

Well	Type	Location	Section	Current		Original	
				MV BHP	DK BHP	MV BHP	DK BHP
San Juan 27-4 Unit #38M	Drill	027N04W06C	6	603	1268	1395	3052
San Juan 27-4 Unit #41M	Drill	027N04W07E	7	559	1085	1378	3151
San Juan 27-4 Unit #5M	Drill	027N04W07I	7	559	1085	1378	3151
San Juan 27-4 Unit #14M	Drill	027N04W18F	18	612	921	1340	3101
San Juan 27-4 Unit #56M	Drill	027N04W21D	21	639	1268	1305	3099
San Juan 27-4 Unit #101M	Drill	027N04W28P	28	604	1324	1357	2913
San Juan 27-5 Unit #49M	Drill	027N04W30E	30	630	1122	1361	2932
San Juan 27-4 Unit #53M	Drill	027N04W30J	30	689	1245	1371	3179
San Juan 27-4 Unit #102M	Drill	027N04W33D	33	678	1107	1409	3004
				619	1158	1366	3065

Well	Type	Location	Section	Current		Original	
				MV BHP	DK BHP	MV BHP	DK BHP
San Juan 27-5 Unit #111M	Drill	027N05W02	2	742	838	1340	3096
San Juan 27-5 Unit #70M	Drill	027N05W08O	8	733	1100	1271	3187
San Juan 27-5 Unit #104M	Drill	027N05W12E	12	645	1040	1333	3075
San Juan 27-5 Unit #90M	Drill	027N05W16P	16	724	910	1303	3160
San Juan 27-5 Unit #133M	Drill	027N05W19C	19	612	1077	1271	3243
San Juan 27-5 Unit #115M	Drill	027N05W23E	23	731	982	1314	3295
San Juan 27-5 Unit #120M	Drill	027N05W23J	23	731	982	1314	3295
San Juan 27-5 Unit #119M	Drill	027N05W24O	24	531	1066	1355	3152
San Juan 27-5 Unit #129M	Drill	027N05W26O	26	640	845	1282	3141
San Juan 27-5 Unit #140M	Drill	027N05W29J	29	612	1184	1292	3214
San Juan 27-5 Unit #164M	Drill	027N05W30P	30	612	1184	1292	3214
San Juan 27-5 Unit #146M	Drill	027N05W36E	36	726	1133	1313	3080
				670	1028	1307	3179

Well	Type	Location	Section	Current		Original	
				MV BHP	DK BHP	MV BHP	DK BHP
San Juan 28-6 Unit #166M	Drill	027N06W01C	1	673	834	1251	3213
San Juan 28-6 Unit #169M	Drill	027N06W02I	2	734	1116	1238	3209
San Juan 28-6 Unit #115M	Drill	027N06W03	3	732	1069	1298	3098
San Juan 28-6 Unit #167M	Drill	027N06W04O	4	737	770	1301	3211
San Juan 28-6 Unit #98M	Drill	027N06W05D	5	662	951	1283	3237
San Juan 28-6 Unit #134M	Drill	027N06W05E	5	827	1058	1250	2500
San Juan 28-6 Unit #170M	Drill	027N06W05I	5	632	1058	1252	2500
San Juan 28-6 Unit #135M	Drill	027N06W06	6	558	1154	1288	3198
San Juan 28-6 Unit #186M	Drill	027N06W06	6	583	745	1265	3168
San Juan 28-6 Unit #103M	Drill	027N06W07	7	465	807	1250	3252
San Juan 28-6 Unit #104M	Drill	027N06W08	8	456	739	1274	3221
San Juan 28-6 Unit #205M	Drill	027N06W09C	9	753	1117	1165	3130
San Juan 28-6 Unit #207M	Drill	027N06W10	10	666	599	1275	3211
San Juan 28-6 Unit #206M	Drill	027N06W10J	10	734	1068	1301	3093
San Juan 28-6 Unit #158M	Drill	027N06W11C	11	668	957	1278	3201
San Juan 28-6 Unit #208M	Drill	027N06W11O	11	585	1009	1195	3154
San Juan 28-6 Unit #180M	Drill	027N06W12E	12	723	959	1273	3208
San Juan 28-6 Unit #182M	Drill	027N06W12E	12	690	1069	1257	3244
San Juan 28-6 Unit #161M	Drill	027N06W12I	12	690	1069	1257	3244
San Juan 28-6 Unit #179M	Drill	027N06W13C	13	705	1069	1299	3244
San Juan 28-6 Unit #183M	Drill	027N06W13I	13	612	1195	1271	3324
San Juan 28-6 Unit #181M	Drill	027N06W14E	14	585	1009	1195	3154
San Juan 28-6 Unit #171M	Drill	027N06W24J	24	612	1077	1271	3243
				656	978	1260	3142

