

Appendix L

Well Cards all of Pembina's Suspended Brine Mining Caverns

CTY: Lambton		TWP: Moore	TRACT: 5	LOT: 24	CON: XII
WELL NAME: DOW #45		WELL ID: T003426		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1972-05-12	N/S BOUND: 687.30 S	TRAY: 8120
GRND ELEV: 189.60	SPUD DATE:	E/W BOUND: 406.00 E	POOL
KB ELEV: 193.20	TD DATE: 1972-05-29	NAD 83	
TVD: 761.08 PBTD:	COMPLETE DATE:	SURF LAT: 42.90581333 SURF LONG: -82.40880833	
	WORKOVER DATE: 2007-04-24	BOT LAT: 42.90581333 BOT LONG: -82.40880833	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.60	3.60	189.60
Top of Bedrock	42.06	42.06	151.14
Kettle Point	42.06	42.06	151.14
Hamilton Group	87.80	87.80	105.40
Dundee	173.70	173.70	19.50
Lucas	198.10	198.10	-4.90
Amherstburg	294.40	294.40	-101.20
Bois Blanc	332.20	332.20	-139.00
Bass Islands/Bertie	356.90	356.90	-163.70
G Unit	416.70	416.70	-223.50
F Unit	424.30	424.30	-231.10
E Unit	528.20	528.20	-335.00
D Unit	554.70	554.70	-361.50
C Unit	564.80	564.80	-371.60
B Unit	581.30	581.30	-388.10
B Salt	588.60	588.60	-395.40
A-2 Carbonate	679.10	679.10	-485.90
A-2 Shale	716.60	716.60	-523.40
A-2 Salt	730.30	730.30	-537.10
<i>Geology by Operator</i>			

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 443.70	Vertilog - casing inspection log	Baker Hughes
0.10 - 757.40	Gamma Ray Neutron	Birdwell
0.10 - 757.40	Caliper	Birdwell
61.00 - 756.50	Temperature	Birdwell
426.72 - 602.59	Dual Induction Spherically Focussed Laterolog	Weatherford
445.00 - 757.40	Density (Formation)	Birdwell
594.97 - 637.03	Sonar	Sonarwire

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
405.89	65.49	65.80	CEM
297.94	69.90	443.80	CEM
218.95	35.70	751.30	HWP

CTY: Lambton		TWP: Moore	TRACT: 1	LOT: 25	CON: XI
WELL NAME: Dow H.C. No. 7		WELL ID: T003916		CLASS: LPG	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: LPG - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1974-12-06	N/S BOUND: 317.00 S	TRAY: 4161
GRND ELEV: 191.40	SPUD DATE:	E/W BOUND: 346.60 E	POOL
KB ELEV: 196.00	TD DATE: 1975-12-16	NAD 83	
TVD: 673.60 PBTD:	COMPLETE DATE:	SURF LAT: 42.89731944 SURF LONG: -82.41759778	
	WORKOVER DATE:	BOT LAT: 42.89731944 BOT LONG: -82.41759778	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	4.60	4.60	191.40
Top of Bedrock	47.70	47.70	148.30
Kettle Point	47.70	47.70	148.30
Hamilton Group	103.60	103.60	92.40
Dundee	188.70	188.70	7.30
Lucas	225.20	225.20	-29.20
Amherstburg	303.90	303.90	-107.90
Bois Blanc	340.80	340.80	-144.80
Bass Islands/Bertie	366.40	366.40	-170.40
G Unit	418.80	418.80	-222.80
F Unit	425.20	425.20	-229.20
E Unit	524.30	524.30	-328.30
D Unit	550.50	550.50	-354.50
C Unit	560.50	560.50	-364.50
B Unit	576.40	576.40	-380.40
B Salt	582.50	582.50	-386.50
B Anhydrite	672.40	672.40	-476.40

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.10 - 583.70	Gamma Ray Neutron	Birdwell
6.10 - 563.90	Cement Bond	Birdwell
61.00 - 583.70	Caliper	Birdwell
563.88 - 635.81	Density (Formation)	Computalog
563.90 - 673.30	Gamma Ray Neutron	Birdwell
566.93 - 633.98	Pulsed Neutron	Atlas
566.93 - 633.95	Pulsed Neutron	Atlas
573.02 - 633.68	Pulsed Neutron	Atlas

