

# EXPLORATION PLAN

**CINDY BILSKY**

**SML 090015**

PLAN SHOWING EXPLORATION  
HOLE LOCATIONS AND EXTENT  
OF GRAVEL DEPOSIT

LAND LOCATION  
NW & NE of Section 2  
Twp 88 Rge 01 W5M

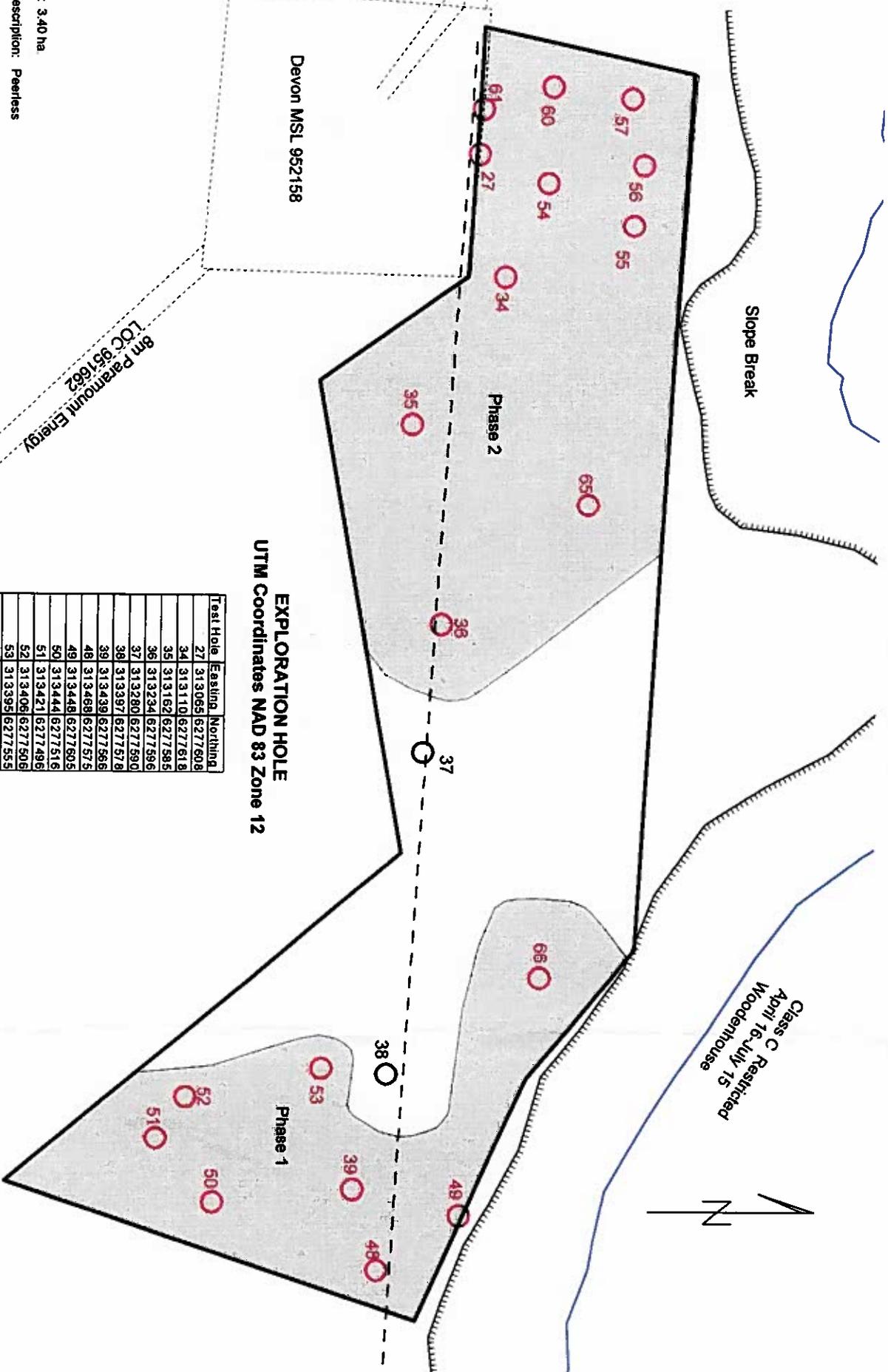
## LEGEND

-  DEPOSIT AREA
-  SLOPE BREAK
-  SML BOUNDARY
-  EXISTING SURFACE DISPOSITIONS  
VEGETATION (Treed Areas)
-  EXPLORATION HOLES (Gravel > 1.0m)
-  EXPLORATION HOLES (Gravel < 1.0m)
-  EXPLORATION HOLES (Sand)
-  EXPLORATION HOLES (No Gravel)

PLAN SCALE: 1:2000



Drawn by: Normand Menard RPP  
Lac La Biche, AB. 780-623-3800  
DATE: June 8, 2010