San Juan 28-4 Unit #31M	Drill	028N04W32F	32	703	1244	1384	3194
San Juan 28-4 Unit #35M	Drill	028N04W33J	33	651	1035	1402	3252
				677	1140	1393	3223

Well	Type	Location	Section	Current		Original	
				MV BHP	DK BHP	MV BHP	DK BHP
San Juan 28-5 Unit #98M	Drill	028N05W13I	13	713	943	1243	2599
San Juan 28-5 Unit #97M	Drill	028N05W14P	14	713	943	1243	2599
San Juan 28-5 Unit #93M	Drill	028N05W15	15	786	1637	1273	2927
San Juan 28-5 Unit #83M	Drill	028N05W16C	16	808	977	1196	3114
San Juan 28-5 Unit #35M	Drill	028N05W19P	19	506	939	1249	2588
San Juan 28-5 Unit #86M	Drill	028N05W23D	23	603	1084	1320	3392
San Juan 28-5 Unit #78M	Drill	028N05W25F	25	603	1084	1320	3392
San Juan 28-5 Unit #77M	Drill	028N05W27F	27	690	969	1293	3244
San Juan 28-5 Unit #65M	Drill	028N05W28	28	797	666	1268	3233
San Juan 28-5 Unit #64M	Drill	028N05W28	28	591	922	1302	3266
San Juan 28-5 Unit #60M	Drill	028N05W29	29	656	922	1148	2473
San Juan 28-5 Unit #66M	Drill	028N05W29	29	797	865	1268	3281
San Juan 28-5 Unit #58M	Drill	028N05W30P	30	591	1021	1246	3177
San Juan 28-5 Unit #42M	Drill	028N05W31	31	558	1058	1351	3186
San Juan 28-5 Unit #41M	Drill	028N05W32	32	614	1010	1238	3091
San Juan 28-5 Unit #68M	Drill	028N05W33D	33	726	1006	1325	3079
San Juan 28-5 Unit #70M	Drill	028N05W34	34	588	731	1346	3325
San Juan 28-5 Unit #72M	Drill	028N05W35	35	587	1190	1342	3324
San Juan 28-5 Unit #73M	Drill	028N05W35	35	588	1193	1344	3330
San Juan 28-5 Unit #45M	Drill	028N05W36	36	728	1175	1289	3098
				662	1017	1280	3086

Well	Type	Location	Section	Current		Original	
				MV BHP	DK BHP	MV BHP	DK BHP
San Juan 28-6 Unit #132M	Drill	028N06W19I	19	611	970	1296	3290
San Juan 28-6 Unit #153M	Drill	028N06W25D	25	844	1315	1316	2622
San Juan 28-6 Unit #102M	Drill	028N06W26	26	628	1247	1138	3301
San Juan 28-6 Unit #113	Drill	028N06W26	26	716	1106	1292	3168
San Juan 28-6 Unit #154M	Drill	028N06W27	27	841	754	1233	3202
San Juan 28-6 Unit #155M	Drill	028N06W28C	28	555	818	1288	3109
San Juan 28-6 Unit #156M	Drill	028N06W29	29	613	988	1300	3364
San Juan 28-6 Unit #147M	Drill	028N06W29	29	871	907	1210	3280
San Juan 28-6 Unit #165M	Drill	028N06W30	30	754	879	1271	3230
San Juan 28-6 Unit #160M	Drill	028N06W30C	30	853	1096	1219	3203
San Juan 28-6 Unit #213M	Drill	028N06W31	31	558	847	1277	3203
San Juan 28-6 Unit #210M	Drill	028N06W31F	31	761	847	1178	3202
San Juan 28-6 Unit #130M	Drill	028N06W32I	32	827	1105	1263	3126
San Juan 28-6 Unit #164M	Drill	028N06W34D	34	629	951	1242	3237
San Juan 28-6 Unit #151M	Drill	028N06W34J	34	723	951	1273	3237
San Juan 28-6 Unit #150M	Drill	028N06W35D	35	723	1133	1273	3252
San Juan 28-6 Unit #141M	Drill	028N06W36D	36	461	941	1264	3132
				704	991	1255	3186

