

Subject Area Wells – Inputs /Output data for Drainage Area Calculation

Input														Input					Input	Input	Output	Output
Township Range Section	Well	First CO2Prd Date	Current Date	Gas Rate MCFPD	Gas Cum MMCF	Fact «Gas_RES» MMCF	Fest «Gas_EUR» MMCF	Fest «Gas_Dt»	Fest «Gas_B»	Fest «Gas_Qt»	Fest «Gas_Tt» Start Date	Pressure Region	Original Pressure from Regio	phih	Z-factor at Original Psig	Calculated Drainage Area	Calculate d Drainage Radius					
N 18 E 30 SEC 1.0	30021204640000-CO2	2010 2/1/2013		357	443	900	1,343	0.0106110	0	314.9	2/28/2013	B	644	8.1	0.7549	123.2	1,307					
N 18 E 30 SEC 2.0	30021200790000-CO2	2009 2/1/2013		2,940	3,700	13,564	17,264	0.0065397	0	2,915.4	2/28/2013	B	644	10.4	0.7549	1,223.4	4,119					
N 18 E 30 SEC 12.0	30021201110000-CO2	2009 2/1/2013		1,040	1,348	2,386	3,735	0.0107637	0	844.9	2/28/2013	B	644	8.4	0.7549	327.8	2,132					
N 18 E 30 SEC 13.0	30021200800000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	B	644	8.6	0.7549	0.0	0					
N 18 E 30 SEC 24.0	30021204570000-CO2	2009 2/1/2013		311	83	80	162	0.0143155	0	38.4	2/28/2013	B	644	8.9	0.7549	13.6	434					
N 18 E 31 SEC 5.0	30021200810000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	C	602	6.1	0.7749	0.0	0					
N 18 E 31 SEC 11.0	30021204260000-CO2		2/1/2013					0.0	0	0.0	2/28/2013	D	554	4.8	0.7959	0.0	0					
N 18 E 31 SEC 12.0	30021200720000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	D	554	4.2	0.7959	0.0	0					
N 18 E 31 SEC 12.0	30021204160000-CO2	2009 2/1/2013			21	8	29	0.0000000	0	8.1	9/30/2012	D	554	#N/A	0.7959	#N/A	#N/A					
N 18 E 31 SEC 13.0	30021204230000-CO2	2009 2/1/2013		40	131	49	179	0.0248242	0	40.6	2/28/2013	D	554	4.6	0.7959	34.9	696					
N 18 E 31 SEC 16.0	30021201040000-CO2	2010 2/1/2013		233	324	1,349	1,672	0.0053370	0	237.5	2/28/2013	C	602	9.8	0.7749	138.5	1,386					
N 18 E 31 SEC 18.0	30021200820000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	B	644	7.4	0.7549	0.0	0					
N 18 E 31 SEC 22.0	30021200730000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	C	602	6.3	0.7749	0.0	0					
N 18 E 31 SEC 23.0	30021200740000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	D	554	6.2	0.7959	0.0	0					
N 18 E 31 SEC 24.0	30021204200000-CO2	2010 2/1/2013			9	50	59	0.0000001	0	134.7	5/31/2010	D	554	#N/A	0.7959	#N/A	#N/A					
N 18 E 31 SEC 30.0	30021204670000-CO2	2009 2/1/2013		155	191	230	421	0.0150836	0	115.0	2/28/2013	B	644	8.2	0.7549	38.0	726					
N 18 E 31 SEC 34.0	30021200420000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	D	554	6.1	0.7959	0.0	0					
N 19 E 30 SEC 14.0	30021201840000-CO2	1986 2/1/2013			327	35	362	0.0091308	0	11.4	12/31/2012	B	644	5.6	0.7549	47.4	811					
N 19 E 30 SEC 14.0	30021201850000-CO2	1986 2/1/2013		0	67	1	68	0.0072007	0	1.3	2/28/2013	B	644	4.5	0.7549	11.1	392					
N 19 E 30 SEC 16.0	30021204800000-CO2	2009 2/1/2013		47	64	14	78	0.0379570	0	18.7	2/28/2013	B	644	8.9	0.7549	6.5	299					
N 19 E 30 SEC 21.0	30021204780000-CO2	2010 2/1/2013		38	28	118	147	0.0081569	0	32.6	2/28/2013	B	644	8.4	0.7549	12.8	422					
N 19 E 30 SEC 24.0	30021200850000-CO2	2009 2/1/2013		119	93	49	142	0.0718158	0	116.9	2/28/2013	C	602	5.7	0.7749	20.2	529					
N 19 E 30 SEC 25.0	30021200860000-CO2	1998 2/1/2013		537	2,170	3,847	6,017	0.0039271	0	500.9	2/28/2013	C	602	7.2	0.7749	680.5	3,072					
N 19 E 30 SEC 26.0	30021204820000-CO2	2009 2/1/2013		37	107	69	177	0.0185085	0	43.2	2/28/2013	B	644	7.5	0.7549	17.4	491					
N 19 E 30 SEC 27.0	30021201120000-CO2	1994 2/1/2013		1,314	8,272	23,987	32,258	0.0013392	0	1,320.4	2/28/2013	B	644	8.9	0.7549	2,665.6	6,079					
N 19 E 30 SEC 33.0	30021200870000-CO2	2009 2/1/2013		420	624	976	1,600	0.0122141	0	392.6	2/28/2013	B	644	9.8	0.7549	120.2	1,291					
N 19 E 30 SEC 35.0	30021204840000-CO2	2009 2/1/2013		650	961	2,676	3,637	0.0074482	0	655.9	2/28/2013	B	644	8.8	0.7549	305.9	2,059					
N 19 E 30 SEC 36.0	30021200310000-CO2	1998 2/1/2013		425	2,056	4,781	6,837	0.0026400	0	433.0	2/28/2013	B	644	7.2	0.7549	701.4	3,119					
N 19 E 31 SEC 19.0	30021200710000-CO2	2010 2/1/2013		803	1,008	3,922	4,929	0.0065756	0	848.2	2/28/2013	C	602	5.1	0.7749	789.8	3,309					
N 19 E 31 SEC 23.0	30021202110000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	D	554	4.4	0.7959	0.0	0					
N 19 E 31 SEC 31.0	30021200910000-CO2	2011 2/1/2013		150	78	125	202	0.0314359	0	130.0	2/28/2013	C	602	6.2	0.7749	26.3	604					
N 19 E 31 SEC 35.0	30021200480000-TU88				0	0	0	0.0000000	0	0.0	4/30/2013	D	554	2.2	0.7959	0.0	0					

Inputs

Swi = 0.132

Temperature = 550 Rankin

Ultimate RF (Recovery Factor) = 65%