EXPLORATION HOLE  
UTM Coordinates NAD 83 Zone 12

Test Hole	Easting	Northing
27	313065	6277608
34	313110	6277618
35	313162	6277585
36	313234	6277596
37	313280	6277590
38	313397	6277579
39	313439	6277566
48	313468	6277575
49	313448	6277605
50	313444	6277516
51	313421	6277486
52	313406	6277506
53	313395	6277555
54	313075	6277633
55	313091	6277663
56	313069	6277667
57	313045	6277662
60	313041	6277634
61	313049	6277609
65	313191	6277648
66	313361	6277633

NOTES:  
 Extraction Area: 340 ha  
 General Area Description: Peerless  
 General Land Class: Green Zone  
 Forest Management Unit: S11 Lesser Slave  
 Method of Data Capture: Ground Measured (Test Holes)  
 Coordinate System: UTM Nad 83 Zone 12  
 Base Data: Alberta Township System March 2005

SME # 080048

SML # Cindy Bilsky 2-88-1-5

SML 0900015

## Layer Depths by Test Hole

Test Hole	Phase	Top Soil Depth (m)	Sub Soil Depth (m)	Over Burden Depth (m)	Gravel Product Depth (m)	Sand Product Depth (m)	Clay Product Depth (m)	% Gravel
27	1	0.10	0.10		1.30	4.00		80%
34	1	0.10	0.10		3.00	1.80		40%
35	1	0.20	0.10	2.70	2.50	0.50		80%
36	1	0.10	0.10		0.80		4.00	65%
37	1	0.10	0.10			0.80		
38	2	0.10	0.10			0.40		
39	2	0.20	0.10		1.70			70%
48	2	0.20	0.10		0.70			80%
49	2	0.20	0.10		1.50		3.00	80%
50	2	0.20	0.10		0.50			60%
51	2	0.20	0.10		0.90			70%
52	2	0.10	0.10		0.80			30%
53	2	0.10	0.10		0.80			70%
54	1	0.10	0.10		5.80			80%
55	1	0.20	0.10	0.60	1.50	0.60	2.00	80%
56	1	0.20	0.10		4.70		1.00	80%
57	1	0.20	0.10		2.70			80%
59	1	0.20	0.10			0.70		
60	1	0.20	0.10		1.20			80%
61	1	0.20	0.10		2.20			70%
65	1	0.20	0.10		2.20			70%
66	2	0.20	0.10		2.50		1.20	80%

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## Average Depths by Phase

Phase	Average Topsoil Depth (m)	Average Subsoil Depth (m)	Average Overburden Depth (m)	Average Gravel Product Depth (m)	Average Sand Product Depth (m)	Average Clay Product Depth (m)	Average % Rock Product	Average % Product Fines
1	0.16	0.10	0.25	2.15	0.65	0.54	73%	27%
2	0.17	0.10	-	1.04	0.04	0.47	68%	33%
3								
4								
5								
Average	0.16	0.10	0.13	1.60	0.35	0.50	70%	30%

## Volumes by Phase

Phase	Extraction Area (ha)	Operating Area (ha) (stripping)	Topsoil (m3)	Subsoil (m3)	Overburden Vol (m3)	Gross Gravel Product (m3)	Sand Product (m3)	Clay Product (m3)	Gravel Net Rock (m3)	Gravel Fines (m3)
1	2.12	2.67	4,313	2,670	5,382	45,498	13,698	11,415	33,297	12,202
2	1.28	2.14	3,567	2,140	-	13,369	569	5,973	9,024	4,345
3										
4										
5										
Totals	3.40	4.81	7,880	4,810	5,382	58,867	14,267	17,389	42,321	16,547





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## Layer Depths by Test Hole

Test Hole	Phase	Top Soil Depth (m)	Sub Soil Depth (m)	Over Burden Depth (m)	Gravel Product Depth (m)	Sand Product Depth (m)	Clay Product Depth (m)	% Gravel
27	2	0.10	0.10		1.30	4.00		80%
34	2	0.10	0.10		3.00	1.80		40%
35	2	0.20	0.10	2.70	2.50	0.50		80%
36	2	0.10	0.10		0.80		4.00	65%
37		0.10	0.10			0.80		
38		0.10	0.10			0.40		
39	1	0.20	0.10		1.70			70%
48	1	0.20	0.10		0.70			80%
49	1	0.20	0.10		1.50		3.00	80%
50	1	0.20	0.10		0.50			60%
51	1	0.20	0.10		0.90			70%
52	1	0.10	0.10			0.80		
53	1	0.10	0.10		0.80			70%
54	2	0.10	0.10		5.80			80%
55	2	0.20	0.10	0.60	1.50	0.60	2.00	80%
56	2	0.20	0.10		4.70		1.00	80%
57	2	0.20	0.10		2.70			80%
60	2	0.20	0.10		1.20			80%
61	2	0.20	0.10		2.20			70%
65	2	0.20	0.10		2.20			70%
66	1	0.20	0.10		2.50		1.20	80%