Well	Type	Location	Section	Current		Original	
				MV BHP	DK BHP	MV BHP	DK BHP
San Juan 29-7 Unit #92A	Drill	029N07W16	16	508	823	1276	3331
San Juan 29-7 Unit #129M	Drill	029N07W16I	16	512	784	1289	3368
San Juan 29-7 Unit #130M	Drill	029N07W21	21	769	957	1238	2627
San Juan 29-7 Unit #50A	Drill	029N07W21	21	777	965	1251	2648
San Juan 29-7 Unit #81A	Drill	029N07W21	21	520	905	1247	3231
San Juan 29-7 Unit #66A	Drill	029N07W22	22	621	470	1250	2173
San Juan 29-7 Unit #67A	Drill	029N07W23	23	580	466	1253	2153
San Juan 29-7 Unit #75A	Drill	029N07W23	23	523	953	1280	1479
San Juan 29-7 Unit #58A	Drill	029N07W26	26	550	1199	1312	3184
San Juan 29-7 Unit #128M	Drill	029N07W27	27	637	905	1248	3157
San Juan 29-7 Unit #53A	Drill	029N07W27	27	637	905	1248	3157
				603	848	1263	2773

Allison Unit #19M	Drill	032N06W19G	19		COLORADO	
Allison Unit #25M	Drill	032N06W19G	19		COLORADO	

				Current	Current	Original	Original
Well	Type	Location	Section	MV BHP	DK BHP	MV BHP	DK BHP
Allison Unit #24A	Drill	032N06W07P	7	678	840	1376	3233
Allison Unit #47	Drill	032N06W08M	8	562	674	1331	3404
Allison Unit #38M	Drill	032N06W17A	17	749	1112	1356	2906
Allison Unit #2R	Drill	032N06W17N	17	511	994	1421	3134
Allison Unit #39	Drill	032N06W18A	18	510	837	1418	3216
Allison Unit #20M	Drill	032N06W18F	18	480	839	1230	3225
				582	883	1355	3186

				Current	Current	Original	Original
Well	Type	Location	Section	MV BHP	DK BHP	MV BHP	DK BHP
Allison Unit #34M	Drill	032N07W11J	11	668	1223	1333	2917
Allison Unit #13M	Drill	032N07W12O	12	738	1112	1333	2908
Allison Unit #9M	Drill	032N07W13P	13	563	996	1332	3424
Allison Unit #31M	Drill	032N07W14D	14	668	1223	1333	2909
Allison Unit #12M	Drill	032N07W14J	14	469	692	1235	3224
Allison Unit #39M	Drill	032N07W18J	18	678	840	1376	3233
Allison Unit #40M	Drill	032N07W19O	19	749	1217	1357	3395
Allison Unit #17M	Drill	032N07W24E	24	526	996	1208	3424
Allison Unit #58	Drill	032N07W24I	24	469	791	1235	3382
Allison Unit #58M	Drill	032N07W24P	24	539	994	1306	3134
				607	1008	1305	3195

Basin Average

650

995

1289

3108

Current Pressure Data Base based on C107A Filings"