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
405.89	65.49	63.10	CEM
324.10	80.41	580.30	CEM
13.72	20.11	658.37	HAN
114.05	20.80	658.40	HAN

CTY: Lambton		TWP: Moore	TRACT: 4	LOT: 25	CON: XI
WELL NAME: Dow H.C. No. 8		WELL ID: T003917		CLASS: LPG	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: LPG - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1974-12-06	N/S BOUND: 469.40 S	TRAY:
GRND ELEV: 191.40	SPUD DATE:	E/W BOUND: 346.60 E	POOL
KB ELEV: 196.00	TD DATE: 1975-11-26	NAD 83	
TVD: 674.20 PBDT:	COMPLETE DATE:	SURF LAT: 42.89593278 SURF LONG: -82.41765083	
	WORKOVER DATE:	BOT LAT: 42.89593278 BOT LONG: -82.41765083	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	4.60	4.60	191.40
Top of Bedrock	44.20	44.20	151.80
Kettle Point	44.20	44.20	151.80
Hamilton Group	103.60	103.60	92.40
Dundee	188.10	188.10	7.90
Lucas	227.40	227.40	-31.40
Amherstburg	305.10	305.10	-109.10
Bois Blanc	340.20	340.20	-144.20
Bass Islands/Bertie	368.50	368.50	-172.50
G Unit	417.60	417.60	-221.60
F Unit	424.00	424.00	-228.00
E Unit	522.40	522.40	-326.40
D Unit	549.90	549.90	-353.90
C Unit	559.60	559.60	-363.60
B Unit	574.20	574.20	-378.20
B Salt	581.90	581.90	-385.90
B Anhydrite	671.80	671.80	-475.80
A-2 Carbonate	671.80	671.80	-475.80

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
	Within 20 metres	Well Records (1954 to 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
-	Sonar	
0.00 - 581.86	Gamma Ray Neutron	Great Guns
0.10 - 581.90	Gamma Ray Neutron	Birdwell
6.10 - 672.10	Cement Bond	Birdwell
61.00 - 581.90	Caliper	Birdwell
579.10 - 673.00	Gamma Ray Neutron	Birdwell

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
405.89	65.49	63.10	CEM
324.10	80.41	581.30	CEM
323.85		581.90	CEM
218.95	35.70	648.00	HAN
139.70	23.10	649.20	HAN
139.95	20.80	664.50	HAN

CTY: Lambton		TWP: Moore	TRACT: 1	LOT: 24	CON: XI
WELL NAME: DOW #61		WELL ID: T005210		CLASS: DEV	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1980-02-18	N/S BOUND: 113.20 S	TRAY:
GRND ELEV: 191.90	SPUD DATE:	E/W BOUND: 316.00 E	POOL
KB ELEV: 197.40	TD DATE: 1980-07-17	NAD 83	
TVD: 753.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89894972 SURF LONG: -82.41016833	
	WORKOVER DATE:	BOT LAT: 42.89894972 BOT LONG: -82.41016833	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	5.50	5.50	191.90
Hamilton Group	97.00	97.00	100.40
Marcellus	165.00	165.00	32.40
Dundee	182.90	182.90	14.50
Lucas	214.00	214.00	-16.60
Amherstburg	291.10	291.10	-93.70
Bois Blanc	349.00	349.00	-151.60
Bass Islands/Bertie	363.00	363.00	-165.60
G Unit	418.50	418.50	-221.10
F Unit	425.00	425.00	-227.60
E Unit	477.50	477.50	-280.10
D Unit	552.60	552.60	-355.20
C Unit	562.20	562.20	-364.80
B Unit	577.20	577.20	-379.80
B Salt	584.00	584.00	-386.60
A-2 Carbonate	674.30	674.30	-476.90
A-2 Shale	709.40	709.40	-512.00
A-2 Salt	722.20	722.20	-524.80
Geology by Operator			

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
1.00 - 752.90	Gamma Ray Neutron	Great Guns
1.00 - 752.90	Density (Formation)	Great Guns
25.00 - 753.00	Caliper	Great Guns
579.12 - 656.54	Density (Formation)	Computalog
579.12 - 639.81	Pulsed Neutron	Atlas

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
340.11	90.79	59.70	CEM
245.11	53.60	59.80	
178.05	29.79	740.50	HAN
114.05	14.20	749.00	HAN

