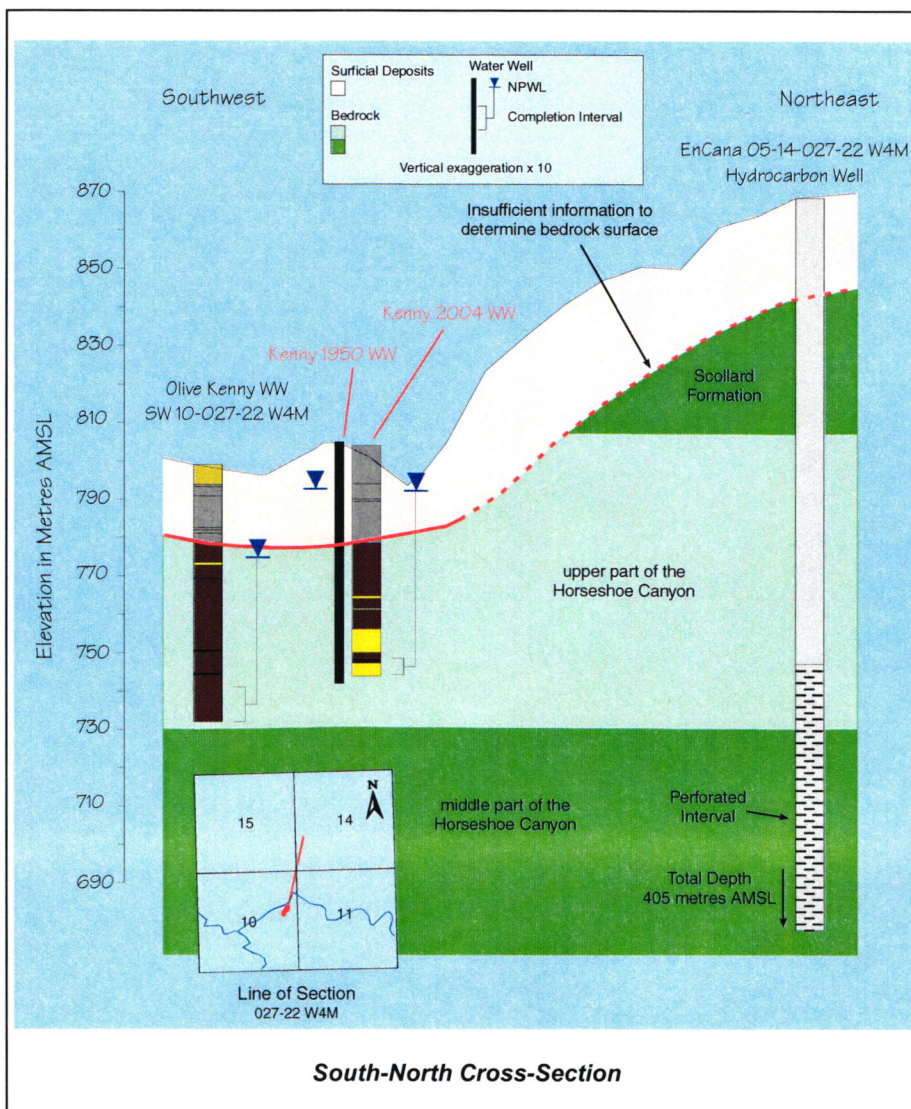
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6. INTERPRETATION

6.1. Aquifers

The SK 1950 WW and the SK 2004 WW are completed in the same hydraulic unit within the upper part of the Horseshoe Canyon Formation. The elevations of the water levels in both water wells are similar; there is no significant difference in the chemical quality of the groundwater from the two water wells and pumping from the SK 1950 WW causes measured drawdown in the water level in the SK 2004 WW. The vertical relationship between the elevation of the completion depths and the non-pumping water levels in the SK 1950 WW and the SK 2004 WW is shown in the adjacent cross-section.

Also shown on the cross-section is the EnCana 05-14 Gas Well and the perforation interval of the gas well when stimulated on 02 Mar 04. The cross-section shows the top of the perforated interval at an elevation of 747.45 metres AMSL, which coincides closely with the top of the completion interval of the SK 2004 WW.