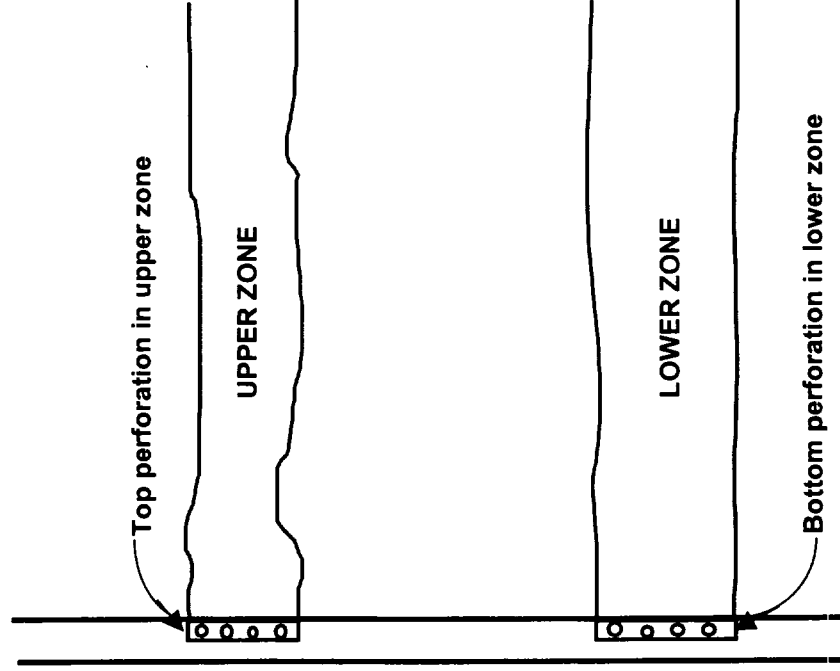
<u>Well #</u>	<u>Qtr-Qtr</u>	<u>S-T-R</u>	<u>Formations</u>	<u>Pressures</u>
7M, 27-4 Unit	NWNW	4-27N-4W	MV/DK	640/999
55M,27-4 Unit	NWSE	5-27N-4W	MV/DK	640/999
39M,27-4 Unit	SWNW	5-27N-4W	MV/DK	605/1265
41M,27-4 Unit	NESE	7-27N-4W	MV/DK	649/921
95E,27-4 Unit	SESE	8-27N-4W	MV/DK	647/1087
99A,27-4 Unit	NENW	16-27N-4W	PC/MV	479/263
138,27-4 Unit	SWSE	16-27N-4W	PC/MV	504/388
45,27-4 Unit	NENE	19-27N-4W	MV/DK	555/1214
45M,27-4 Unit	SWSE	19-27N-4W	MV/DK	634/1125
50E,27-4 Unit	NENW	19-27N-4W	MV/DK	528/917
50, 27-4 Unit	NESW	19-27N-4W	MV/DK	547/1078
13, 27-4 Unit	SWNE	20-27N-4W	PC/MV	579/641
47M,27-4 Unit	SWNW	20-27N-4W	MV/DK	528/1214
13A,27-4 Unit	SWSE	20-27N-4W	PC/MV	385/442
56,27-4 Unit	NWSW	21-27N-4W	MV/DK	651/1243
52M,27-4 Unit	NENW	29-27N-4W	MV/DK	617/1243
52,27-4 Unit	NWSW	29-27N-4W	MV/DK	723/1247
53,27-4 Unit	NWNE	30-27N-4W	MV/DK	577/1352
49,27-4 Unit	NESW	30-27N-4W	MV/DK	634/1125
54,27-4 Unit	NENE	32-27N-4W	MV/DK	595/1113
69,27-4 Unit	SWNW	34-27N-4W	MV/DK	630/1326
36,27-4 Unit	NESW	36-27N-4W	PC/MV	504/674
150,27-4 Unit	NWSW	36-27N-4W	MV/DK	694/966
106,27-5 Unit	SENE	1-27N-5W	MV/DK	767/1024
106M,27-5 Unit	NENW	1-27N-5W	MV/DK	603/1024
89M,27-5 Unit	NENW	4-27N-5W	MV/DK	514/852
60A,27-5 Unit		4-27N-5W	PC/MV	368/380
52,27-5 Unit	SWSW	4-27N-5W	PC/MV	315/476
78,27-5 Unit	SWNE	5-27N-5W	MV/DK	624/852
61A,27-5 Unit	NESE	5-27N-5W	PC/MV	412/500
78E,27-5 Unit	NWSE	5-27N-5W	MV/DK	598/696
112M,27-5 Unit	NENW	8-27N-5W	MV/DK	524/1024
112,27-5 Unit	NWSW	8-27N-5W	MV/DK	733/1100
64A,27-5 Unit	NWNW	9-27N-5W	PV/MV	309/331
113,27-5 Unit	NENE	10-27N-5W	MV/DK	529/917
105,27-5 Unit	SESW	11-27N-5W	MV/DK	1058/1071
40,27-5 Unit	NWSW	16-27N-5W	MV/DK	441/912
90M,27-5 Unit	SWSE	16-27N-5W	MV/DK	724/910
114,27-5 Unit	NENE	17-27N-5W	MV/DK	427/847
123M,27-5 Unit	NWSE	17-27N-5W	MV/DK	566/963
123,27-5 Unit	SESW	17-27N-5W	MV/DK	427/939
137,27-5 Unit	SWSE	18-27N-5W	MV/DK	733/1051
163,27-5 Unit	NWSW	18-27N-5W	MV/DK	501/927
131M,27-5 Unit	SWSE	20-27N-5W	MV/DK	784/1012
122M,27-5 Unit	NENW	21-27N-5W	MV/DK	566/963
118,27-5 Unit	NESW	22-27N-5W	MV/DK	454/1009
118E,27-5 Unit	SESE	22-27N-5W	MV/DK	704/849
120,27-5 Unit	NWSW	23-27N-5W	MV/DK	732/1123
116M,27-5 Unit	SENW	24-27N-5W	MV/DK	633/940