CTY: Lambton		TWP: Moore	TRACT: 2	LOT: 24	CON: XI
WELL NAME: DOW #62		WELL ID: T005211		CLASS: DEV	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1980-02-18	N/S BOUND: 113.20 S	TRAY: 7239-40
GRND ELEV: 192.20	SPUD DATE:	E/W BOUND: 240.70 E	POOL
KB ELEV: 195.70	TD DATE: 1980-07-06	NAD 83	
TVD: 752.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89895917 SURF LONG: -82.41108556	
	WORKOVER DATE:	BOT LAT: 42.89895917 BOT LONG: -82.41108556	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	192.20
Kettle Point	66.00	66.00	129.70
Hamilton Group	95.00	95.00	100.70
Dundee	183.00	183.00	12.70
Lucas	22.00	22.00	173.70
Amherstburg	290.00	290.00	-94.30
Bois Blanc	344.00	344.00	-148.30
Bass Islands/Bertie	359.00	359.00	-163.30
G Unit	398.00	398.00	-202.30
F Unit	416.00	416.00	-220.30
E Unit	525.00	525.00	-329.30
D Unit	555.00	555.00	-359.30
C Unit	567.00	567.00	-371.30
B Unit	579.00	579.00	-383.30
B Salt	594.00	594.00	-398.30
B Anhydrite	672.00	672.00	-476.30
A-2 Carbonate	672.00	672.00	-476.30
A-2 Shale	708.00	708.00	-512.30
A-2 Salt	722.70	722.70	-527.00

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
1.00 - 752.00	Caliper	Great Guns
500.00 - 752.00	Gamma Ray Neutron	Great Guns
588.26 - 619.35	Pulsed Neutron	Atlas

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
340.11	90.79	62.50	CEM
245.11	53.60	597.50	CEM
178.05	29.79	739.70	HAN
114.05	14.20	745.50	HAN

CTY: Lambton		TWP: Moore	TRACT: 4	LOT: 24	CON: XI
WELL NAME: DOW #68		WELL ID: T005217		CLASS: DEV	
OPERATOR: 1195714 Alberta Ltd.		Target: SIL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1980-02-18	N/S BOUND: 434.40 S	TRAY: 7217
GRND ELEV: 193.20	SPUD DATE:	E/W BOUND: 354.80 E	POOL
KB ELEV: 196.70	TD DATE: 1981-02-24	NAD 83	
TVD: 751.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89605167 SURF LONG: -82.40888861	
	WORKOVER DATE:	BOT LAT: 42.89605167 BOT LONG: -82.40888861	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	193.20
Kettle Point	60.90	60.90	135.80
Hamilton Group	98.00	98.00	98.70
Dundee	183.00	183.00	13.70
Lucas	207.00	207.00	-10.30
Amherstburg	291.00	291.00	-94.30
Bois Blanc	351.00	351.00	-154.30
Bass Islands/Bertie	366.30	366.30	-169.60
G Unit	414.00	414.00	-217.30
F Unit	423.00	423.00	-226.30
E Unit	512.50	512.50	-315.80
D Unit	551.00	551.00	-354.30
C Unit	563.00	563.00	-366.30
B Unit	573.50	573.50	-376.80
B Salt	579.90	579.90	-383.20
A-2 Carbonate	671.30	671.30	-474.60
A-2 Shale	707.60	707.60	-510.90
A-2 Salt	719.80	719.80	-523.10

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
575.00 - 751.00	Gamma Ray Neutron	Computalog
575.00 - 751.00	Caliper	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
340.11	81.10	62.00	CEM
245.11	53.60	592.00	CEM
178.05	30.00	749.10	HAN