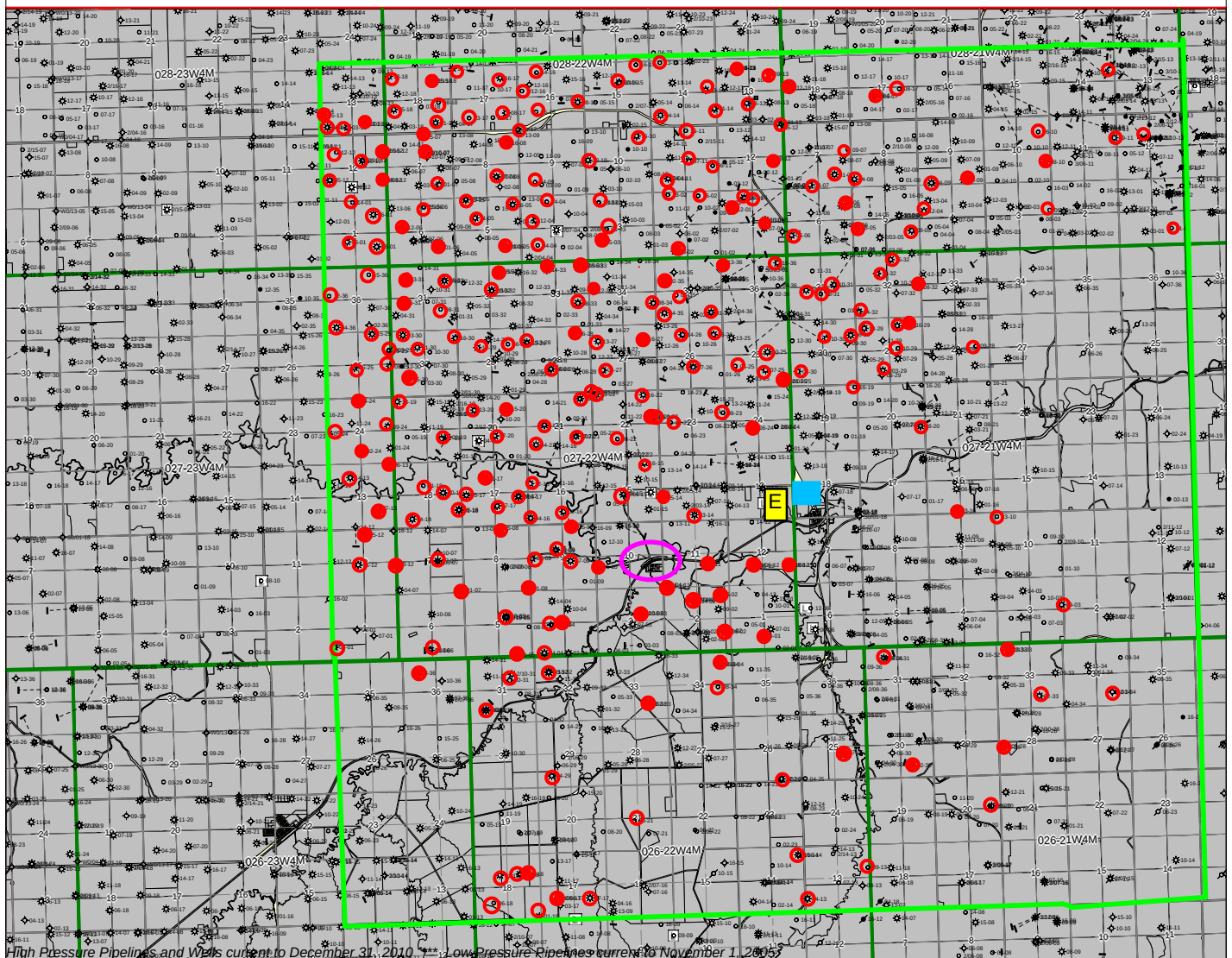
The stimulation of the EnCana 05-14 Gas Well used nitrogen gas and the estimated pressure outside the perforations is nine megaPascals. Based on an aquifer model, the pressure change measured at the SK 1950 and SK 2004 water wells as a result of the stimulation would be in the order of 0.2 kiloPascals. As a result of flowing the 05-14 Gas Well for 76 days after stimulation, very little if any nitrogen gas would be expected to remain in the coal zone in the 125.5- to 126.5-metres below KB interval.

6.2. Sean Kenny 2004 Water Well

The interpretation of the turbidity data indicates that there are two sources of sediment in the groundwater from the SK 2004 WW. The first source is the groundwater running down the outside of the liner; the second source is the sandstone layers below the coal zone. When the water well is not being pumped, there is a gradual flow of groundwater down the annulus.

