

## **Appendix J**

**Form 7s for all of Pembina's Suspended Brine Mining Caverns**

# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended		
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 25 CONC XI		
WELL NAME	Dow HC No. 7		LICENCE NO.	T003916			
OPERATOR	1195714 Alberta Ltd.		TD: 673.6 m	TVD	m PBDT: m		
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0		GROUND ELEV.	191.4 m	(above sea level)		
LAND OWNER	Pembina NGL Corporation		KB/R/ELEV.	196 m			
DRILLING CONTRACTOR	CABLE	ROTARY	<input checked="" type="checkbox"/>				
VERTICAL	HORIZONTAL	DIRECTIONAL	DEEPENING	RE-ENTRY	WORKOVER		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
GEOLOGIST							
GEOLOGICAL CONTACTS		TOP	TVD	ELEV.			
Lake Level							
Drift/Lake Bottom							
COORDINATES FROM		317 m.N	<input type="checkbox"/>	S	<input checked="" type="checkbox"/> FROM LOT LINE		
LOT BOUNDARIES		346.6 m.E	<input checked="" type="checkbox"/>	W	<input type="checkbox"/> FROM LOT LINE		
DEVONIAN	PORT LAMBTON						
	Kettle Point						
	HAMILTON						
	Marcellus						
	Dundee						
	DETROIT RIVER						
	Lucas						
	Amherstburg						
	Bois Blanc						
	Bass Islands						
SILURIAN	G unit	shale					
	F unit	shale					
		salt					
	E unit	carb.					
	D unit	salt					
	C unit	shale					
		marker					
	B unit	salt					
		anhy.					
		carb.					
ORDOVICIAN	A2 unit	salt					
		anhy.					
	A1 unit	carb.					
		evap.					
	Guelph						
	Eramosa						
	Goat Island						
	AMABEL	Gasport					
	Rochester						
	Irondequoit						
CAMBRIAN	Reynales						
	Thorold						
	Grimsby						
	Cabot Head						
	CATARACT	Manitoulin					
	Whirlpool						
	Queenston						
	Blue Mountain						
	Collingwood						
	TRENTON	Cobourg					
Sherman Fall							
Kirkfield							
BLACK RIVER	Coboconk						
Gull River							
Shadow Lake							
CAGING AND TUBING RECORD		SIZE	WEIGHT	SET AT	HOW SET	REC	
		406.3 mm	96.6 kg/m	81.4 m	cemented	Good	
		323.8 mm	80.3 kg/m	576.2 m	cemented	Good	
		139.7 mm	35.7 kg/m	621.3 m	hanging		
LOGGING RECORD		LOGGING CO.	LOGGER'S T.D.	N/A	m		
		LOGGED INTERVAL	TYPE	LOGGED INTERVAL	TYPE		
		608 - 0	GR N. N				
		564 - 0	Bond				
		Sonarwire	Sonar				
CORING RECORD		SIZE	REC	ANAL	CORED INTERVAL	REC	ANAL
RESULTS		m <sup>3</sup> /d					
GAS		10 <sup>3</sup> m <sup>3</sup> /d					
PRESSURE		kPag					
PRODUCING INTERVAL(S)							
Dry hole							
COMPLETION DATA		PERFORATED		OPEN HOLE			
PRODUCING FORMATION(S)		B Salt Production					
COMPLETION DATE:							

<p> <input type="checkbox"/> <b>For Department Use</b> </p>	
<p> <input type="checkbox"/> <b>For Department Use</b> </p>	<p> <input type="checkbox"/> <b>For Department Use</b> </p>



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL		STATUS: TYPE		Storage Cavern		MODE	Suspended							
COUNTY	Lambton		TOWNSHIP	Moore		TRACT	LOT	25	CONC	XI					
WELL NAME	Dow HC No. 8					LICENCE NO.	T003917								
OPERATOR	1195714 Alberta Ltd.					TD: 674.2 m	TVD	m	PBDT:	m					
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0					GROUND ELEV.	191.4 m		(above						
LAND OWNER	Pembina NGL Corporation					KB/RF ELEV.	196 m		sea level)						
DRILLING CONTRACTOR						CABLE	<input type="checkbox"/>	ROTARY	<input checked="" type="checkbox"/>						
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>	DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>		
GEOLOGIST															
GEOLOGICAL CONTACTS			TOP	TVD	ELEV.	COORDINATES FROM 469.4 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE									
Lake Level						LOT BOUNDARIES									
Drift/Lake Bottom						346.6 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> FROM LOT LINE									
DEVONIAN	PORT LAMBTON					GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>									
	Kettle Point					Surface Latitude 42.89593278 Surf. Longitude -82.41765083									
	HAMILTON					Bottomhole Lat. 42.89593278 Bottomhole Long. -82.41765083									
	Marcellus					DATE DRILLING STARTED									
	Dundee					DATE DRILLING ENDED 75-11-26									
	DETROIT														
	RIVER														
	Lucas														
	Amherstburg														
	Bois Blanc														
SILURIAN	Bass Islands					INITIAL GAS RECORD									
						INTERVAL		FLOW 1000 m <sup>3</sup> /d		S.I. PRESSURE kPa					
	G unit shale														
	F unit shale														
	salt														
	E unit carb.														
	D unit salt														
	C unit shale														
	marker														
	B unit salt														
ORDOVICIAN	shale														
	anh.														
	carb.														
	shale														
	A2 unit salt														
	anh.														
	A1 unit carb.														
	evap.														
	Guelph														
	Eramosa														
CAMBRIAN	Goat Island					CASING AND TUBING RECORD									
	Gasport					SIZE		WEIGHT		SET AT		HOW SET		REC	
	Rochester					406.3 mm		96.6 kg/m		63.1 m		cemented			
	Irondequoit					323.8 mm		59.5 kg/m		582.1 m		cemented			
	Reynolds					139.7 mm		35.7 kg/m		621.3 m		hanging			
	Thorold														
	Grimsby														
	Cabot Head														
	Manitoulin														
	Whirlpool														
PRECAMBRIAN	Queenston					LOGGING RECORD									
	Blue Mountain					LOGGING CO.		LOGGER'S T.D.		N/A		m			
	Collingwood					LOGGED INTERVAL		TYPE		LOGGED INTERVAL		TYPE			
	Cobourg														
	SHERMAN FALL					Sonarwire		Sonar							
	Kirkfield														
	BLACK COBOCONK														
	Gull River														
	Shadow Lake														
CORING RECORD															
SIZE															
CORED INTERVAL		REC		ANAL		CORED INTERVAL		REC		ANAL					
Additional geological contacts and intervals to be listed on reverse															
GEOLOGY FROM LOGS <input type="checkbox"/> SAMPLES <input type="checkbox"/>															
RESULTS															
OIL		m <sup>3</sup> /d				DISPOSITION OF CORE									
GAS		10 <sup>3</sup> m <sup>3</sup> /d				COMPLETION DATA									
PRESSURE		kPag				PERFORATED		<input type="checkbox"/>		OPEN HOLE		<input type="checkbox"/>			
PRODUCING INTERVAL(S)						PRODUCING FORMATION(S)									
Dry Hole						B Salt Mining									
COMPLETION DATE:															

**Plugging Record** -The plugging/plug-back method is to be described on Form 10 and attached hereto.  
Remarks

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.

December 14, 2014  
Date

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

[illegible]

## Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

<b>CLASS</b>		<b>FIELD OR POOL</b>		<b>STATUS: TYPE</b>	<b>Brine Mining</b>	<b>MODE</b>	<b>Suspended</b>
<b>COUNTY</b>	Lambton	<b>TOWNSHIP</b>	Moore	<b>TRACT</b>	LOT	25	<b>CONC</b> XI
<b>WELL NAME</b>	<b>Dow HC # 9</b>			<b>LICENCE NO.</b>	T006622		
<b>OPERATOR</b>	1195714 Alberta Ltd.			<b>TD:</b> 665.0 m	<b>TVD</b>	m	<b>PBTD:</b> m
<b>ADDRESS</b>	4391 Highway 40, Corunna, Ontario N0N 1G0			<b>GROUND ELEV.</b>	191.3 m	(above sea level)	
<b>LAND OWNER</b>	Pembina NGL Corporation			<b>KB/Rf ELEV.</b>	196.7 m		
<b>DRILLING CONTRACTOR</b>				<b>CABLE</b> <input type="checkbox"/>	<b>ROTARY</b> <input checked="" type="checkbox"/>		
<b>VERTICAL</b> <input type="checkbox"/>	<b>HORIZONTAL</b> <input type="checkbox"/>	<b>DIRECTIONAL</b> <input type="checkbox"/>	<b>DEEPENING</b> <input type="checkbox"/>	<b>RE-ENTRY</b> <input type="checkbox"/>	<b>WORKOVER</b> <input checked="" type="checkbox"/>	<b>OTHER</b> <input type="checkbox"/>	
<b>GEOLOGIST</b>				<b>COORDINATES FROM</b> 611.4 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> <b>FROM LOT LINE</b>			
<b>GEOLOGICAL CONTACTS</b>				<b>LOT BOUNDARIES</b>			
Lake Level				595 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> <b>FROM LOT LINE</b>			
Drift/Lake Bottom							
<b>DEVONIAN</b>	<b>PORT LAMBTON</b>			<b>GEOGRAPHIC COORDINATES</b> NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>			
	Kettle Point	42.0		Surface Latitude 42.89464722 Surf. Longitude -82.4218725			
	<b>HAMILTON</b>			Bottomhole Lat. 42.89464722 Bottomhole Long. -82.4218725			
	Marcellus			<b>DATE DRILLING STARTED</b> 85-01-04			
	Dundee	188.0		<b>DATE DRILLING ENDED</b> 85-01-23			
	<b>DETROIT RIVER</b>						
	Lucas						
	Amherstburg						
	Bois Blanc						
	Bass Islands						
<b>SILURIAN</b>	<b>LUCA</b>	G unit	shale				
		F unit	shale		NIL		
			salt				
		E unit	carb.				
		D unit	salt				
	<b>SASS</b>	C unit	shale				
			marker	575.0			
		B unit	salt	583.0			
			anhy.		NIL		
			carb.				
<b>ORDOVICIAN</b>	<b>AMABEL</b>		shale				
		A2 unit	salt				
			anhy.				
			carb.				
		A1 unit	evap.				
	<b>CATARACT</b>	Guelph			NIL		
		Eramosa					
		Goat Island					
		Gasport					
		Rochester					
<b>PRECAMBRIAN</b>	<b>IRONDEQUOIT</b>	Irondequoit					
		Reynales					
		Thorold					
		Grimsby					
		Cabot Head					
	<b>MANITOULIN</b>	Manitoulin					
		Whirlpool					
		Queenston					
		Blue Mountain					
		Collingwood					
<b>BLACK RIVER</b>	Cobourg						
	Sherman Fall						
	Kirkfield						
	Coboconk						
	Gull River						
Shadow Lake							
<b>CAMBRIAN</b>				<b>SIZE</b>			
<b>PRECAMBRIAN</b>				<b>CORED INTERVAL REC ANAL CORED INTERVAL REC ANAL</b>			
Additional geological contacts and intervals to be listed on reverse							
<b>GEOLOGY FROM LOGS</b> <input type="checkbox"/> <b>SAMPLES</b> <input type="checkbox"/>							
<b>RESULTS</b>							
OIL		m <sup>3</sup> /d	<b>DISPOSITION OF CORE</b>				
GAS		10 <sup>3</sup> m <sup>3</sup> /d	<b>COMPLETION DATA</b>				
PRESSURE		kPag	<b>PERFORATED</b> <input type="checkbox"/> <b>OPEN HOLE</b> <input type="checkbox"/>				
<b>PRODUCING INTERVAL(S)</b>			<b>PRODUCING FORMATION(S)</b>				
Dry Hole			Salina salt				
			<b>COMPLETION DATE:</b>				

For Department Use



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended	
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 25 CONC XI	
WELL NAME	Dow HC # 10		LICENCE NO.	T006620		
OPERATOR	1195714 Alberta Ltd.		TD: 666.5 m	TVD	m P8TD: m	
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0		GROUND ELEV.	191.6 m	(above	
LAND OWNER	Pembina NGL Corporation		KB/RF ELEV.	197 m	sea level)	
DRILLING CONTRACTOR			CABLE	ROTARY	X	
VERTICAL	HORIZONTAL	DIRECTIONAL	DEEPENING	RE-ENTRY	WORKOVER	OTHER
GEOLOGIST						
GEOLOGICAL CONTACTS			TOP	TVD	ELEV.	
Lake Level						
Drift/Lake Bottom						
PORT LAMBTON						
Kettle Point			41.0			
HAMILTON						
Marcellus						
Dundee			168.0			
DETROIT						
Lucas						
RIVER						
Amherstburg						
Bois Blanc						
Bass Islands						
G unit shale						
F unit shale						
salt						
E unit carb.						
D unit salt						
C unit shale						
marker			574.0			
B unit salt			582.0			
anhy.						
carb.						
shale						
A2 unit salt						
anhy.						
A1 unit carb.						
evap.						
Guelph						
Eramosa						
Goat Island						
AMABEL Gasport						
Rochester						
Irondequoit						
REYNOLDS						
Thorold						
Grimsby						
CABOT HEAD						
CATARACT Manitoulin						
Whirlpool						
Queenslon						
Blue Mountain						
Collingwood						
TRENTON						
Cobourg						
Sherman Fall						
Kirkfield						
BLACK						
RIVER						
Coboconk						
Gull River						
Shadow Lake						
CAMPBRIAN						
PRECAMBRIAN						
Additional geological contacts and intervals to be listed on reverse						
GEOLOGY FROM LOGS			SAMPLES			
RESULTS						
OIL		m <sup>3</sup> /d	DISPOSITION OF CORE			
GAS		10 <sup>3</sup> m <sup>3</sup> /d	COMPLETION DATA			
PRESSURE		kPag	PERFORATED	OPEN HOLE		
PRODUCING INTERVAL(S)			PRODUCING FORMATION(S)			
Dry Hole			Salina salt			
			COMPLETION DATE:			




DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS			CEMENTING RECORD		
Formation	Top	Elevation	Surface - 22 Tonnes High Early with 2% CaCl <sub>2</sub> , good returns		
			Intermediate - 76 Tonnes Kalicrete Salt Saturated, good returns		
			Grout - 1 Tonnes		
			Workover - 1992		
			repositioned mining strings		
			ran sonar log		
			MIT		
RECORD OF WELL TREATMENT AND STIMULATION					
Treatment Date					
Treatment No.					
Treat. Type					
Top Depth					
Base Depth					
Formation					
Treat Fluid					
Treat Amount					
Treat Pressure					
Frac Pressure					
Proppant Type					
Proppant Amt					
RECORD OF PRODUCTION TESTING			RECORD OF DRILLSTEM TESTING		
Test Date			Test Date		
Test No.			Test No.		
Test Type			Test Company		
Top Depth			DST Type		
Base Depth			Top Depth		
Formation			Base Depth		
Max gas rate			Formation		
Max oil rate			Test Result Code		
Init Stat Pres					
Final Stat Pres					
Flow Pressure					

**Plugging Record** - The plugging/plug-back method is to be described on Form 10 and attached hereto.  
 Remarks \_\_\_\_\_

SAMPLE PROCESSING FEE CALCULATION		*Payment must accompany this form.	
Metres of bagged samples	_____ x \$ .90 = _____ (A)	Fees for drill core will be invoiced	
Metres of vialled samples	_____ x \$ .60 = _____ (B)		
Horiz metres of bagged samples	_____ x \$ .45 = _____ (C)		
Horiz metres of vialled samples	_____ x \$ .30 = _____ (D)		
Total (A)+(B)+(C)+(D) _____ + 5% GST _____ = \$ _____			
Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust" , GST Registration # 873160097			

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.

Signature:  Patrick Mahoney Name: \_\_\_\_\_ Date: December 14, 2014

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

For Department Use



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 25 CONC XI
WELL NAME	Dow HC # 11	LICENCE NO.	T006807		
OPERATOR	1195714 Alberta Ltd.	TD: 670.0 m	TVD	m	PBTD: m
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0	GROUND ELEV.	191.6 m		(above
LAND OWNER	Pembina NGL Corporation	KB/RF ELEV.	195.1 m		sea level)
DRILLING CONTRACTOR		CABLE <input type="checkbox"/>	ROTARY <input checked="" type="checkbox"/>		
VERTICAL <input type="checkbox"/>	HORIZONTAL <input type="checkbox"/>	DIRECTIONAL <input type="checkbox"/>	DEEPENING <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	WORKOVER <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>
GEOLOGIST					
GEOLOGICAL CONTACTS		TOP	TVD	ELEV.	COORDINATES FROM 611.4 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE
Lake Level					LOT BOUNDARIES
Drift/Lake Bottom					304.8 m.E <input type="checkbox"/> W <input checked="" type="checkbox"/> FROM LOT LINE
DEVONIAN	PORT LAMBTON				GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>
	Kettle Point	46.0			Surface Latitude 42.89457333 Surf. Longitude -82.4181725
	HAMILTON				Bottomhole Lat. 42.89457333 Bottomhole Long. -82.4181725
	Marcellus				DATE DRILLING STARTED 85-08-12
	Dundee	187.0			DATE DRILLING ENDED 85-08-12
	DETROIT	Lucas			
	RIVER	Amherstburg			
	Bols Blanc				
	Bass Islands				
	G unit	shale			
F unit	shale				
E unit	salt				
D unit	carb.				
C unit	shale				
SILURIAN	marker	570.0			INITIAL GAS RECORD
	B unit	580.0			INTERVAL
	any.				FLOW 1000 m <sup>3</sup> /d
	carb.				S.I. PRESSURE kPa
	shale				
	A2 unit				INITIAL OIL RECORD
	any.				INTERVAL
	carb.				FLOW m <sup>3</sup> /d
	shale				API GRAVITY
	A1 unit				
evap.					
ORDOVICIAN	Guelp				WATER RECORD
	Eramosa				INTERVAL
	Goat Island				LEV.FR.SURF.
	Gasport				TYPE
	Rochester				
	Irondequoit				
	Reynales				
	Thorold				
	Grimsby				
	Cabot Head				
CAMBRIAN	Manitoulin				CASING AND TUBING RECORD
	Whirlpool				SIZE
	Queenston				WEIGHT
	Blue Mountain				SET AT
	Collingwood				HOW SET
	Cobourg				REC
	Sherman Fall				
	Kirkfield				
	Coboconk				
	Gull River				
Shadow Lake					
LOGGING RECORD					
LOGGING CO.		LOGGER'S T.D.		N/A m	
LOGGED INTERVAL		TYPE	LOGGED INTERVAL	TYPE	
670 - 0		GR-N			
Sonarwire		Sonar			
CORING RECORD					
SIZE					
CORED INTERVAL		REC	ANAL	CORED INTERVAL	
PRECAMBRIAN		REC	ANAL		
Additional geological contacts and intervals to be listed on reverse					
GEOLOGY FROM LOGS <input type="checkbox"/>		SAMPLES <input type="checkbox"/>			
RESULTS					
OIL	m <sup>3</sup> /d	DISPOSITION OF CORE			
GAS	10 <sup>3</sup> m <sup>3</sup> /d	COMPLETION DATA			
PRESSURE	kPag	PERFORATED <input type="checkbox"/> OPEN HOLE <input type="checkbox"/>			
PRODUCING INTERVAL(S)		PRODUCING FORMATION(S)			
Dry Hole		Salina salt			
COMPLETION DATE:					

DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS			CEMENTING RECORD		
Formation	Top	Elevation	Surface - 12 Tonnes High Early with 2% CaCl <sub>2</sub> , good returns		
			Intermediate - 36 Tonnes Class "G" with Saturated Brine, good returns		
			Grout - 2 Tonnes		
			Workover - 1991 repositioned mining airings ran sonar log		
			MIT		
RECORD OF WELL TREATMENT AND STIMULATION					
Treatment Date					
Treatment No.					
Treat. Type					
Top Depth					
Base Depth					
Formation					
Treat Fluid					
Treat Amount			PACKER RECORD		
Treat Pressure			Type	Size	Depth
Frac Pressure					
Proppant Type					
Proppant Amt					
RECORD OF PRODUCTION TESTING			RECORD OF DRILLSTEM TESTING		
Test Date			Test Date		
Test No.			Test No.		
Test Type			Test Company		
Top Depth			DST Type		
Base Depth			Top Depth		
Formation			Base Depth		
Max gas rate			Formation		
Max oil rate			Test Result Code		
Init Stat Pres					
Final Stat Pres					
Flow Pressure					

**Plugging Record** - The plugging/plug-back method is to be described on Form 10 and attached hereto.  
Remarks \_\_\_\_\_

SAMPLE PROCESSING FEE CALCULATION		*Payment must accompany this form.	
Metres of bagged samples	x \$ .90 =	(A)	Fees for drill core will be invoiced
Metres of vialled samples	x \$ .60 =	(B)	
Horiz metres of bagged samples	x \$ .45 =	(C)	
Horiz metres of vialled samples	x \$ .30 =	(D)	
Total (A)+(B)+(C)+(D)		+ 5% GST	= \$
Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust", GST Registration # 873160097			

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.

Signature: Patrick Mahoney Name: Patrick Mahoney Date: December 14, 2014

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

For Department Use

## Drilling and Completion Report

To the Minister of Natural Resources

Form 7

Y. 2008-01-01

CLASS		FIELD OR POOL		STATUS: TYPE		Brine Mining		MODE		Suspended	
COUNTY		Lambton		TOWNSHIP		Moore		TRACT		LOT 25 CONC XI	
WELL NAME		Dow HC # 12		LICENCE NO.		T006809					
OPERATOR		1195714 Alberta Ltd.		TD: 672.0 m		TVD		m		PBD: m	
ADDRESS		4391 Highway 40, Corunna, Ontario N0N 1G0		GROUND ELEV.		191.6 m				(above)	
LAND OWNER		Pembina NGL Corporation		KB/RF ELEV.		195.1 m				sea level)	
DRILLING CONTRACTOR				CABLE <input type="checkbox"/>		ROTARY <input checked="" type="checkbox"/>					
VERTICAL <input type="checkbox"/>		HORIZONTAL <input type="checkbox"/>		DIRECTIONAL <input type="checkbox"/>		DEEPENING <input type="checkbox"/>		RE-ENTRY <input type="checkbox"/>		WORKOVER <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	


GEOLOGIST				COORDINATES FROM 611.4 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE									
GEOLOGICAL CONTACTS				LOT BOUNDARIES 152.4 m.E <input type="checkbox"/> W <input checked="" type="checkbox"/> FROM LOT LINE									
Lake Level													
Drift/Lake Bottom													
PORT LAMBTON				GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>									
Kettle Point 46.0				Surface Latitude 42.89454722 Surf. Longitude -82.41630722									
HAMILTON				Bottomhole Lat. 42.89454722 Bottomhole Long. -82.41630722									
Marcellus				DATE DRILLING STARTED 85-09-03									
Dundee 185.0				DATE DRILLING ENDED 85-09-14									
DETROIT				INITIAL GAS RECORD									
RIVER				Amherstburg									
Bois Blanc				INTERVAL		FLOW 1000 m³/d		S.I. PRESSURE kPa					
Bass Islands													
G unit shale													
F unit shale				NIL									
salt													
E unit carb.													
D unit salt													
C unit shale													
marker salt 570.0				INTERVAL		FLOW m³/d		API GRAVITY					
B unit 579.0													
anhy.				NIL									
carb.													
shale													
A2 unit salt													
anhy.				INTERVAL		LEV.FR.SURF.		TYPE					
A1 unit carb.													
evap.													
Guelph				NIL									
Eramosa													
Goat Island													
Gasport													
Rochester													
Irondequoit													
Reynales				SIZE		WEIGHT		SET AT		HOW SET		REC	
Thorold				399.7 mm		71.4 kg/m		92.0 m		cemented		Good	
Grimsby				244.5 mm		53.7 kg/m		577.0 m		cemented			
Cabot Head				177.8 mm		29.7 kg/m		654.0 m		hanging			
Manitowlin				114.3 mm		14.1 kg/m		657.3 m		hanging			
Whirlpool													
CATARACT													
TRENTON													
Cobourg													
Sherman Fall													
Kirkfield													
BLACK RIVER													
Cobocook													
Gull River													
Shadow Lake													
CAMBRIAN													
PRECAMBRIAN													
Additional geological contacts and intervals to be listed on reverse													
GEOLOGY FROM LOGS <input type="checkbox"/> SAMPLES <input type="checkbox"/>													
RESULTS													
OIL													
GAS													
PRESSURE													
PRODUCING INTERVAL(S)													
Dry Hole													
COMPLETION DATA													
PERFORATED <input type="checkbox"/> OPEN HOLE <input type="checkbox"/>													
PRODUCING FORMATION(S)													

DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS			CEMENTING RECORD		
Formation	Top	Elevation	Surface - 12 Tonnes High Early with 2% CaCl <sub>2</sub> , good returns		
			Intermediate - 37 Tonnes Class "G" with Saturated Brine, no returns		
			Grout - 9.8 Tonnes		
			Workover - 1991		
			repositioned mining strings		
			ran sonar log		
			MIT		
RECORD OF WELL TREATMENT AND STIMULATION					
Treatment Date					
Treatment No.					
Treat. Type					
Top Depth					
Base Depth					
Formation					
Treat Fluid					
Treat Amount					
Treat Pressure					
Frac Pressure					
Proppant Type					
Proppant Amt					
			PACKER RECORD		
			Type	Size	Depth
RECORD OF PRODUCTION TESTING			RECORD OF DRILLSTEM TESTING		
Test Date			Test Date		
Test No.			Test No.		
Test Type			Test Company		
Top Depth			DST Type		
Base Depth			Top Depth		
Formation			Base Depth		
Max gas rate			Formation		
Max oil rate			Test Result Code		
Init Stat Pres					
Final Stat Pres					
Flow Pressure					

**Plugging Record** -The plugging/plug-back method is to be described on Form 10 and attached hereto.  
 Remarks \_\_\_\_\_

SAMPLE PROCESSING FEE CALCULATION		*Payment must accompany this form.	
Metres of bagged samples	_____ x \$.90 = _____	(A)	Fees for drill core will be invoiced
Metres of vialled samples	_____ x \$.60 = _____	(B)	
Horiz metres of bagged samples	_____ x \$.45 = _____	(C)	
Horiz metres of vialled samples	_____ x \$.30 = _____	(D)	
Total (A)+(B)+(C)+(D) _____ + 5% GST _____ = \$ _____			
Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust" , GST Registration # 873160097			

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.