CTY: Lambton		TWP: Moore	TRACT: 4	LOT: 24	CON: XI
WELL NAME: DOW #67		WELL ID: T005218		CLASS: DEV	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1980-02-18	N/S BOUND: 434.40 S	TRAY: 7218
GRND ELEV: 193.20	SPUD DATE:	E/W BOUND: 430.80 E	POOL
KB ELEV: 196.70	TD DATE: 1981-02-13	NAD 83	
TVD: 750.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89603917 SURF LONG: -82.40795278	
	WORKOVER DATE:	BOT LAT: 42.89603917 BOT LONG: -82.40795278	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	193.20
Top of Bedrock	43.00	43.00	153.70
Kettle Point	43.00	43.00	153.70
Hamilton Group	96.90	96.90	99.80
Marcellus	164.00	164.00	32.70
Dundee	181.90	181.90	14.80
Lucas	204.00	204.00	-7.30
Amherstburg	293.00	293.00	-96.30
Bois Blanc	346.50	346.50	-149.80
Bass Islands/Bertie	359.00	359.00	-162.30
G Unit	415.00	415.00	-218.30
F Unit	422.10	422.10	-225.40
E Unit	532.20	532.20	-335.50
D Unit	548.40	548.40	-351.70
C Unit	558.40	558.40	-361.70
B Unit	572.60	572.60	-375.90
B Salt	579.10	579.10	-382.40
A-2 Carbonate	672.20	672.20	-475.50
A-2 Shale	706.70	706.70	-510.00
A-2 Salt	717.70	717.70	-521.00

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 584.00	Gamma Ray	Atlas
1.00 - 750.00	Gamma Ray Neutron	Computalog
1.00 - 750.00	Caliper	Computalog
579.12 - 660.20	Pulsed Neutron	Atlas
609.60 - 659.89	Density (Formation)	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
340.11	81.10	61.90	CEM
245.11	53.60	591.40	CEM
178.05	29.79	747.20	HAN

CTY: Lambton		TWP: Moore	TRACT: 2	LOT: 24	CON: XI
WELL NAME: DOW #66		WELL ID: T005552		CLASS: NPW	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1981-02-16	N/S BOUND: 327.30 S	TRAY: 4032
GRND ELEV: 192.50	SPUD DATE:	E/W BOUND: 243.00 E	POOL
KB ELEV: 196.00	TD DATE: 1981-03-25	NAD 83	
TVD: 745.60 PBTD:	COMPLETE DATE:	SURF LAT: 42.89703944 SURF LONG: -82.41113722	
	WORKOVER DATE:	BOT LAT: 42.89703944 BOT LONG: -82.41113722	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	192.50
Top of Bedrock	39.50	39.50	156.50
Kettle Point	39.50	39.50	156.50
Hamilton Group	96.00	96.00	100.00
Dundee	179.00	179.00	17.00
Lucas	229.00	229.00	-33.00
Amherstburg	294.00	294.00	-98.00
Bois Blanc	327.00	327.00	-131.00
Bass Islands/Bertie	366.00	366.00	-170.00
G Unit	417.00	417.00	-221.00
F Unit	424.00	424.00	-228.00
E Unit	452.00	452.00	-256.00
D Unit	492.00	492.00	-296.00
C Unit	534.00	534.00	-338.00
B Unit	572.80	572.80	-376.80
B Salt	580.10	580.10	-384.10
B Anhydrite	666.80	666.80	-470.80
A-2 Carbonate	668.90	668.90	-472.90
A-2 Shale	704.20	704.20	-508.20
A-2 Salt	718.90	718.90	-522.90
A-2 Anhydrite	744.00	744.00	-548.00
Geology by Operator			

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 589.50	Casing Inspection Tool	Baker Hughes
0.00 - 585.00	Vertilog - casing inspection log	Atlas
0.00 - 585.00	Gamma Ray	Atlas
0.00 - 585.00	Casing Collar Locator	Atlas
0.00 - 585.00	Cement Bond/Variable Density	Atlas
1.00 - 748.00	Gamma Ray Neutron	Computalog
1.00 - 748.00	Caliper	Computalog
563.88 - 612.65	Density (Formation)	Weatherford

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
340.11	81.10	61.00	CEM
244.09	53.60	592.00	CEM
178.05	29.79	743.00	HAN

