

2013-2014 RECLAMATION SURETY BOND ESTIMATE
WDEQ Permit No. 687 Annual Report / NRC SUA-1548
Gas Hills ISR Project - Cameco Resources

Part I. Building Demolition and Disposal

Building & Other Miscellaneous Demolition and Disposal	Carol Shop	Tire Shop	Change House	Air Comp Building	Water Treat Building	BaCl Building
I. Demolition Costs						
A. Building (Tanks)						
Volume of Building (ft ³)	1,977,851	54,560	18,600	6,240	6,600	6,600
<u>Demolition Cost</u>	\$0.316	\$0.316	\$0.316	\$0.316	\$0.316	\$0.316
Subtotal Building Demolition Costs	\$624,408	\$17,225	\$5,872	\$1,970	\$2,084	\$2,084
B. Concrete Floor						
Area of Concrete Floor (ft ²)	56,985	2,480	1,860	520	600	864
<u>Demolition Cost</u>	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03
Subtotal Concrete Floor Demolition Costs	\$343,506	\$14,949	\$11,212	\$3,135	\$3,617	\$5,208
C. Concrete Footing						
Length of Concrete Footing (ft)	1,221	204	184	48	60	48
<u>Demolition Cost</u>	\$22.23	\$22.23	\$22.23	\$22.23	\$22.23	\$22.23
Subtotal Concrete Footing Demolition Costs	\$27,144	\$4,535	\$4,091	\$1,067	\$1,334	\$1,067
Subtotal Demolition Costs per Building	\$995,058	\$36,709	\$21,175	\$6,172	\$7,035	\$8,359
Total Demolition Costs	\$1,074,508					
II. Disposal Costs						
A. Building						
Volume of Building (cy)	48,838	2,021	689	231	244	244
Off-Site County Landfill						
Percentage (%)	100	100	100	100	100	100
Total Volume for Disposal - Incl. 33% Factor (cy)	16,117	667	227	76	81	81
<u>Disposal Cost, Landfill (cy)</u>	\$42.17	\$42.17	\$42.17	\$42.17	\$42.17	\$42.17
Subtotal County Facility Off-Site Disposal Costs	\$679,585	\$28,119	\$9,586	\$3,216	\$3,401	\$3,401
B. Concrete Floor						
Area of Concrete Floor (ft ²)	56,985	2,480	1,860	520	600	864
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft ³)	42,739	1,860	1,395	390	450	648
Volume of Concrete Floor (cy)	1,583	69	52	14	17	24
1. On-Site Concrete Disposal						
Percentage (%)	100	100	100	100	100	100
Volume for Disposal (cy)	1,583	69	52	14	17	24
<u>Concrete Disposal On Site (cy)</u>	\$9.12	\$9.12	\$9.12	\$9.12	\$9.12	\$9.12
Subtotal County Facility Off-Site Disposal Costs	\$14,435	\$628	\$471	\$132	\$152	\$219
Subtotal Concrete Floor Disposal Costs	\$14,435	\$628	\$471	\$132	\$152	\$219
C. Concrete Footing						
Length of Concrete Footing (ft)	1,221	204	184	48	60	48
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4
Average Width of Concrete Footing (ft)	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Footing (ft ³)	3663	612	552	144	180	144
Volume of Concrete Footing (cy)	136	23	20	5	7	5
<u>Concrete Disposal On Site (cy)</u>	\$9.12	\$9.12	\$9.12	\$9.12	\$9.12	\$9.12
Subtotal Concrete Footing Disposal Costs	\$1,237	\$207	\$186	\$49	\$61	\$49
Subtotal Disposal Costs per Building	\$709,692	\$29,582	\$10,714	\$3,529	\$3,766	\$3,888
Total Disposal Costs	\$761,171					

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Part II - Well and Drill Hole Abandonment

I. Well Abandonment		Water Wells	Misc Wells
A. Sealing Costs			
Total # of Wells per Wellfield		2	54
Well Average Depth (ft)		1600	451
<u>Well Abandonment (Sealing) Costs (\$/ft)</u>		\$3.30	\$3.30
Subtotal Sealing Costs per Wellfield		\$10,560	\$80,368
B Casing Removal and Disposal Costs			
Total # of Wells per Wellfield		2	54
Total # of Wells for Casing Removal and Disposal		2	54
<u>Remove and Dispose Casing (\$/well)</u>		\$33	\$33
Subtotal Casing Removal and Disposal Costs per Wellfield		\$99	\$1,881
Subtotal Well Abandonment Costs per Wellfield		\$10,659	\$82,249
C. Incidental Costs			
1 <u>Remove Pump, Wiring, and Drop Pipe</u>		\$0.44	\$0.44
Subtotal Removal of Pump, Wiring, and Drop Pipe		\$1,056.00	\$0.00
2 <u>Monitoring Well Concrete Pedestal Disposal</u>		\$110	\$110
Subtotal Monitoring Well Concrete Pedestal Disposal		\$0	\$5,940
Subtotal Incidental Costs		\$1,056.00	\$5,940.00
	Subtotal Well Abandonment Costs	\$22,275	\$168,557
	Total Well Abandonment Costs	\$190,832	
II. Drill Hole Abandonment			
A. Drill Hole Plug and Abandonment			
# of Projected Drill Holes		0	
<u>Hole Abandonment (\$/ft)</u>		\$3.30	
Subtotal Plug and Abandonment Costs		\$0	
B. Incidental Costs			
<u>Mobilization</u>		\$1,000	
Total # of Drill Holes		0	
<u>Site Location (\$/hole)</u>		\$11	
<u>Capping (\$/hole)</u>		\$11	
<u>Small Site Grading and Seeding (\$/site)</u>		\$55	
Subtotal Incidental Costs		\$1,000	
C. Subsurface Retained Abandonment Cost			
Plugged and Abandoned Boreholes - \$50 per hole per B. Wood (2009)	22	\$50	\$1,100
Plugged and Abandoned Boreholes - \$150 hole per B. Wood (2010)	26	\$150	\$3,900
Plugged and Abandoned Boreholes - \$150 hole per B. Wood (2011)	37	\$150	\$5,550
Subtotal Subsurface Retained Abandonment Cost		\$10,550	
	Total Delineation Hole Abandonment	\$11,550	
III. Waste Disposal Well Abandonment			
A. Well Sealing		DDW #1	DDW #2
Total Depth of Well (feet)		3794	5389

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<u>Sealing cost per foot (in UIC permit)</u>	\$13.62	\$13.62
Subtotal Plugging Costs per Well (in UIC permit)	\$51,674	\$73,398
B. Pump Dismantling and Decontamination		
Number of Persons	2	2
Number of Pumps	2	2
Pumps/Day	0.5	0.5
Number of Days	4	4
<u>\$/Day/Person</u>	\$291.20	\$291.20
Subtotal Dismantling and Decon Costs per Well	\$2,329.60	\$2,329.60
C. Tubing String Disposal (C&D Landfill)		
Length of Tubing String (ft)	3400	5100
Diameter of Tubing String (inches)	2.875	2.875
Volume of Tubing String (ft ³)	79	119
<u>Transportation and Disposal Unit Cost (\$/ft³)</u>	\$1.56	\$1.56
Subtotal Tubing String Disposal Costs per Well	\$123.64	\$185.47
	\$54,127.52	\$75,913.25
Total Waste Disposal Well Abandonment Costs	\$130,041	
Total Well and Drill Hole Abandonment	\$332,423	