119,27-5 Unit	NESW	24-27N-5W	MV/DK	633/939
127,27-5 Unit	SWSE	25-27N-5W	MV/DK	592/843
190M,27-5 Unit	SWSE	25-27N-5W	MV/DK	592/843
130,27-5 Unit	NWNE	26-27N-5W	MV/DK	688/980
130E,27-5 Unit	NWNW	26-27N-5W	MV/DK	705/833
129,27-5 Unit	NWSW	26-27N-5W	MV/DK	680/845
79,27-5 Unit	NWNE	27-27N-5W	MV/DK	704/856
79M,27-5 Unit	NWNW	27-27N-5W	MV/DK	704/856
128M,27-5 Unit	SWSE	27-27N-5W	MV/DK	640/845
124M,27-5 Unit	SWSE	28-27N-5W	MV/DK	608/1004
121M,27-5 Unit	NWNW	28-27N-5W	MV/DK	788/1011
145M,27-5 Unit	SWNW	35-27N-5W	MV/DK	590/898
144M,27-5 Unit	NESE	35-27N-5W	MV/DK	590/898
147,27-5 Unit	NENE	36-27N-5W	MV/DK	726/1133
147,27-5 Unit	NESE	36-27N-5W	MV/DK	726/1133
30M,28-4 Unit	SWSE	31-28N-4W	MV/DK	638/1306
33,28-5 Unit	NWSW	17-28N-5W	MV/DK	574/477
29A,28-5 Unit	NWNW	18-28N-5W	PC/MV	514/451
34,28-5 Unit	SWSE	18-28N-5W	MV/DK	539/456
35,28-5 Unit	SWSW	19-28N-5W	MV/DK	458/625
76M,28-5 Unit	NENW	21-28N-5W	MV/DK	508/501
67M,28-5 Unit	SWSE	21-28N-5W	MV/DK	539/1042
92M,28-5 Unit	SWNW	24-28N-5W	MV/DK	713/943
37A,28-5 Unit	NWSE	24-28N-5W	MV/DK	713/943
78M,28-5 Unit	SWNW	25-28N-5W	MV/DK	603/1084
80M,28-5 Unit	NENW	26-28N-5W	MV/DK	603/1084
81M,28-5 Unit	NWSE	26-28N-5W	MV/DK	918/1222
51A,28-5 Unit	NENW	31-28N-5W	PC/MV	109/180
41,28-5 Unit	NENE	32-28N-5W	MV/DK	535/905
38A,28-5 Unit	SWSE	32-28N-5W	PC/MV	622/442
109M,28-6 Unit	NESE	1-27N-6W	MV/DK	724/877
203M,28-6 Unit	SWSE	7-27N-6W	MV/DK	394/789
179,28-6 Unit	SESW	13-27N-6W	GP/DK	1963/888
145M,28-6 Unit	NESE	19-28N-6W	MV/DK	543/880
143M,28-6 Unit	NENW	20-28N-6W	MV/DK	546/1100
142M,28-6 Unit	NWNW	21-28N-6W	MV/DK	514/1019
124M,28-6 Unit	NENW	22-28N-6W	MV/DK	533/915
10A,28-6 Unit	SESE	25-28N-6W	PC/MV	289/445
155M,28-6 Unit	NENW	28-28N-6W	MV/DK	555/818
148M,28-6 Unit	SESE	28-28N-6W	MV/DK	557/816
126,28-7 Unit	SENW	1-27N-7W	MV/DK	457/751
35,28-7 Unit	NWSW	1-27N-7W	FC/SaB PC	432/360
261,28-7 Unit	SESW	5-27N-7W	MV/DK	457/436
168,28-7 Unit	NENE	6-27N-7W	FC/SoB PC	432/331
216,28-7 Unit	SENE	8-27N-7W	MV/DK	457/646
185,28-7 Unit	SWSW	17-27N-7W	MV/DK	457/439
113,28-7 Unit	NENE	18-27N-7W	MV/DK	457/619
98M,28-7 Unit	SESE	29-27N-7W	MV/DK	457/713
186M,28-7 Unit	SENW	13-28N-7W	MV/DK	457/751
161,28-7 Unit	SWNE	16-28N-7W	FC/SoB PC	432/360