CTY: Lambton		TWP: Moore	TRACT: 1	LOT: 24	CON: XI
WELL NAME: DOW #65		WELL ID: T005553		CLASS: NPW	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1981-02-16	N/S BOUND: 327.30 S	TRAY: 3169
GRND ELEV: 192.60	SPUD DATE:	E/W BOUND: 244.20 E	POOL
KB ELEV: 196.00	TD DATE: 1981-03-11	NAD 83	
TVD: 748.50 PBTD:	COMPLETE DATE:	SURF LAT: 42.89702583 SURF LONG: -82.41020389	
	WORKOVER DATE:	BOT LAT: 42.89702583 BOT LONG: -82.41020389	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.40	3.40	192.60
Kettle Point	60.50	60.50	135.50
Hamilton Group	98.00	98.00	98.00
Marcellus	153.00	153.00	43.00
Dundee	171.00	171.00	25.00
Lucas	220.00	220.00	-24.00
Amherstburg	288.00	288.00	-92.00
Bass Islands/Bertie	339.00	339.00	-143.00
G Unit	416.00	416.00	-220.00
F Unit	422.60	422.60	-226.60
E Unit	525.50	525.50	-329.50
D Unit	549.00	549.00	-353.00
C Unit	554.40	554.40	-358.40
B Unit	573.70	573.70	-377.70
B Salt	581.10	581.10	-385.10
A-2 Carbonate	671.90	671.90	-475.90
A-2 Shale	705.40	705.40	-509.40
A-2 Salt	718.50	718.50	-522.50
A-2 Anhydrite	745.50	745.50	-549.50
A-1 Carbonate	748.50	748.50	-552.50

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 584.50	Vertilog - casing inspection log	Atlas
0.00 - 584.50	Gamma Ray	Atlas
0.00 - 584.50	Casing Collar Locator	Atlas
0.00 - 584.50	Cement Bond/Variable Density	Atlas
0.00 -	Casing Inspection Tool	Baker Hughes
75.00 - 748.50	Caliper	Computalog
375.00 - 748.50	Gamma Ray Neutron	Computalog
548.64 - 653.49	Density (Formation)	Weatherford
563.88 - 612.65	Density (Formation)	Weatherford
591.31 - 644.35	Sonar	Sonarwire
606.55 - 658.83	Density (Formation)	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
340.11	81.10	62.00	CEM
245.11	52.99	593.70	CEM
178.05	29.79	740.60	HAN

CTY: Lambton		TWP: Moore	TRACT: 4	LOT: 24	CON: XI
WELL NAME: DOW CHEMICAL CANADA INC.#69		WELL ID: T005781		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1981-10-27	N/S BOUND: 541.50 S	TRAY: 3179
GRND ELEV: 193.40	SPUD DATE:	E/W BOUND: 246.60 E	POOL
KB ELEV: 196.90	TD DATE: 1982-01-28	NAD 83	
TVD: 749.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89511167 SURF LONG: -82.41025306	
	WORKOVER DATE:	BOT LAT: 42.89511167 BOT LONG: -82.41025306	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	193.40
Top of Bedrock	44.60	44.60	152.30
Kettle Point	44.60	44.60	152.30
Hamilton Group	100.30	100.30	96.60
Dundee	184.90	184.90	12.00
Lucas	213.80	213.80	-16.90
Amherstburg	268.00	268.00	-71.10
Bois Blanc	349.00	349.00	-152.10
Bass Islands/Bertie	355.00	355.00	-158.10
G Unit	416.60	416.60	-219.70
F Unit	423.00	423.00	-226.10
E Unit	455.00	455.00	-258.10
D Unit	549.00	549.00	-352.10
C Unit	559.00	559.00	-362.10
B Unit	574.00	574.00	-377.10
B Salt	580.80	580.80	-383.90
B Anhydrite	672.20	672.20	-475.30
A-2 Carbonate	672.50	672.50	-475.60
A-2 Shale	708.00	708.00	-511.10
A-2 Salt	719.10	719.10	-522.20

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
	Within 20 metres	Well Records (1954 to 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 750.50	Gamma Ray Neutron	Computalog
0.00 - 750.50	Caliper	Computalog
579.12 - 660.20	Density (Formation)	Computalog
606.55 - 656.23	Gamma Ray	Atlas

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
339.60	81.10	64.00	CEM
244.60	52.99	593.20	CEM
177.80	29.76	733.00	HAN
114.30	14.14	740.00	HAN

CTY: Lambton	TWP: Moore	TRACT: 3	LOT: 24	CON: XI
WELL NAME: Dow Chemical Canada Inc. No. 70			WELL ID: T005782	CLASS: SM
OPERATOR: 1195714 Alberta Ltd.	Target: SAL		STATUS: SM - SUS	

