

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	16,663	22	4	16,439	70	4	16,285	49	4	16,119	39	4	15,958	26	4
	16,841	22	4	16,424	15	4	16,268	19	4	16,104	12	4	15,940	23	4
	16,619	22	4	16,409	15	4	16,249	18	4	16,092	22	4	15,917	18	4
	16,597	22	4	16,394	15	4	16,231	18	4	16,070	22	4	15,899	26	4
	16,575	22	4	16,379	15	4	16,213		4	16,048	22	4	15,873	26	4
	16,553	22	4	16,364	15	4	16,195	22	4	16,026	22	4	15,847	18	4
	16,531	22	3	16,349	15	3	16,173	15	3	16,004	20	3	15,829	22	3
	16,509		3	16,334		3	16,158		3	15,984		3	15,807		3
	Plug to Plug	240	30	Plug to Plug	154	30	Plug to Plug	166	30	Plug to Plug	161	30	Plug to Plug	173	30
	Frac Plug	16,688	Total Shots	Frac Plug	16,448	Total Shots	Frac Plug	16,294	Total Shots	Frac Plug	16,128	Total Shots	Frac Plug	15,967	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	15,785	22	4	15,609	22	4	15,428	28	4	15,251	29	4	15,082	24	4
	15,763	22	4	15,587	22	4	15,412	27	4	15,233	19	4	15,057	19	4
	15,741	22	4	15,565	22	4	15,385	17	4	15,214	22	4	15,038	23	4
	15,719	22	4	15,543	20	4	15,368	22	4	15,192	22	4	15,015	21	4
	15,697	22	4	15,523	24	4	15,346	22	4	15,170	21	4	14,994	21	4
	15,675	22	4	15,499	19	4	15,324	22	4	15,149	23	4	14,973	22	4
	15,653	22	3	15,480	24	3	15,302	22	3	15,126	20	3	14,951	22	3
	15,631		3	15,456		3	15,280		3	15,106		3	14,929		3
	Plug to Plug	176	30	Plug to Plug	176	30	Plug to Plug	182	30	Plug to Plug	169	30	Plug to Plug	175	30
	Frac Plug	15,794	Total Shots	Frac Plug	15,618	Total Shots	Frac Plug	15,442	Total Shots	Frac Plug	15,260	Total Shots	Frac Plug	15,091	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	14,900	29	4	14,733	20	4	14,541	36	4	14,380	23	4	14,204	22	4
	14,885	22	4	14,709	19	4	14,526	14	4	14,354	18	4	14,182	22	4
	14,863	22	4	14,680	25	4	14,512	22	4	14,336	24	4	14,160	22	4
	14,841	22	4	14,665	25	4	14,490	22	4	14,312	20	4	14,138	18	4
	14,819	22	4	14,640	19	4	14,468	22	4	14,292	22	4	14,120	26	4
	14,797	22	4	14,621	24	4	14,446	22	4	14,270	22	4	14,094	26	4
	14,775	22	3	14,597	20	3	14,424	21	3	14,248	22	3	14,068	18	3
	14,753		3	14,577		3	14,403		3	14,226		3	14,050		3
	Plug to Plug	174	30	Plug to Plug	192	30	Plug to Plug	161	30	Plug to Plug	176	30	Plug to Plug	190	30
	Frac Plug	14,916	Total Shots	Frac Plug	14,742	Total Shots	Frac Plug	14,550	Total Shots	Frac Plug	14,389	Total Shots	Frac Plug	14,213	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	14,014	36	4	13,845	30	4	13,671	24	4	13,502	22	4	13,322	26	4
	13,996	16	4	13,831	22	4	13,652	19	4	13,480	22	4	13,304	22	4
	13,980	17	4	13,809	22	4	13,633	23	4	13,458	22	4	13,282	22	4
	13,963	22	4	13,787	22	4	13,610	21	4	13,436	20	4	13,260	22	4
	13,941	22	4	13,765	22	4	13,589	22	4	13,416	24	4	13,238	17	4
	13,919	22	4	13,743	22	4	13,567	21	4	13,392	18	4	13,221	27	4
	13,897	22	3	13,721	26	3	13,546	22	3	13,374	26	3	13,194	22	3
	13,875		3	13,695		3	13,524		3	13,348		3	13,172		3
	Plug to Plug	169	30	Plug to Plug	174	30	Plug to Plug	169	30	Plug to Plug	172	30	Plug to Plug	186	30
	Frac Plug	14,023	Total Shots	Frac Plug	13,854	Total Shots	Frac Plug	13,680	Total Shots	Frac Plug	13,511	Total Shots	Frac Plug	13,339	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	13,144	28	4	12,975	21	4	12,795	26	4	12,615	30	4	12,441	29	4
	13,130	24	4	12,953	22	4	12,777	22	4	12,602	22	4	12,428	24	4
	13,106	19	4	12,931	22	4	12,755	22	4	12,580	22	4	12,404	27	4
	13,087	24	4	12,909	22	4	12,733	22	4	12,558	22	4	12,377	17	4
	13,063	22	4	12,887	22	4	12,711	22	4	12,536	22	4	12,360	26	4
	13,041	22	4	12,865	28	4	12,689	22	4	12,514	22	4	12,334	18	4
	13,019	23	3	12,837	16	3	12,667	22	3	12,492	22	3	12,316	22	3
	12,996		3	12,821		3	12,645		3	12,470		3	12,294		3
	Plug to Plug	169	30	Plug to Plug	174	30	Plug to Plug	186	30	Plug to Plug	172	30	Plug to Plug	191	30
	Frac Plug	13,153	Total Shots	Frac Plug	12,984	Total Shots	Frac Plug	12,810	Total Shots	Frac Plug	12,624	Total Shots	Frac Plug	12,452	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	12,259	35	4	12,098	19	4	11,904	39	4	11,740	27	4	11,570	22	4
	12,238	20	4	12,075	20	4	11,890	18	4	11,723	22	4	11,548	22	4
	12,218	20	4	12,055	24	4	11,872	20	4	11,701	18	4	11,526	22	4
	12,198	20	4	12,031	18	4	11,852	19	4	11,683	26	4	11,504	22	4
	12,178	20	4	12,013	26	4	11,833	22	4	11,657	23	4	11,482	23	4
	12,158	20	4	11,987	26	4	11,811	22	4	11,634	20	4	11,459	21	4
	12,138	21	3	11,961	18	3	11,789	22	3	11,614	22	3	11,438	22	3
	12,117		3	11,943		3	11,767		3	11,592		3	11,416		3
	Plug to Plug	154	30	Plug to Plug	194	30	Plug to Plug	164	30	Plug to Plug	170	30	Plug to Plug	176	30