Shallow Gas Wells Drilled and Frac'd Near Rosebud, Alberta

Circles: EnCana Wells Perforated and or Hydraulically Fractured Above the Base of Groundwater Protection before April 2006
Solid dots: EnCana Wells Perforated and or Hydraulically Fractured Above 200m before April 2006



E = approximate location of Ernst property

~ 1 mile

= Rosebud Community Water Tower that exploded in 2005

Wellheads

- ✱ Abandoned Wellhead
- ✱ Suspended Gas Wellhead
- ✱ Suspended Oil Wellhead
- ✱ Flowing Gas Wellhead
- Location Wellhead
- Flowing Oil Wellhead
- ✱ Miscellaneous Wellhead
- ✱ Water Wellhead
- ✱ Well Downhole Location
- ✱ Newly Licenced Well
- ✱ Newly Spudded Well

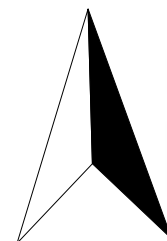
High Pressure Pipelines

- Gas Pipeline
- Oil Pipeline
- Water Pipeline
- LVP/HVP Pipeline
- Foreign Pipeline
- (Only when a company is specified.)

Low Pressure Pipelines

- Gas Co-op Pipeline

N



PRINT REPORT

CLOSE REPORT

WELL ID: 00 / 15-12-027-22 W4 / 0

AER COMPANY INFORMATION
CURRENT TO September 30, 2014

COMPANY NAME:	ENCANA CORPORATION		
ADDRESS:	Box 2850, 500 Centre St SE Calgary, AB T2P 2S5		
PHONE #:	403-645-2000	BUSINESS ASSOCIATE CODE:	0026

SWITCH TO DAILY RATE ONLY

AER WELL PRODUCTION DATA
CURRENT TO END OF AUG 2014

Liquids in cubic metres, gases in thousands of cubic metres

CONDENSATE																									
YEAR	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPT
	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	
2012	4	0	0	192	0	0	743	0	0	720	0	0	744	0	0	720	0.2	0.007	744	0	0	744	0	0	
GAS																									
YEAR	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPT
	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	
2012	4	0.1	0.6	192	2.8	0.35	743	0.4	0.013	720	0.8	0.027	744	0.7	0.023	720	0.7	0.023	744	0.4	0.013	744	0.3	0.01	
2013	744	7.3	0.235	672	9	0.321	743	26.4	0.853	703	20.9	0.714	732	16.8	0.551	719	15.8	0.527	728	20.1	0.663	734	26.7	0.873	
2014	738	15.5	0.504	666	17.1	0.616	743	12.6	0.407	711	14.2	0.479	743	17.5	0.565	705	15.7	0.534	738	15.5	0.504	719	13.2	0.441	
WATER																									
YEAR	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPT
	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	HOURS	VOLUME	DAILY	
2012	4	0	0	192	0	0	743	0	0	720	0	0	744	0	0	720	2.3	0.077	744	0	0	744	0	0	

AER WELL LICENSING DATA

UNIQUE WELL ID:	0274221215000	WELL LICENCE NUMBER:	0432788
REGULATION SECTION:	Section 2.020	WELL LICENCE DATE:	APRIL 7, 2011
SURFACE LOCATION:	15-12-027-22 W4	SURFACE OFFSETS:	S 205.3 W 645.1
ACTUAL SURFACE LATITUDE:	51.297703	LONGITUDE:	112.968131
THEORETICAL SURFACE LATITUDE:	0	LONGITUDE:	0
LICENCEE:	ENCANA CORPORATION		
AER AREA OFFICE:	MIDNAPORE	TERMINATING FORMATION:	MILK RIVER FM
LAHEE CLASSIFICATION:	DEVELOPMENT	CONFIDENTIAL STATUS:	NON CONFIDENTIAL
SURFACE OWNER:	FREEHOLD	MINERAL RIGHTS OWNER:	BOTH
AGREEMENT NUMBER:		AGREEMENT TYPE:	
AGREEMENT EXPIRY DATE:		DRILL COST AREA:	
SCHEME APPROVAL NUMBER:		SCHEME EXPIRY DATE:	
INCENTIVE CERTIFICATE NUMBER:	00000	INCENTIVE CERTIFICATE DATE:	
SURFACE ABANDONED TYPE:		SURFACE ABANDONED DATE:	

AER WELL DRILLING OCCURRENCE DATA

WELL NAME:	ECA HUSSAR 15-12-27-22	FIELD:	HUSSAR
POOL:	TEMP COMMINGLED CODE	OIL SANDS AREA:	
OIL SANDS DEPOSIT:		DOWNHOLE OFFSETS:	S 205.3 W 645.1
ACTUAL DOWNHOLE LATITUDE:	51.297703	LONGITUDE:	112.968131
THEORETICAL DOWNHOLE LATITUDE:	0	LONGITUDE:	0
GROUND ELEVATION:	792.4	KB ELEVATION:	796.4
CF ELEVATION:	0	WELL TOTAL DEPTH:	697
TRUE VERTICAL DEPTH:	0	PB DEPTH:	0
SPUD DATE:	NOVEMBER 8, 2011	FINAL DRILL DATE:	NOVEMBER 22, 2011
RIG RELEASE DATE:	NOVEMBER 23, 2011	ON PRODUCTION DATE:	FEBRUARY 22, 2012
DRILLING CONTRACTOR:		RIG NUMBER:	422

There is no Tops & Markers data for this well.