 Signature	Patrick Mahoney Name	December 14, 2014 Date
--	-------------------------	---------------------------

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

For Department Use



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended									
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT	24	CONC	XII						
WELL NAME	Dow #45			LICENCE NO.	T003426									
OPERATOR	1195714 Alberta Ltd.			TD:	761.3 m	TVD	m	PBTD:	m					
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0			GROUND ELEV.	189.6 m			(above						
LAND OWNER	Pembina NGL Corporation			KB/RF ELEV.	193.2 m			sea level)						
DRILLING CONTRACTOR				CABLE	<input type="checkbox"/>	ROTARY	<input checked="" type="checkbox"/>							
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>	DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>	
GEOLOGIST														
GEOLOGICAL CONTACTS				TOP	TVD	ELEV.	COORDINATES FROM			687.30 m.N	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	FROM LOT LINE
Lake Level							LOT BOUNDARIES			406.00 m.E	<input checked="" type="checkbox"/>	W	<input type="checkbox"/>	FROM LOT LINE
Drift/Lake Bottom							GEOGRAPHIC COORDINATES			NAD27	<input type="checkbox"/>	NAD83	<input checked="" type="checkbox"/>	
PORT LAMBTON				Kettle Point	64.6		Surface Latitude			42.90581333	Surf. Longitude		-82.40880833	
HAMILTON				Marcellus			Bottomhole Lat.			42.90581333	Bottomhole Long.		-82.40880833	
DETROIT RIVER				Dundee			DATE DRILLING STARTED			72-05-15				
				Lucas			DATE DRILLING ENDED			72-05-29				
				Amherstburg			INITIAL GAS RECORD							
				Bois Blanc			INTERVAL	FLOW 1000 m³/d	S.I. PRESSURE kPa					
				Bass Islands										
				G unit	shale									
				F unit	shale									
				E unit	carb.									
				D unit	salt									
				C unit	shale		INITIAL OIL RECORD							
				B unit	marker salt	588.4	INTERVAL	FLOW m³/d	API GRAVITY					
					anhy.									
					carb.	679.3								
					shale									
				A2 unit	salt	761.3 TD	WATER RECORD							
					anhy.		INTERVAL	LEV.FR.SURF.	TYPE					
				A1 unit	carb.									
					evap.									
				Guelph										
				Eramosa										
				Goat Island										
				Gasport			CASING AND TUBING RECORD							
				Rochester			SIZE	WEIGHT	SET AT	HOW SET		REC		
				Irondequoit			339.7 mm	90.7 kg/m	64.2 m	cemented		Good		
				Reynolds			219.1 mm	35.7 kg/m	444.4 m	cemented		Good		
				Thorold			88.9 mm	kg/m	620.0 m	suspended				
				Grimsby										
				Cabot Head										
				Manitoulin										
				Whirlpool			LOGGING RECORD							
				Queenston			LOGGING CO.	Baker Hughes	LOGGER'S T.D.	N/A m				
				Blue Mountain			LOGGED INTERVAL	TYPE	LOGGED INTERVAL	TYPE				
				Collingwood			757.0 - 69	GRN						
				Cobourg			757.0 - 69	Caliper						
				Sherman Fall			440 to surface	vertilog						
				Kirkfield			Sonarwire	Sonar						
				BLACK RIVER	Coboconk									
					Gull River									
					Shadow Lake		CORING RECORD							
				CAMBRIAN			SIZE							
				PRECAMBRIAN			CORED INTERVAL	REC	ANAL	CORED INTERVAL	REC	ANAL		
Additional geological contacts and intervals to be listed on reverse														
GEOLOGY FROM LOGS <input type="checkbox"/> SAMPLES <input type="checkbox"/>														
RESULTS														
OIL						m³/d	DISPOSITION OF CORE							
GAS						10³m³/d	COMPLETION DATA							
PRESSURE						kPag	PERFORATED	<input type="checkbox"/>	OPEN HOLE	<input type="checkbox"/>				
PRODUCING INTERVAL(S)							PRODUCING FORMATION(S)							
Dry hole							Salina Salt Production							
							COMPLETION DATE:							





# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended	
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 24 CONC XI	
WELL NAME	Dow # 61	LICENCE NO.	T005210			
OPERATOR	1195714 Alberta Ltd.	TD: 753.0 m	TVD	m	PBTD: m	
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0	GROUND ELEV.	191.9 m	(above		
LAND OWNER	Pembina NGL Corporation	KB/RF ELEV.	197.4 m	sea level)		
DRILLING CONTRACTOR		CABLE	<input type="checkbox"/>	ROTARY	<input checked="" type="checkbox"/>	
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>	
DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>	
OTHER	<input type="checkbox"/>					
GEOLOGIST						
GEOLOGICAL CONTACTS		TOP	TVD	ELEV.		
Lake Level						
Drift/Lake Bottom						
DEVONIAN	PORT LAMBTON					
	Kettle Point					
	HAMILTON					
	Marcellus					
	Dundee					
	DETROIT					
	Lucas					
	RIVER					
	Amherstburg					
	Bois Blanc					
SILURIAN	Bass Islands					
	G unit	shale				
	F unit	shale				
	E unit	carb.				
	D unit	salt				
	C unit	shale				
	marker	577.0				
	B unit	salt	584.0			
	anh.					
	carb.	674.0				
	shale					
	A2 unit	salt	718.0			
	anh.	752.0				
	A1 unit	carb.				
	evap.					
AMABEL	Guelph					
	Eramosa					
	Goat Island					
	Gasport					
	Rochester					
	Irondequoit					
	Reynolds					
	Thorold					
	Grimsby					
	Cabot Head					
CATARACT	Manitoulin					
	Whirlpool					
ORDOVICIAN	Queenston					
	Blue Mountain					
	Collingwood					
	Cobourg					
	Sherman Fall					
	Kirkfield					
	BLACK					
	RIVER					
	Coboconk					
	Gull River					
Shadow Lake						
CAMBRIAN						
PRECAMBRIAN						
Additional geological contacts and intervals to be listed on reverse						
GEOLOGY FROM LOGS		<input type="checkbox"/>	SAMPLES	<input type="checkbox"/>		
RESULTS						
OIL		m <sup>3</sup> /d	DISPOSITION OF CORE			
GAS		10 <sup>6</sup> m <sup>3</sup> /d	COMPLETION DATA			
PRESSURE		kPag	PERFORATED	<input type="checkbox"/>	OPEN HOLE	<input type="checkbox"/>
PRODUCING INTERVAL(S)		PRODUCING FORMATION(S)				
Dry hole		A2 Salt Production				
COMPLETION DATE:						



[illegible]



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS		FIELD OR POOL		STATUS: TYPE		Brine Mining		MODE		Suspended	
COUNTY		Lambton		TOWNSHIP		Moore		TRACT		LOT 24 CONC XI	
WELL NAME		Dow # 62		LICENCE NO.		T005211					
OPERATOR		1195714 Alberta Ltd.		TD: 752.0 m		TVD		m		PBD: m	
ADDRESS		4391 Highway 40, Corunna, Ontario N0N 1G0		GROUND ELEV.		192.2 m		(above			
LAND OWNER		Pembina NGL Corporation		KB/RF ELEV.		195.7 m		sea level)			
DRILLING CONTRACTOR				CABLE <input type="checkbox"/>		ROTARY <input checked="" type="checkbox"/>					
VERTICAL <input type="checkbox"/>		HORIZONTAL <input type="checkbox"/>		DIRECTIONAL <input type="checkbox"/>		DEEPENING <input type="checkbox"/>		RE-ENTRY <input type="checkbox"/>		WORKOVER <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	
GEOLOGIST											
GEOLOGICAL CONTACTS											
Lake Level											
Drift/Lake Bottom											
COORDINATES FROM 113.2 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE											
LOT BOUNDARIES											
240.7 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> FROM LOT LINE											
GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>											
Surface Latitude 42.89895917 Surf. Longitude -82.41108556											
Bottomhole Lat. 42.89895917 Bottomhole Long. -82.41108556											
DATE DRILLING STARTED 80-08-04											
DATE DRILLING ENDED 89-08-25											
5211											
INITIAL GAS RECORD											
INTERVAL FLOW 1000 m <sup>3</sup> /d S.I. PRESSURE kPa											
INITIAL OIL RECORD											
INTERVAL FLOW m <sup>3</sup> /d API GRAVITY											
WATER RECORD											
INTERVAL LEV.FR.SURF. TYPE											
CASING AND TUBING RECORD											
SIZE WEIGHT SET AT HOW SET REC											
339.7 mm 90.8 kg/m 62.5 m cemented Good											
244.5 mm 53.7 kg/m 597.9 m cemented Good											
LOGGING RECORD											
LOGGING CO. Great Guns LOGGER'S T.D. N/A m											
LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE											
752 - 500 G/N											
752 - 0 Calper											
Sonarwire Sonar											
CORING RECORD											
SIZE											
CORED INTERVAL REC ANAL CORED INTERVAL REC ANAL											
DISPOSITION OF CORE											
COMPLETION DATA											
PERFORATED <input type="checkbox"/> OPEN HOLE <input type="checkbox"/>											
PRODUCING FORMATION(S)											
A2 Salt Production											
COMPLETION DATE:											