1230

Frac Plug	12,261	Total Shots	Frac Plug	12,107	Total Shots	Frac Plug	11,913	Total Shots	Frac Plug	11,749	Total Shots	Frac Plug	11,579	Total Shots
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From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	11,394	22	4	11,203	37	4	11,016	49	4	10,857	29	4	10,692	29	4
	11,372	19	4	11,196	21	4	10,997	14	4	10,845	22	4	10,670	22	4
	11,353	25	4	11,175	22	4	10,983	23	4	10,823	18	4	10,648	22	4
	11,328	25	4	11,153	22	4	10,960	18	4	10,809	26	4	10,626	22	4
	11,303	19	4	11,131	22	4	10,942	19	4	10,779	18	4	10,604	22	4
	11,284	23	4	11,109	22	4	10,923	18	4	10,761	26	4	10,582	22	4
	11,261	21	3	11,087	22	3	10,905	19	3	10,735	14	3	10,560	22	3
	11,240	3	3	11,065		3	10,886		3	10,721		3	10,538		3
	Plug to Plug	191	30	Plug to Plug	181	30	Plug to Plug	165	30	Plug to Plug	165	30	Plug to Plug	176	30
Frac Plug		11,403	Total Shots	Frac Plug		11,212	Total Shots	Frac Plug		11,031	Total Shots	Frac Plug		10,866	Total Shots
Frac Plug		11,403	Total Shots	Frac Plug		11,212	Total Shots	Frac Plug		11,031	Total Shots	Frac Plug		10,866	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	10,516	22	4	10,326	36	4	10,165	22	4	9,989	22	4	9,807	28	4
	10,494	21	4	10,308	13	4	10,140	19	4	9,967	22	4	9,791	22	4
	10,473	23	4	10,296	22	4	10,121	25	4	9,945	22	4	9,769	22	4
	10,450	25	4	10,274	22	4	10,096	19	4	9,923	22	4	9,747	21	4
	10,425	19	4	10,252	22	4	10,077	23	4	9,901	22	4	9,726	22	4
	10,406	23	4	10,230	21	4	10,054	21	4	9,879	19	4	9,704	22	4
	10,383	21	3	10,209	22	3	10,033	22	3	9,860	25	3	9,682	22	3
	10,362		3	10,187		3	10,011		3	9,835		3	9,660		3
	Plug to Plug	190	30	Plug to Plug	159	30	Plug to Plug	176	30	Plug to Plug	178	30	Plug to Plug	180	30
Frac Plug		10,525	Total Shots	Frac Plug		10,335	Total Shots	Frac Plug		10,176	Total Shots	Frac Plug		10,000	Total Shots
Frac Plug		10,525	Total Shots	Frac Plug		10,335	Total Shots	Frac Plug		10,176	Total Shots	Frac Plug		10,000	Total Shots

From Bottom to Top		Distance Between Perfs	Shots	Stage 42	Distance Between Perfs	Shots	Stage 43	Distance Between Perfs	Shots	Stage 44	Distance Between Perfs	Shots	Stage 45	Distance Between Perfs	Shots
	9,633	27	4		9482			0			0			0	
	9,615	21	4												
	9,594	21	4												
	9,573	23	4												
	9,550	19	4												
	9,531	25	4												
	9,506	24	3												
	9,482		3												
	Plug to Plug	9642	30	Plug to Plug	0	0	Plug to Plug	0	0	Plug to Plug	0	0	Plug to Plug	0	0
Frac Plug		9,642	Total Shots	Frac Plug			Total Shots	Frac Plug			Total Shots	Frac Plug			Total Shots
Frac Plug		9,642	Total Shots	Frac Plug			Total Shots	Frac Plug			Total Shots	Frac Plug			Total Shots