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1981-10-27	N/S BOUND: 541.50 S	TRAY:
GRND ELEV: 192.90	SPUD DATE:	E/W BOUND: 170.40 E	POOL
KB ELEV: 196.40	TD DATE: 1982-01-14	NAD 83	
TVD: 749.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89512528 SURF LONG: -82.41117528	
	WORKOVER DATE:	BOT LAT: 42.89512528 BOT LONG: -82.41117528	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	192.90
Top of Bedrock	43.00	43.00	153.40
Kettle Point	43.00	43.00	153.40
Hamilton Group	100.10	100.10	96.30
Dundee	184.60	184.60	11.80
Lucas	213.80	213.80	-17.40
Amherstburg	307.30	307.30	-110.90
Bois Blanc	349.00	349.00	-152.60
Bass Islands/Bertie	383.00	383.00	-186.60
G Unit	415.90	415.90	-219.50
F Unit	422.20	422.20	-225.80
E Unit	454.00	454.00	-257.60
D Unit	558.10	558.10	-361.70
C Unit	558.10	558.10	-361.70
B Unit	573.20	573.20	-376.80
B Salt	580.20	580.20	-383.80
B Anhydrite	669.00	669.00	-472.60
A-2 Carbonate	672.50	672.50	-476.10
A-2 Shale	707.30	707.30	-510.90
A-2 Salt	718.80	718.80	-522.40

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag

INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag

WATER RECORD INTERVAL	STATIC LEVEL	TYPE

LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 749.00	Gamma Ray Neutron	Computalog
0.00 - 738.00	Gamma Ray Neutron	Computalog
579.12 - 654.86	Density (Formation)	Computalog
594.36 - 648.00	Casing Collar Locator	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
339.60	81.10	64.00	CEM
244.60	52.99	594.70	CEM
177.80	29.76	733.00	HAN
114.30	14.14	740.00	HAN

CTY: Lambton		TWP: Moore	TRACT: 2	LOT: 23	CON: XI
WELL NAME: Dow Chemical Canada Inc. No. 71		WELL ID: T005783		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1981-10-27	N/S BOUND: 328.30 S	TRAY: 3226
GRND ELEV: 192.50	SPUD DATE:	E/W BOUND: 86.60 E	POOL
KB ELEV: 196.00	TD DATE: 1981-12-11	NAD 83	
TVD: 749.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89691528 SURF LONG: -82.40567361	
	WORKOVER DATE:	BOT LAT: 42.89691528 BOT LONG: -82.40567361	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	192.50
Top of Bedrock	42.50	42.50	153.50
Kettle Point	42.50	42.50	153.50
Hamilton Group	93.20	93.20	102.80
Dundee	178.30	178.30	17.70
Lucas	268.00	268.00	-72.00
Amherstburg	301.00	301.00	-105.00
Bois Blanc	345.00	345.00	-149.00
Bass Islands/Bertie	354.00	354.00	-158.00
G Unit	413.70	413.70	-217.70
F Unit	420.00	420.00	-224.00
E Unit	524.60	524.60	-328.60
D Unit	547.50	547.50	-351.50
C Unit	557.50	557.50	-361.50
B Unit	572.30	572.30	-376.30
B Salt	579.80	579.80	-383.80
A-2 Carbonate	670.00	670.00	-474.00
A-2 Shale	705.50	705.50	-509.50
A-2 Salt	718.30	718.30	-522.30
A-2 Anhydrite	745.70	745.70	-549.70

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
-	Sonar	Sonarwire
0.00 - 749.30	Gamma Ray Neutron	Computalog
0.00 - 749.30	Caliper	Computalog
580.64 - 654.71	Pulsed Neutron	Atlas
594.36 - 664.16	Density (Formation)	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
339.60	81.10	64.00	
244.60	52.99	592.00	

CTY: Lambton		TWP: Moore	TRACT: 2	LOT: 23	CON: XI
WELL NAME: Dow Chemical Canada Inc. No. 72		WELL ID: T005784		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1981-10-27	N/S BOUND: 328.30 S	TRAY: 1736
GRND ELEV: 199.01	SPUD DATE:	E/W BOUND: 10.40 E	POOL
KB ELEV: 199.31	TD DATE: 1981-11-27	NAD 83	
TVD: 748.50 PBTD:	COMPLETE DATE:	SURF LAT: 42.89692417 SURF LONG: -82.40659944	
	WORKOVER DATE:	BOT LAT: 42.89692417 BOT LONG: -82.40659944	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	0.30	0.30	199.01
Top of Bedrock	42.50	42.50	156.81
Kettle Point	42.50	42.50	156.81
Dundee	179.10	179.10	20.21
Bass Islands/Bertie	360.00	360.00	-160.69
C Unit	557.40	557.40	-358.09
B Unit	572.50	572.50	-373.19
B Salt	580.00	580.00	-380.69
A-2 Carbonate	669.60	669.60	-470.29
A-2 Shale	706.20	706.20	-506.89
A-2 Salt	718.40	718.40	-519.09
A-2 Anhydrite	746.90	746.90	-547.59
<i>Geology by Operator</i>			