67M,29-5 Unit	NWNW	20-29N-5W	MV/DK	800/1050
57M,29-5 Unit	SESE	20-29N-5W	MV/DK	800/1050
65M,29-5 Unit	SWNW	28-29N-5W	MV/DK	600/645
32M,29-5 Unit	NWNW	29-29N-5W	MV/DK	800/1050
53M,29-5 Unit	SWSE	32-29N-5W	MV/DK	600/549
167,29-7 Unit	SWSW	32-29N-7W	FC/PC	463/394
106M,29-7 Unit	NENW	36-29N-7W	MV/DK	554/551
2A Carson	NWSE	1-30N-5W	MV/DK	609/1004
72E,30-5 Unit	SWSE	10-30N-5W	MV/DK	1030/1286
76M,30-5 Unit	SENE	15-30N-5W	MV/DK	700/1173
52M,30-5 Unit	NESE	15-30N-5W	MV/DK	1003/988
22A,30-5 Unit	SESE	17-30N-5W	MV/DK	700/1111
8R,32-5 Unit	SENE	27-32N-5W	MV/DK	1100/1100
17R,32-5 Unit	SENE	26-32N-5W	MV/DK	1125/900
11M,32-5 Unit	SESE	23-32N-5W	MV/DK	1200/950
13R,32-5 Unit	SWNW	25-32N-5W	MV/DK	1050/1150
9M,32-5 Unit	NESE	30-32N-5W	MV/DK	
447 CLU	SWNE	24-25N-7W	GP/DK	606/1783
103 Huerfanito U.	SESW	3-26N-9W	PC/DK	150/701
79 Huerfanito U.	SENE	26-27N-9W	MV/DK	370/734
78 Huerfanito U.	NWNE	36-27N-9W	MV/DK	448/729
61 Allison	NENE	7-32N-6W	MV/DK	678/840
64 Allison	NESE	8-32N-6W	MV/DK	511/840
6M Allison	SWNW	16-32N-6W	MV/DK	511/840
6R Allison	SESW	16-32N-6W	MV/DK	511/840
40 Allison	NENE	19-32N-6W	MV/DK	612/940
23M Allison	SWNW	19-32N-6W	MV/DK	583/994
23X Allison	SWSW	19-32N-6W	MV/DK	650/706
27 Allison	NENE	30-32N-6W	MV/DK	632/689
26M Allison	NWSW	10-32N-7W	MV/DK	668/1222
13 Allison	SWSW	12-32N-7W	MV/DK	648/700
57M Allison	SWNW	13-32N-7W	MV/DK	738/996

PRESSURE LIMITATIONS FOR DOWNHOLE COMMINGLING

COMMINGLED WELLBORE



Assumptions:

- 1) Pressure at bottom perforation in lower zone =
Depth of bottom perf x 0.433 psi/ft =
(Dbot x 0.433)
- 2) Fracture pressure at top perforation in upper zone =
Depth of top perf x 0.65 psi/ft =
(Dtop x 0.65)
- 3) Ignore the fluid gradient in the wellbore

Calculations:

Pressure at bottom perforation in lower zone is less than the fracture pressure at the top perforation in the upper zone.

$$D_{\text{bot}} \times 0.433 < D_{\text{top}} \times 0.65$$

$$D_{\text{bot}} < D_{\text{top}} \times (0.65 / 0.433)$$

$$D_{\text{bot}} < D_{\text{top}} \times 150\%$$