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## Average Depths by Phase

Phase	Average Topsoil Depth (m)	Average Subsoil Depth (m)	Average Overburden Depth (m)	Average Gravel Product Depth (m)	Average Sand Product Depth (m)	Average Clay Product Depth (m)	Average % Rock Product	Average % Product Fines
1	0.18	0.10	-	1.08	0.10	0.53	73%	27%
2	0.16	0.10	0.30	2.54	0.63	0.64	73%	27%
Average	0.17	0.10	0.15	1.81	0.36	0.58	73%	27%

## Volumes by Phase

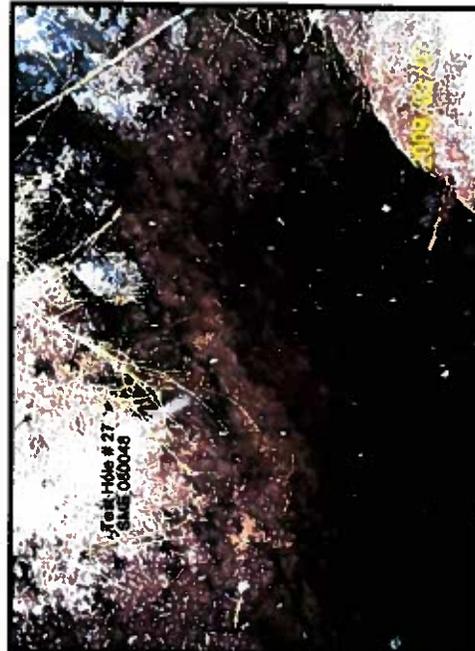
Phase	Extraction Area (ha)	Stripping Area (ha)	Topsoil (m3)	Subsoil (m3)	Overburden Vol (m3)	Gross Gravel Product (m3)	Sand Product (m3)	Clay Product (m3)	Gravel Net Rock (m3)	Gravel Fines (m3)
1	1.28	1.80	3,150	1,800	-	13,760	1,280	6,720	10,025	3,735
2	2.12	2.44	3,993	2,440	6,360	53,771	13,298	13,491	39,351	14,420
Totals	3.40	4.24	7,143	4,240	6,360	67,531	14,578	20,211	49,376	18,155

## Area Table

Phase	Lease Area (ha)	Operating Area (ha)	Stripping Area (ha)	Extraction Area (ha)
1	2.14	2.14	1.80	1.28
2	2.67	2.67	2.44	2.12
Reserves	0.00	0.00	0.00	0.00
Totals	4.81	4.81	4.24	3.40



Test Hole # 27  
SME 080048



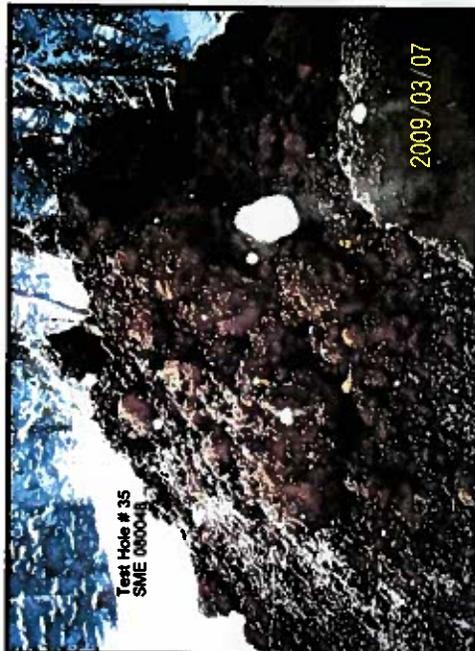
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SME 080048



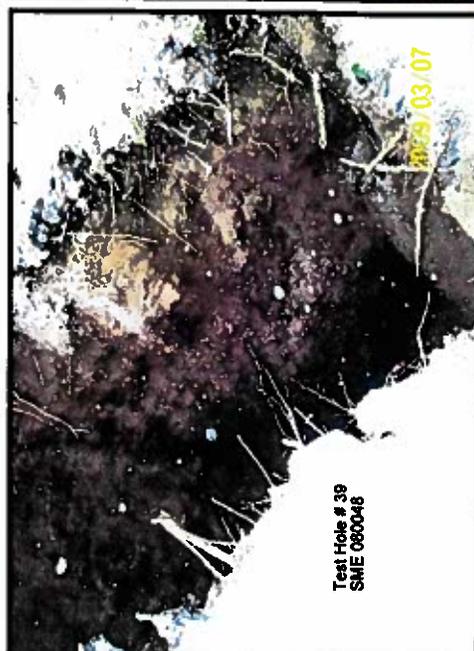
Test Hole # 34  
SME 080048



Test Hole # 35  
SME 080048



Test Hole # 35  
SME 080048



Test Hole # 39  
SME 080048



Test Hole # 48  
SME 080048



Test Hole # 49  
SME 080048



Test Hole # 49  
SME 080048

