

Results of Monte Carlo Simulation

Run probabilistic analysis on key cost and technical parameters to best- and worst-case scenarios, as well as understand factors with the highest ability to impact results.

Cost Sheets | Drilling 1 | 100% | Hide Limits | Show Percentages

Drilling Cost Estimate

	Model	Lower	Quantity	Upper	Model	Lower	Unit Rate	Upper	Lower	Total Costs	Upper
PRODUCTION WELLS											
Xmas tree	UNI	12	13	16	TRI	990,180	1,100,200	1,375,250	11,585,106	14,302,600	21,453
Wellhead	UNI	12	13	16	TRI	60,030	66,700	83,375	702,351	867,100	1,300
Completion	UNI	12	13	16	TRI	27,000	30,000	37,500	315,900	390,000	585
Downhole ESP	UNI	0	0	0	TRI	270,090	300,100	375,125	0	0	
GAS INJ. WELLS											
Xmas tree	UNI	0	0	0	TRI	585,000	650,000	812,500	0	0	
Wellhead	UNI	0	0	0	TRI	39,600	44,000	55,000	0	0	
Completion	UNI	0	0	0	TRI	27,000	30,000	37,500	0	0	
WATER INJ. WELLS											
Xmas tree	UNI	5	5	6	TRI	1,226,250	1,362,500	1,703,125	5,518,125	6,812,500	10,218
Wellhead	UNI	5	5	6	TRI	76,860	85,400	106,750	345,870	427,000	640
Completion	UNI	5	5	6	TRI	27,000	30,000	37,500	121,500	150,000	225
SUBTOTAL											
FREIGHT	UNI	4	4	5					669,199	917,968	1,652
EQUIPMENT									19,258,051	23,867,168	36,076
DRILLING/COMPLETION											
									Lower	Total Costs	Upper
Casing / Tubing											
30" casing	UNI	7,974	8,860	11,518	TRI	176	196	255	1,406,614	1,736,560	2,934
20" casing	UNI	23,913	26,570	34,541	TRI	50	55	72	1,183,694	1,461,350	2,469
13 3/8" casing	UNI	96,147	106,830	138,879	TRI	31	34	44	2,942,098	3,632,220	6,138
9 5/8" casing	UNI	153,837	170,930	222,209	TRI	21	23	30	3,184,426	3,931,390	6,644
7" casing	UNI	41,852	46,280	60,164	TRI	14	15	20	562,302	694,200	1,173
5" tubing	UNI	197,955	219,950	285,935	TRI	9	10	13	1,781,595	2,199,500	3,717
3 1/2" tubing	UNI	0	0	0	TRI	7	7	9	0	0	
Cement	UNI	192,303	213,670	277,771	TRI	6	7	9	1,211,509	1,495,690	2,527
Mud	UNI	192,303	213,670	277,771	TRI	27	30	39	5,192,181	6,410,100	10,833
Brine	UNI	192,303	213,670	277,771	TRI	18	20	26	3,461,454	4,273,400	7,222