DEVONIAN	PORT LAMBTON			
	HAMILTON	Kettle Point		
		Marcellus		
		Dundee		
	DETROIT	Lucas		
	RIVER	Amherstburg		
		Bois Blanc		
		Bass Islands		
		G unit shale		
		F unit shale		
SILURIAN		E unit carb.		
		D unit salt		
		C unit shale		
		marker	576.0	
		B unit salt	583.0	
		anhy.		
		carb.	673.0	
		shale		
		A2 unit salt	718.0	
		anhy.	751.0	
ORDOVICIAN		carb.		
		evap.		
		Guelph		
		Eramosa		
		Goat Island		
	AMABEL	Gasport		
		Rochester		
		Irondequoit		
		Reynales		
		Thorold		
CAMBRIAN		Grimsby		
		Cabot Head		
	CATARACT	Manitoulin		
		Whirlpool		
		Queenston		
		Blue Mountain		
		Collingwood		
		Cobourg		
	TRENTON	Sherman Fall		
		Kirkfield		
PRECAMBRIAN	BLACK	Coboconk		
	RIVER	Gull River		
		Shadow Lake		

Additional geological contacts and intervals to be listed on reverse	
GEOLOGY FROM LOGS <input type="checkbox"/>	SAMPLES <input type="checkbox"/>
RESULTS	
OIL	m <sup>3</sup> /d
GAS	10 <sup>3</sup> m <sup>3</sup> /d
PRESSURE	kPag
PRODUCING INTERVAL(S)	
Dry hole	

[illegible]

# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL		STATUS: TYPE		Brine Mining	MODE	Suspended		
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT	24	CONC XI		
WELL NAME	Dow # 65			LICENCE NO.	T005553				
OPERATOR	1195714 Alberta Ltd.			TD: 748.5 m	TVD	m	PBTD: m		
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0			GROUND ELEV.	192.6 m	(above sea level)			
LAND OWNER	Pembina NGL Corporation			KB/RF ELEV.	196 m				
DRILLING CONTRACTOR				CABLE <input type="checkbox"/>	ROTARY <input checked="" type="checkbox"/>				
VERTICAL <input type="checkbox"/>	HORIZONTAL <input type="checkbox"/>	DIRECTIONAL <input type="checkbox"/>	DEEPENING <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	WORKOVER <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>			
GEOLOGIST				COORDINATES FROM 327.3 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE					
GEOLOGICAL CONTACTS				LOT BOUNDARIES 244.2 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> FROM LOT LINE					
Lake Level									
Drift/Lake Bottom									
Z I A N  D E V O N I A N  S I L U R I A N  O R D O V I C I A N	PORT LAMBTON			GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>					
	Kettle Point			Surface Latitude 42.89702583 Surf. Longitude -82.41020389					
	HAMILTON			Bottomhole Lat. 42.89702583 Bottomhole Long. -82.41020389					
	Marcellus			DATE DRILLING STARTED 81-03-02					
	Dundee			DATE DRILLING ENDED 81-03-11					
	DETROIT								
	RIVER								
	Lucas								
	Amherstburg								
	Bois Blanc								
Bass Islands				INITIAL GAS RECORD					
G unit shale				INTERVAL FLOW 1000 m <sup>3</sup> /d S.I. PRESSURE kPa					
F unit shale									
E unit carb.									
D unit salt									
C unit shale									
marker 574.0				INITIAL OIL RECORD					
B unit salt 579.0				INTERVAL FLOW m <sup>3</sup> /d API GRAVITY					
unhy. 672.0									
shale									
A2 unit salt 718.0				WATER RECORD					
unhy. 751.0				INTERVAL LEV.FR.SURF. TYPE					
A1 unit carb. evap.									
Guelph									
Eramosa									
Goat Island									
AMABEL Gasport									
Rochester									
Irondequoit				CASING AND TUBING RECORD					
Reynales				SIZE	WEIGHT	SET AT	HOW SET	REC	
Thorold				339.7 mm	81.1 kg/m	62.0 m	cemented	Good	
Grimsby				244.5 mm	53.7 kg/m	590.5 m	cemented	Good	
Cabot Head				177.8 mm	29.76 kg/m	640.0 m	hanging		
CATARACT Manitoulin									
Whirlpool				LOGGING RECORD					
Queenston				LOGGING CO. Computalog	LOGGER'S T.D. 749 m				
Blue Mountain				LOGGED INTERVAL	TYPE	LOGGED INTERVAL	TYPE		
Collingwood				748.5 - 0	G/N				
COBBOURG				748.5 - 0	Calper				
SHERMAN FALL				Sonarwire	Sonar				
Kirkfield									
BLACK COBOCONK									
Gull River									
Shadow Lake									
CAMBRIAN				CORING RECORD					
PRECAMBRIAN				SIZE					
Additional geological contacts and intervals to be listed on reverse				CORED INTERVAL	REC	ANAL	CORED INTERVAL	REC	ANAL
GEOLOGY FROM LOGS <input type="checkbox"/> SAMPLES <input type="checkbox"/>									
RESULTS									
OIL	m <sup>3</sup> /d			DISPOSITION OF CORE					
GAS	10 <sup>3</sup> m <sup>3</sup> /d			COMPLETION DATA					
PRESSURE	kPag			PERFORATED <input type="checkbox"/> OPEN HOLE <input type="checkbox"/>					
PRODUCING INTERVAL(S)				PRODUCING FORMATION(S)					
Dry hole				A2 Salt Production					
				COMPLETION DATE:					

For Department Use

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.  
 Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, deepening, workover, stimulation, plug-back or recasing.

Signature Patrick Mahoney Name Patrick Mahoney  
 Date December 14, 2014

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.

SAMPLE PROCESSING FEE CALCULATION	
Metres of bagged samples	X \$.90 =
Metres of vialled samples	X \$.60 =
Horiz metres of bagged samples	X \$.45 =
Horiz metres of vialled samples	X \$.30 =
Total (A)+(B)+(C)+(D)	
+ 5% GST	
Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust", GST Registration # 873160097	

Plugging Record - The plugging/plug-back method is to be described on Form 10 and attached hereto.

DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS		CEMENTING RECORD	
Formation	Top	Elevation	Surface - 8 Tonnes with 2% CaCl <sub>2</sub> Neat with no returns
			Grout - 30 sacks to surface
			Intermediate - 33 Tonnes Salt Saturated Neat good returns
			Workover 2007
			ran sonar log
			MIT
RECORD OF WELL TREATMENT AND STIMULATION		PACKER RECORD	
Treatment Date	Treatment No.	Test Type	Top Depth
			Base Depth
			Formation
			Treat Fluid
			Treat Amount
			Treat Pressure
			Frac Pressure
			Proppant Type
			Proppant Amt
RECORD OF PRODUCTION TESTING		RECORD OF DRILLSTEM TESTING	
Test Date	Test No.	Test Type	Test Company
			DST Type
			Top Depth
			Base Depth
			Formation
			Max gas rate
			Max oil rate
			Init Stat Pres
			Final Stat Pres
			Flow Pressure



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 24
WELL NAME	Dow # 66	LICENCE NO.	T005552	CONC	XI
OPERATOR	1195714 Alberta Ltd.	TD: 745.6 m	TVD	m	PBTD: m
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0	GROUND ELEV.	192.5 m	(above	
LAND OWNER	Pembina NGL Corporation	KB/RF ELEV.	196 m	sea level)	
DRILLING CONTRACTOR		CABLE	<input type="checkbox"/>	ROTARY	<input checked="" type="checkbox"/>
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>
DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>
OTHER	<input type="checkbox"/>				
GEOLOGIST					
GEOLOGICAL CONTACTS					
Lake Level					
Drift/Lake Bottom					
PORT LAMBTON					
Kettle Point					
HAMILTON					
Marcellus					
Dundee					
DETROIT					
Lucas					
RIVER					
Amherstburg					
Bois Blanc					
Bass Islands					
G unit shale					
F unit shale					
E unit carb.					
D unit salt					
C unit shale					
marker 573.0					
B unit salt 580.0					
anh. 669.0					
carb. 715.0					
shale 746.0					
anh. 715.0					
A2 unit salt 746.0					
anh. 746.0					
A1 unit carb.					
evap.					
Guelph					
Eramosa					
Goat Island					
AMABEL					
Gasport					
Rochester					
Irondequoit					
Reynales					
Thorold					
Grimsby					
Cabot Head					
CATARACT					
Manitoulin					
Whirlpool					
Queenston					
Blue Mountain					
Collingwood					
Cobourg					
TRENTON					
Sherman Fall					
Kirkfield					
BLACK					
Coboconk					
RIVER					
Gull River					
Shadow Lake					
CAMBRIAN					
PRECAMBRIAN					
Additional geological contacts and intervals to be listed on reverse					
GEOLOGY FROM LOGS					
SAMPLES					
RESULTS					
OIL					
GAS					
PRESSURE					
PRODUCING INTERVAL(S)					
Dry hole					
COORDINATES FROM 327.3 m.N					
LOT BOUNDARIES					
243 m.E					
GEOGRAPHIC COORDINATES					
NAD27					
NAD83					
Surface Latitude 42.89703944					
Surf. Longitude -82.41113722					
Bottomhole Lat. 42.89703944					
Bottomhole Long. -82.41113722					
DATE DRILLING STARTED 81-03-16					
DATE DRILLING ENDED 81-03-25					
INITIAL GAS RECORD					
INTERVAL					
FLOW 1000 m <sup>3</sup> /d					
S.I. PRESSURE kPa					
INITIAL OIL RECORD					
INTERVAL					
FLOW m <sup>3</sup> /d					
API GRAVITY					
WATER RECORD					
INTERVAL					
LEV.FR.SURF.					
TYPE					
CASING AND TUBING RECORD					
SIZE					
WEIGHT					
SET AT					
HOW SET					
REC					
339.7 mm					
81.1 kg/m					
61.0 m					
cemented					
Good					
244.5 mm					
53.7 kg/m					
592.0 m					
cemented					
Good					
177.8 mm					
29.76 kg/m					
700.0 m					
hanging					
LOGGING RECORD					
LOGGING CO. Computalog					
LOGGER'S T.D. 746 m					
LOGGED INTERVAL					
TYPE					
LOGGED INTERVAL					
TYPE					
748.0 - 0					
G/N					
748.0 - 0					
Calper					
CORING RECORD					
SIZE					
CORED INTERVAL					
REC					
ANAL					
CORED INTERVAL					
REC					
ANAL					
DISPOSITION OF CORE					
COMPLETION DATA					
PERFORATED					
OPEN HOLE					
PRODUCING FORMATION(S)					
A2 Salt Production					
COMPLETION DATE:					







# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended								
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 24	CONC	XI						
WELL NAME	Dow # 67			LICENCE NO.	T005218								
OPERATOR	1195714 Alberta Ltd.			TD: 750.0 m	TVD	m	PBDT: m						
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0			GROUND ELEV.	193.2 m	(above)							
LAND OWNER	Pembina NGL Corporation			KB/RF ELEV.	196.7 m	sea level)							
DRILLING CONTRACTOR													
CABLE <input type="checkbox"/> ROTARY <input checked="" type="checkbox"/>													
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>	DEEPENING	<input type="checkbox"/>						
RE-ENTRY <input type="checkbox"/> WORKOVER <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>													
GEOLOGIST													
GEOLOGICAL CONTACTS				TOP	TVD	ELEV.							
Lake Level													
Drift/Lake Bottom													
DEVONIAN	PORT LAMBTON												
	HAMILTON	Kettle Point											
		Marcellus											
		Dundee											
	DETROIT RIVER	Lucas											
		Amherstburg											
	Bois Blanc												
	Bass Islands												
	SILURIAN	CASSIDIPHAN	G unit	shale									
			F unit	shale									
			salt										
E unit			carb.										
D unit			salt										
C unit			shale										
BASS ISLANDS		B unit	marker	573.0									
			salt	576.0									
			anhy.										
			carb.	672.0									
ORDOVICIAN	AMABEL		shale										
		A2 unit	salt	715.0									
			anhy.	750.0									
		A1 unit	carb.										
		evap.											
	CATARACT	Guelph											
		Eramosa											
		Goat Island											
		Gasport											
		Rochester											
Irondequoit													
CASSIDIPHAN	Reynales												
	Thorold												
	Grimsby												
	Cabot Head												
	Manitoulin												
	Whirlpool												
	Queenston												
	Blue Mountain												
	Collingwood												
	TRENTON	Cobourg											
	Sherman Fall												
	Kirkfield												
BLACK RIVER	Coboconk												
	Gull River												
	Shadow Lake												
CASSIDIPHAN													
LOGGING RECORD													
LOGGING CO. Computalog				LOGGER'S T.D. 750 m									
LOGGED INTERVAL				TYPE		LOGGED INTERVAL		TYPE					
750 - 0				G/N									
750 - 0				Calper									
Sonarwire				Sonar									
CORING RECORD													
SIZE				CORED INTERVAL				REC		ANAL			
CORED INTERVAL				REC		ANAL		CORED INTERVAL		REC		ANAL	
PRECAMBRIAN				REC		ANAL		CORED INTERVAL		REC		ANAL	
Additional geological contacts and intervals to be listed on reverse													
GEOLOGY FROM LOGS <input type="checkbox"/> SAMPLES <input type="checkbox"/>													
RESULTS													
OIL				m <sup>3</sup> /d		DISPOSITION OF CORE							
GAS				10 <sup>3</sup> m <sup>3</sup> /d		COMPLETION DATA							
PRESSURE				kPag		PERFORATED <input type="checkbox"/>				OPEN HOLE <input type="checkbox"/>			
PRODUCING INTERVAL(S)				Dry hole		PRODUCING FORMATION(S)				A2 Salt Production			
						COMPLETION DATE:							



DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS			CEMENTING RECORD		
Formation	Top	Elevation	Surface - 8 Tonnes Kalicret with good returns		
			Intermediate - 32 Tonnes salt Saturated Neat, no returns		
			Grout - 5 Tonnes for returns		
			Workover 1991 repositioned mining string sonar log 2005		
			MIT		
RECORD OF WELL TREATMENT AND STIMULATION					
Treatment Date					
Treatment No.					
Treat. Type					
Top Depth					
Base Depth					
Formation					
Treat Fluid					
Treat Amount					
Treat Pressure					
Frac Pressure					
Proppant Type					
Proppant Amt					
RECORD OF PRODUCTION TESTING			RECORD OF DRILLSTEM TESTING		
Test Date			Test Date		
Test No.			Test No.		
Test Type			Test Company		
Top Depth			DST Type		
Base Depth			Top Depth		
Formation			Base Depth		
Max gas rate			Formation		
Max oil rate			Test Result Code		
Init Stat Pres					
Final Stat Pres					
Flow Pressure					

**Plugging Record** -The plugging/plug-back method is to be described on Form 10 and attached hereto.


Remarks

#### SAMPLE PROCESSING FEE CALCULATION

\*Payment must accompany this form.

Metres of bagged samples	x \$ .90 =	(A)	Fees for drill core will be invoiced
Metres of vial samples	x \$ .60 =	(B)	
Horiz metres of bagged samples	x \$ .45 =	(C)	
Horiz metres of vial samples	x \$ .30 =	(D)	
Total (A)+(B)+(C)+(D) _____ + 5% GST _____ = \$ _____			
Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust" , GST Registration # 873160097			

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.



Patrick Mahoney  
Name

December 14, 2014  
Date

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

For Department Use



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01


CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 24 CONC XI
WELL NAME	Dow # 68	LICENCE NO.	T005217		
OPERATOR	1195714 Alberta Ltd.	TD: 751.0 m	TVD	m	PBD: m
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0	GROUND ELEV.	193.2 m		(above
LAND OWNER	Pembina NGL Corporation	KB/RF ELEV.	196.7 m		sea level)
DRILLING CONTRACTOR		CABLE	<input type="checkbox"/>	ROTARY	<input checked="" type="checkbox"/>
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>
DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>
OTHER	<input type="checkbox"/>				
GEOLOGIST					
GEOLOGICAL CONTACTS	TOP	TVD	ELEV.	COORDINATES FROM	434.4 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE
Lake Level				LOT BOUNDARIES	354.8 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> FROM LOT LINE
Drift/Lake Bottom					
PORT LAMBTON				GEOGRAPHIC COORDINATES	NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>
Kettle Point				Surface Latitude	42.89605167 Surf. Longitude -82.40888861
HAMILTON				Bottomhole Lat.	42.89605167 Bottomhole Long. -82.40888861
Marcellus				DATE DRILLING STARTED	81-02-15
Dundee				DATE DRILLING ENDED	81-02-24
DETROIT					
Lucas					
RIVER					
Ankerburg					
Bois Blanc					
Bass Islands					
G unit	shale				
F unit	shale				
E unit	carb.				
D unit	carb.				
C unit	shale				
marker		574.0			
B unit	carb.	579.0			
anhy.					
carb.		672.0			
shale					
A2 unit	carb.	714.5			
anhy.		749.5			
A1 unit	carb.				
evap.					
Guelph					
Eramosa					
Goat Island					
Gasport					
Rochester					
Irondequoit					
Reynolds					
Thorold					
Grimsby					
Cabot Head					
Manitoulin					
Whirlpool					
Queenston					
Blue Mountain					
Collingwood					
Cobourg					
Sherman Fall					
Kirkfield					
Coboconk					
Gull River					
Shadow Lake					
CAMBRIAN					
PRECAMBRIAN					
Additional geological contacts and intervals to be listed on reverse					
GEOLOGY FROM LOGS	<input type="checkbox"/>	SAMPLES	<input type="checkbox"/>		
RESULTS					
OIL		m <sup>3</sup> /d			
GAS		10 <sup>3</sup> m <sup>3</sup> /d			
PRESSURE		kPag			
PRODUCING INTERVAL(S)					
Dry hole					
DISPOSITION OF CORE					
COMPLETION DATA					
PERFORATED	<input type="checkbox"/>	OPEN HOLE	<input type="checkbox"/>		
PRODUCING FORMATION(S)					
A2 Salt Production					
COMPLETION DATE:					

DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS			CEMENTING RECORD		
Formation	Top	Elevation	Surface - 8 Tonnes with 2% CaCl2 Neat with good returns		
			Intermediate - 33 Tonnes Salt Saturated Kalicrete, good returns		
			Grout - 1 Tonnes		
			Workover		
			MIT		
<b>RECORD OF WELL TREATMENT AND STIMULATION</b>					
Treatment Date					
Treatment No.					
Treat Type					
Top Depth					
Base Depth					
Formation					
Treat Fluid					
Treat Amount					
Treat Pressure					
Frac Pressure					
Proppant Type					
Proppant Amt					
<b>RECORD OF PRODUCTION TESTING</b>			<b>RECORD OF DRILLSTEM TESTING</b>		
Test Date			Test Date		
Test No.			Test No.		
Test Type			Test Company		
Top Depth			DST Type		
Base Depth			Top Depth		
Formation			Base Depth		
Max gas rate			Formation		
Max oil rate			Test Result Code		
Init Stat Pres					
Final Stat Pres					
Flow Pressure					

**Plugging Record** -The plugging/plug-back method is to be described on Form 10 and attached hereto.  
 Remarks \_\_\_\_\_

SAMPLE PROCESSING FEE CALCULATION		*Payment must accompany this form.	
Metres of bagged samples	_____ x \$.90 = _____ (A)	Fees for drill core will be invoiced	
Metres of viald samples	_____ x \$.60 = _____ (B)		
Horiz metres of bagged samples	_____ x \$.45 = _____ (C)		
Horiz metres of viald samples	_____ x \$.30 = _____ (D)		
Total (A)+(B)+(C)+(D) _____ + 5% GST _____ = \$ _____			
Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust" , GST Registration # 873160097			

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.

 Signature	<u>Patrick Mahoney</u> Name	<u>December 14, 2014</u> Date
--	--------------------------------	----------------------------------

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

For Department Use

## Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS		FIELD OR POOL		STATUS: TYPE		Brine Mining		MODE		Suspended	
COUNTY		Lambton		TOWNSHIP		Moore		TRACT		LOT 24 CONC XI	
WELL NAME						Dow Chemical Canada Inc. No. 69					
OPERATOR						1195714 Alberta Ltd.					
ADDRESS						4391 Highway 40, Corunna, Ontario N0N 1G0					
LAND OWNER						Pembina NGL Corporation					
DRILLING CONTRACTOR						CABLE <input type="checkbox"/> ROTARY <input checked="" type="checkbox"/>					
VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> DEEPENING <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> WORKOVER <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>											
GEOLOGIST											
GEOLOGICAL CONTACTS						COORDINATES FROM 641.5 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE					
Lake Level						LOT BOUNDARIES					
Drift/Lake Bottom						246.6 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> FROM LOT LINE					
PORT LAMBTON						GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>					
Kettle Point						Surface Latitude 42.89511167 Surf. Longitude -82.41025306					
HAMILTON						Bottomhole Lat. Bottomhole Long. -82.41025306					
Marcellus						DATE DRILLING STARTED 82-01-18					
Dundee						DATE DRILLING ENDED 82-08-30					
DETROIT											
Lucas											
RIVER											
Amherstburg											
Bois Blanc											
Bass Islands											
G unit shale											
F unit salt						N/A					
E unit carb.											
D unit salt						549.0					
C unit shale						564.0					
marker						580.0					
B unit salt						591.0					
anhy.						N/A					
carb.						677.0					
shale											
A2 unit salt						716.5					
anhy.						750.0					
A1 unit carb.											
evap.											
Guelph						N/A					
Eramosa											
Goat Island											
Gasport											
Rochester											
Irondequoit											
Reynales						339.7 mm 81.1 kg/m 64.0 m cemented Good					
Thorold						244.5 mm 53.7 kg/m 589.6 m cemented Good					
Grimsby											
Cabot Head											
CATARACT											
Manitoulin											
Whirlpool											
TRENTON											
Queenston						LOGGING CO. Computalog					
Blue Mountain						LOGGER'S T.D. 750 m					
Collingwood						LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE					
Cobourg						750-0 GR N. N					
Sherman Fall						Sonarwire Sonar					
Kirkfield											
BLACK RIVER											
Coboconk											
Gulf River											
Shadow Lake											
CAMBRIAN											
PRECAMBRIAN											
Additional geological contacts and intervals to be listed on reverse											
GEOLOGY FROM LOGS <input type="checkbox"/> SAMPLES <input type="checkbox"/>						N/A					
RESULTS											
OIL						DISPOSITION OF CORE					
GAS						COMPLETION DATA					
PRESSURE						PERFORATED <input type="checkbox"/> OPEN HOLE <input type="checkbox"/>					
PRODUCING INTERVAL(S)						PRODUCING FORMATION(S)					
Dry hole						COMPLETION DATE:					
Salina Salt Production											





# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL		STATUS: TYPE		Brine Mining	MODE	Suspended							
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT	24	CONC	XI						
WELL NAME	Dow Chemical Canada Inc. No. 70			LICENCE NO.	T005782									
OPERATOR	1195714 Alberta Ltd.			TD: 749	m	TVD	m	PSTD: m						
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0			GROUND ELEV.	192.6 m		(above							
LAND OWNER	Pembina NGL Corporation			KB/RF ELEV.	196.4 m		sea level)							
DRILLING CONTRACTOR				CABLE	<input type="checkbox"/>	ROTARY	<input checked="" type="checkbox"/>							
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>	DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>	
GEOLOGIST														
GEOLOGICAL CONTACTS				TOP	TVD	ELEV.	COORDINATES FROM		541.5	m.N	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	FROM LOT LINE
Lake Level							LOT BOUNDARIES							
Drift/Lake Bottom									170.4	m.E	<input checked="" type="checkbox"/>	W	<input type="checkbox"/>	FROM LOT LINE
DEVONIAN	PORT LAMBTON						GEOGRAPHIC COORDINATES		NAD27	<input type="checkbox"/>	NAD83	<input checked="" type="checkbox"/>		
	Kettle Point			64.5			Surface Latitude		42.89512528	Surf. Longitude		-82.41117528		
	HAMILTON						Bottomhole Lat.		42.89512528	Bottomhole Long.		-82.41117528		
	Marcellus						DATE DRILLING STARTED		82-01-04					
	Dundee						DATE DRILLING ENDED		82-08-30					
	DETROIT													
	RIVER													
	Lucas													
	Amherstburg													
	Bois Blanc													
SILURIAN	Bass Islands						INTERVAL		FLOW 1000 m³/d		S.I. PRESSURE kPa			
	G unit shale						N/A							
	F unit shale													
	salt													
	E unit carb.													
	D unit salt			548.0										
	C unit shale			563.5										
	marker			580.0										
	B unit salt			590.5										
	anhy.													
	carb.			676.5										
	shale													
	A2 unit salt			716.0										
	anhy.			749.0										
	carb.													
	evap.													
	Guelph						N/A							
	Eramosa													
	Goat Island													
	Gasport													
Rochester														
Irondequoit														
Reynolds						SIZE	WEIGHT	SET AT	HOW SET	REC				
Thorold						338.7 mm	81.1 kg/m	64.0 m	cemented	Good				
Grimsby						244.5 mm	53.7 kg/m	591.2 m	cemented	Good				
Cabot Head														
CATARACT														
Manitoulin														
Whirlpool														
Queens														
TRENTON														
SHERMAN FALL														
KIRKFIELD														
BLACK RIVER														
COCOCONK														
GULL RIVER														
SHADOW LAKE														
CAMBRIAN														
PRECAMBRIAN														
Additional geological contacts and intervals to be listed on reverse														
GEOLOGY FROM LOGS			<input type="checkbox"/>	SAMPLES	<input type="checkbox"/>									
RESULTS														
OIL				m³/d	DISPOSITION OF CORE									
GAS				10³ m³/d	COMPLETION DATA									
PRESSURE				kPag	PERFORATED				<input type="checkbox"/>	OPEN HOLE		<input type="checkbox"/>		
PRODUCING INTERVAL(S)			Dry Hole			PRODUCING FORMATION(S)								
			Salina Salt Production											
			COMPLETION DATE:											