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 748.50	Caliper	Computalog
0.00 - 748.50	Gamma Ray Neutron	Computalog
50.00 - 592.80	Caliper	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
339.60	81.10	64.00	CEM
244.60	52.99	592.50	CEM

CTY: Lambton		TWP: Moore	TRACT: 3	LOT: 25	CON: XI
WELL NAME: Dow HC #10		WELL ID: T006620		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1984-10-25	N/S BOUND: 611.40 S	TRAY: 923
GRND ELEV: 196.60	SPUD DATE:	E/W BOUND: 454.70 W	POOL
KB ELEV: 197.00	TD DATE: 1984-12-27	NAD 83	
TVD: 666.50 PBTD:	COMPLETE DATE:	SURF LAT: 42.89460833 SURF LONG: -82.41998972	
	WORKOVER DATE:	BOT LAT: 42.89460833 BOT LONG: -82.41998972	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	0.40	0.40	196.60
Top of Bedrock	46.60	46.60	150.40
Kettle Point	46.60	46.60	150.40
Hamilton Group	105.10	105.10	91.90
Dundee	190.00	190.00	7.00
Lucas	213.40	213.40	-16.40
Amherstburg	311.30	311.30	-114.30
Bois Blanc	355.20	355.20	-158.20
Bass Islands/Bertie	374.00	374.00	-177.00
G Unit	416.70	416.70	-219.70
F Unit	423.40	423.40	-226.40
E Unit	448.50	448.50	-251.50
D Unit	475.60	475.60	-278.60
C Unit	559.60	559.60	-362.60
B Unit	575.50	575.50	-378.50
B Salt	582.30	582.30	-385.30

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 610.20	Gamma Ray Neutron	Computalog
0.00 - 610.20	Caliper	Computalog
50.00 - 580.00	Cement Bond	Computalog
525.00 - 666.50	Gamma Ray Neutron	Computalog
563.88 - 658.37	Density (Formation)	Computalog
563.88 - 657.85	Pulsed Neutron	Atlas
609.60 - 652.88	Density (Formation)	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
508.00	158.40	92.00	CEM
339.09	90.70	572.00	CEM
218.95	35.70	660.00	HAN
138.94	20.80	663.00	

CTY: Lambton		TWP: Moore	TRACT: 3	LOT: 25	CON: XI
WELL NAME: Dow HC #9		WELL ID: T006622		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1984-10-26	N/S BOUND: 611.40 S	TRAY: 3279
GRND ELEV: 191.30	SPUD DATE:	E/W BOUND: 595.00 W	POOL
KB ELEV: 196.70	TD DATE: 1985-01-21	NAD 83	
TVD: 665.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89464722 SURF LONG: -82.42187250	
	WORKOVER DATE:	BOT LAT: 42.89464722 BOT LONG: -82.42187250	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	5.40	5.40	191.30
Top of Bedrock	46.60	46.60	150.10
Kettle Point	46.60	46.60	150.10
Hamilton Group	104.20	104.20	92.50
Dundee	189.80	189.80	6.90
Lucas	223.40	223.40	-26.70
Amherstburg	297.30	297.30	-100.60
Bois Blanc	342.40	342.40	-145.70
Bass Islands/Bertie	366.30	366.30	-169.60
G Unit	416.30	416.30	-219.60
F Unit	422.80	422.80	-226.10
F Salt	446.80	446.80	-250.10
E Unit	523.00	523.00	-326.30
D Unit	549.80	549.80	-353.10
C Unit	560.40	560.40	-363.70
B Unit	575.90	575.90	-379.20
B Salt	583.00	583.00	-386.30

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 600.00	Cement Bond	Computalog
0.00 - 584.50	Gamma Ray Neutron	Computalog
550.00 - 662.00	Gamma Ray Neutron	Computalog
579.12 - 650.14	Gamma Ray	Atlas
594.36 - 650.14	Density (Formation)	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
508.00	158.40	91.00	
339.09	90.70	579.00	
218.95	35.70	597.00	
138.94	20.80	660.00	