AER WELL LOG DATA

LOG RUN NUMBER	LOG RUN DATE	LOG TYPE	TOP INTERVAL	BASE INTERVAL	DESCRIPTION
1	Dec 14 2011	COMP NEUTRON SONIC	13	691	

There is no DST data for this well.

AER WELL TOUR - OCCURRENCE DATA

TYPE	OPERATOR PROG	DATE	DEPTH	MUD DENSITY	VISCITY	CNTRL DATE	CNTRL DEPTH	FNL MUD DENSITY	FNL VISCITY	WATER SEVERTY	WATER FLOW RATE	CIRCLN SEVERTY	LOST CIRCLN VOLUME
NO INCIDENT ENCT		Nov 3 2012	0	0	999		0	0	999		0		0
NO INCIDENT ENCT		Jan 23 2013	0	0	999		0	0	999		0		0

There is no Tour - Direction Drilling data for this well.

AER WELL TOUR - CASING DATA

DATE	CASING	SIZE	SHOE SET DEPTH	LINER TOP DEPTH	DENSITY	STEEL PROCESS	YIELD STRENGTH	COLLAR TYPE	MXD STRING
Nov 8 2011	SURFACE	177.8	96	0	25.3	H	40		
Nov 23 2011	PRODUCTION	114.3	697	0	14.1	J	55		

AER WELL TOUR - CEMENTING DATA

STAGE NO	UNIT	AMOUNT	TYPE	RECEMENT
0	TONNEST	3.9	CLASS G NEAT	0
0	TONNEST	10	LIGHT WEIGHT	0

There is no Tour - Cores Cut data for this well.

AER WELL TOUR - PERFORATION / TREATMENT DATA

DATE	TYPE	INTERVAL TOP	INTERVAL BASE	SHOTS
Jan 18 2013	JET PERFORATION	430	0	0
Jan 20 2012	JET PERFORATION	434	436	13
Jan 20 2012	JET PERFORATION	523	525	13
Jan 20 2012	JET PERFORATION	549	550	13
Jan 20 2012	JET PERFORATION	599	601	13
Jan 20 2012	JET PERFORATION	619	622	13
Jan 26 2012	FRACTURED	434	436	0
Jan 26 2012	FRACTURED	523	525	0
Jan 26 2012	FRACTURED	549	550	0
Jan 26 2012	FRACTURED	599	601	0
Jan 26 2012	FRACTURED	619	622	0
Jan 18 2013	JET PERFORATION	201	203	13
Jan 18 2013	JET PERFORATION	209.5	214.5	13
Jan 18 2013	JET PERFORATION	263	264	13
Jan 18 2013	JET PERFORATION	290	291	13
Jan 18 2013	JET PERFORATION	329	330	13
Jan 18 2013	JET PERFORATION	333.5	334	13
Jan 23 2013	FRACTURED	333.5	334	0
Jan 23 2013	FRACTURED	329	330	0
Jan 23 2013	FRACTURED	290	291	0
Jan 23 2013	FRACTURED	263	264	0
Jan 23 2013	FRACTURED	209.5	214.5	0

There is no Tour - Initial Production data for this well.

There is no Tour - Plug Back / Abandonment data for this well.

AER WELL STATUS HISTORY DATA

DATE	STATUS
Apr 7 2011	
Nov 22 2011	DRL&C
Jan 29 2012	GAS TEST
Feb 22 2012	GAS FLOW
Nov 2 2012	GAS FLOW
Feb 4 2013	FLOW

AER WELL COMPLETION DATA

INITIAL INTERVAL TOP	INITIAL INTERVAL BOTTOM
201	334

AER WELL PRODUCTION CONTROL DATA

WELL NAME:	ECA HUSSAR 15-12-27-22
FIELD NAME:	HUSSAR
POOL NAME:	COMMINGLED MFP9501
BATTERY TYPE:	Gas - Proration - Effluent Measurement
RECOVERY MECHANISM:	Natural Depletion
WELL STATUS FLUID:	Gas
WELL STATUS MODE:	Flowing

There is no Surface Case Vent Flow data for this well.