For Department Use





# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01

CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspende								
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 23	CONC	XI						
WELL NAME	Dow Chemical Canada Inc. No. 71			LICENCE NO.	T005783								
OPERATOR	1195714 Alberta Ltd.			TD: 749	m	TVD	m	PBDT: m					
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0			GROUND ELEV.	192.5 m (above								
LAND OWNER	Pembina NGL Corporation			KB/RF ELEV.	196 m sea level)								
DRILLING CONTRACTOR				CABLE	<input type="checkbox"/>	ROTARY	<input checked="" type="checkbox"/>						
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>	DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>
GEOLOGIST													
GEOLOGICAL CONTACTS													
Lake Level													
Drift/Lake Bottom													
COORDINATES FROM 328.8 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE													
LOT BOUNDARIES													
86.6 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> FROM LOT LINE													
GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>													
Surface Latitude 42.89691528 Surf. Longitude -82.40567316													
Bottomhole Lat. 42.89691528 Bottomhole Long. -82.40567316													
DATE DRILLING STARTED 81-12-01													
DATE DRILLING ENDED 81-12-11													
INITIAL GAS RECORD													
INTERVAL FLOW 1000 m <sup>3</sup> /d S.I. PRESSURE kPa													
N/A													
INITIAL OIL RECORD													
INTERVAL FLOW m <sup>3</sup> /d API GRAVITY													
N/A													
WATER RECORD													
INTERVAL LEV.FR.SURF. TYPE													
N/A													
Casing and Tubing Record													
SIZE WEIGHT SET AT HOW SET REC													
339.7 mm 81.1 kg/m 84.0 m cemented Good													
244.5 mm 53.7 kg/m 592.0 m cemented Good													
Logging Record													
LOGGING CO. LOGGER'S T.D. N/A m													
LOGGED INTERVAL TYPE LOGGED INTERVAL TYPE													
750-0 GR N. N													
Sonarwire Sonar													
Coring Record													
SIZE													
CORED INTERVAL REC ANAL CORED INTERVAL REC ANAL													
N/A													
RESULTS													
OIL m <sup>3</sup> /d													
GAS 10 <sup>3</sup> m <sup>3</sup> /d													
PRESSURE kPag													
DISPOSITION OF CORE													
PERFORATED <input type="checkbox"/> OPEN HOLE <input type="checkbox"/>													
PRODUCING INTERVAL(S) Dry hole													
Salina Salt Production													
COMPLETION DATA													
COMPLETION DATE:													



DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS			CEMENTING RECORD		
Formation	Top	Elevation	Surface - 9 Tonnes Neat with 2% CaCl <sub>2</sub>		
			Intermediate - 33 Tonnes Kalcrete Salt Saturated		
			Grout - 1.3 Tonnes		
			Workover - October 2010 removed 177.8 mm hanging string installed API 3000# wellhead sonar log 2005		
			MIT		
RECORD OF WELL TREATMENT AND STIMULATION					
Treatment Date					
Treatment No.					
Treat. Type					
Top Depth					
Base Depth					
Formation					
Treat Fluid					
Treat Amount			Type	Size	Depth
Treat Pressure					
Frac Pressure					
Proppant Type					
Proppant Amt					
RECORD OF PRODUCTION TESTING			RECORD OF DRILLSTEM TESTING		
Test Date			Test Date		
Test No.			Test No.		
Test Type			Test Company		
Top Depth			DST Type		
Base Depth			Top Depth		
Formation			Base Depth		
Max gas rate			Formation		
Max oil rate			Test Result Code		
Init Stat Pres					
Final Stat Pres					
Flow Pressure					

**Plugging Record** - The plugging/plug-back method is to be described on Form 10 and attached hereto.

Remarks

#### SAMPLE PROCESSING FEE CALCULATION

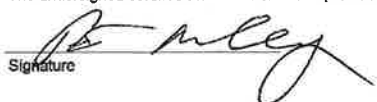
\*Payment must accompany this form.

Metres of bagged samples	x \$ .90 =	(A)	Fees for drill core will be invoiced
Metres of vialled samples	x \$ .60 =	(B)	
Horiz metres of bagged samples	x \$ .45 =	(C)	
Horiz metres of vialled samples	x \$ .30 =	(D)	

Total (A)+(B)+(C)+(D) + 5% GST = \$

Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust", GST Registration # 873160097

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.



Patrick Mahoney  
Name

December 14, 2014  
Date

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

For Department Use



# Drilling and Completion Report

To the Minister of Natural Resources

Form 7

v. 2008-01-01


CLASS	FIELD OR POOL	STATUS: TYPE	Brine Mining	MODE	Suspended
COUNTY	Lambton	TOWNSHIP	Moore	TRACT	LOT 23 CONC XI
WELL NAME	Dow Chemical Canada Inc. No. 72		LICENCE NO.	T005784	
OPERATOR	1195714 Alberta Ltd.		TD: 748.5 m	TVD	m PBTD: m
ADDRESS	4391 Highway 40, Corunna, Ontario N0N 1G0		GROUND ELEV.	199 m	(above
LAND OWNER	Pembina NGL Corporation		KB/RF ELEV.	199.3 m	sea level)
DRILLING CONTRACTOR			CABLE	ROTARY	<input checked="" type="checkbox"/>
VERTICAL	<input type="checkbox"/>	HORIZONTAL	<input type="checkbox"/>	DIRECTIONAL	<input type="checkbox"/>
DEEPENING	<input type="checkbox"/>	RE-ENTRY	<input type="checkbox"/>	WORKOVER	<input checked="" type="checkbox"/>
OTHER	<input type="checkbox"/>				
GEOLOGIST			COORDINATES FROM 328.3 m.N <input type="checkbox"/> S <input checked="" type="checkbox"/> FROM LOT LINE		
GEOLOGICAL CONTACTS			LOT BOUNDARIES 10.4 m.E <input checked="" type="checkbox"/> W <input type="checkbox"/> FROM LOT LINE		
Lake Level					
Drift/Lake Bottom					
DEVONIAN	PORT LAMBTON		GEOGRAPHIC COORDINATES NAD27 <input type="checkbox"/> NAD83 <input checked="" type="checkbox"/>		
	Kettle Point	63.0	Surface Latitude 42.89692417 Surf. Longitude -82.40659944		
	HAMILTON		Bottomhole Lat. 42.89692417 Bottomhole Long. -82.40659944		
	Marcellus		DATE DRILLING STARTED 81-11-16		
	Dundee		DATE DRILLING ENDED 81-11-27		
	DETROIT	Lucas			
	RIVER	Amherstburg			
	Bois Blanc				
	Bass Islands				
	G unit shale				
F unit shale					
E unit carb.					
D unit salt	548.0				
C unit shale	561.0				
marker	580.0				
B unit salt	590.0				
anh.					
carb.	669.0				
shale					
A2 unit salt	715.0				
anh.	748.0				
A1 unit carb.					
evap.					
SILURIAN	Guelph				
	Eramosa				
	Goat Island				
	Gasport				
	Rochester				
	Irondequoit				
	Reynolds				
	Thorold				
	Grimsby				
	Cabot Head				
ORDOVICIAN	Manitoulin				
	Whirlpool				
	Queenston				
	Blue Mountain				
	Collingwood				
	Cobourg				
	Sherman Fall				
	Kirkfield				
	Black River				
	Shadow Lake				
CAMBRIAN					
PRECAMBRIAN					
Additional geological contacts and intervals to be listed on reverse					
GEOLOGY FROM LOGS	<input type="checkbox"/>	SAMPLES	<input type="checkbox"/>		
RESULTS					
OIL		m <sup>3</sup> /d	DISPOSITION OF CORE		
GAS		10 <sup>3</sup> m <sup>3</sup> /d	COMPLETION DATA		
PRESSURE		kPag	PERFORATED <input type="checkbox"/> OPEN HOLE <input type="checkbox"/>		
PRODUCING INTERVAL(S) Dry hole			PRODUCING FORMATION(S)		
Salina Salt Production			COMPLETION DATE:		

DRILLER'S LOG OR ADDITIONAL GEOLOGICAL CONTACTS			CEMENTING RECORD		
Formation	Top	Elevation	Surface - 9 Tonnes Neat with 2% CaCl <sub>2</sub>		
			Intermediate - 33 Tonnes Kalcrete Salt Saturated		
			Grout - 1.1 Tonnes		
			Workover - February 2011		
			removed 177 mm hanging string		
			installed API 3000# wellhead		
			MIT		
RECORD OF WELL TREATMENT AND STIMULATION					
Treatment Date					
Treatment No.					
Treat. Type					
Top Depth					
Base Depth					
Formation					
Treat Fluid					
Treat Amount			Type	Size	Depth
Treat Pressure					
Frac Pressure					
Proppant Type					
Proppant Amt					
RECORD OF PRODUCTION TESTING			RECORD OF DRILLSTEM TESTING		
Test Date			Test Date		
Test No.			Test No.		
Test Type			Test Company		
Top Depth			DST Type		
Base Depth			Top Depth		
Formation			Base Depth		
Max gas rate			Formation		
Max oil rate			Test Result Code		
Init Stat Pres					
Final Stat Pres					
Flow Pressure					

**Plugging Record** - The plugging/plug-back method is to be described on Form 10 and attached hereto.  
Remarks \_\_\_\_\_

SAMPLE PROCESSING FEE CALCULATION		*Payment must accompany this form.	
Metres of bagged samples	_____ x \$ .90 = _____ (A)	Fees for drill core will be invoiced	
Metres of vialled samples	_____ x \$ .60 = _____ (B)		
Horiz metres of bagged samples	_____ x \$ .45 = _____ (C)		
Horiz metres of vialled samples	_____ x \$ .30 = _____ (D)		
Total (A)+(B)+(C)+(D) _____ + 5% GST _____ = \$ _____			
Cheque for sample processing fee is payable to "Oil, Gas and Salt Resources Trust" , GST Registration # 873160097			

The undersigned certifies that the information provided herein is complete and accurate and that he/she has authority to bind the operator.

Signature  Patrick Mahoney December 14, 2014  
Name Date

Note 1: The well name shall be that name which appears on Form 2 and shall not be changed without approval by the Minister.

Note 2: This form is to be forwarded to the Ministry within sixty days after the end of boring, drilling, deepening, workover, stimulation, plug-back or recasing.

For Department Use