CTY: Lambton		TWP: Moore	TRACT: 3	LOT: 25	CON: XI
WELL NAME: Dow HC #11		WELL ID: T006807		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1985-06-06	N/S BOUND: 611.40 S	TRAY: 1330
GRND ELEV: 191.63	SPUD DATE:	E/W BOUND: 304.80 W	POOL
KB ELEV: 195.10	TD DATE: 1985-08-22	NAD 83	
TVD: 670.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89457333 SURF LONG: -82.41817250	
	WORKOVER DATE:	BOT LAT: 42.89457333 BOT LONG: -82.41817250	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	191.60
Top of Bedrock	46.00	46.00	149.10
Kettle Point	46.00	46.00	149.10
Dundee	187.00	187.00	8.10
B Unit	570.00	570.00	-374.90
B Salt	580.00	580.00	-384.90

Geology by Operator

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
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Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
339.60	71.40	93.00	
244.60	53.50	577.00	
177.80	29.70	663.00	
114.30	14.09	668.00	

CTY: Lambton		TWP: Moore	TRACT: 4	LOT: 25	CON: XI
WELL NAME: Dow HC #12		WELL ID: T006809		CLASS: SM	
OPERATOR: 1195714 Alberta Ltd.		Target: SAL	STATUS: SM - SUS		

DRILLING DATA	DATES	COORDINATES	SAMPLES
RIG TYPE:	LICENCE ISSUED: 1985-06-06	N/S BOUND: 611.40 S	TRAY: 8315
GRND ELEV: 191.60	SPUD DATE:	E/W BOUND: 152.40 W	POOL
KB ELEV: 195.10	TD DATE: 1985-09-14	NAD 83	
TVD: 672.00 PBTD:	COMPLETE DATE:	SURF LAT: 42.89454722 SURF LONG: -82.41630722	
	WORKOVER DATE:	BOT LAT: 42.89454722 BOT LONG: -82.41630722	
	PLUG DATE:		

FORMATION	TOP	TVD	ELEV
Drift	3.50	3.50	191.60
Top of Bedrock	44.21	44.21	150.89
Kettle Point	44.20	44.20	150.90
Hamilton Group	100.00	100.00	95.10
Dundee	186.20	186.20	8.90
Lucas	234.00	234.00	-38.90
Amherstburg	293.80	293.80	-98.70
Bois Blanc	352.00	352.00	-156.90
Bass Islands/Bertie	362.00	362.00	-166.90
G Unit	414.70	414.70	-219.60
F Unit	421.60	421.60	-226.50
F Salt	446.20	446.20	-251.10
E Unit	519.20	519.20	-324.10
D Unit	547.00	547.00	-351.90
C Unit	557.00	557.00	-361.90
B Unit	572.00	572.00	-376.90
B Equivalent	578.40	578.40	-383.30
B Salt	590.10	590.10	-395.00
A-2 Carbonate	668.20	668.20	-473.10
Geology by Operator			

LOCATION COMMENTS		
DATE	ACCURACY	METHOD OBTAINED
2007-01-31	Within 1 metre	Survey Drawing (post 1997)

INITIAL GAS INTERVAL	FLOW 1000 m3/dM	SIP kPag
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INITIAL OIL INTERVAL	FLOW m3/d	SIP kPag
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WATER RECORD INTERVAL	STATIC LEVEL	TYPE
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LOGGING RECORD INTERVAL	TYPE	COMPANY
0.00 - 587.50	Gamma Ray Neutron	Computalog
0.00 - 587.50	Caliper	Computalog
550.00 - 672.50	Gamma Ray Neutron	Computalog
550.00 - 672.50	Caliper	Computalog
566.93 - 658.46	Pulsed Neutron	Atlas
579.00 - 672.50	Cement Bond	Computalog
594.36 - 660.81	Density (Formation)	Computalog
600.00 - 662.80	Density (Formation)	Computalog
608.38 - 658.46	Pulsed Neutron	Atlas
609.60 - 664.16	Density (Formation)	Computalog

Casing O.D. (mm)	Weight (kg/m)	Setting Depth (m)	How Set
339.60	90.70	92.00	
244.60	53.50	577.00	
177.80	29.70	662.00	
114.30	14.09	668.00	