

Table P-1

Gas/Water Contacts in Key Wells

GAS/WATER CONTACTS - SURMONT PROJECT						
Key Wells	Cored	Perfed	Gas Ind	G/W KB	G/W ASL	Lithology
11198006		Yes	D-N Xover	311	260	Sand
15028106		Yes	D-N Xover	231	255	Sand G/O not G/W
07028107		Yes	D-N Xover	333	261	Sand
14168206		Yes	D-N Xover	233	278	Sand
16308206	Yes		Inferred	246	282	Sand-Shale
10238207	Yes		D-N Xover	404	277	Sand-Shale
06328207		Yes	D-N Xover	447	274	Sand
01108306		Yes	D-N Xover	290	284	Sand-Shale
11148306	Yes		D-N Xover	283	281	Sand-Shale
07198306	Yes		D-N Xover	322	282	Sand-Shale
04228306	Yes		Inferred	308	282	Sand-Shale
10248306	Yes		Inferred	266	282	Sand-Shale
02258306	Yes		Inferred	267	282	Sand-Shale
03278306	Yes		Inferred	296	282	Sand-Shale
14278306	Yes		D-N Xover	279	280	Sand-Shale
09308306	Yes		Inferred	262	282	Shale
07038307		Yes	D-N Xover	380	280	Sand-Shale
07168307		Yes	D-N Xover	440	270	Sand
04248307			D-N Xover	330	282	Sand-Shale
05248307	Yes		D-N Xover	332	282	Sand
10368307		Yes	No Pick			Shale
14118406		Yes	Inferred	245	272	Sand-Shale

Table P-2

NET GAS AND NET RESERVOIR RESULTS
FOR OBVIOUS GAS SANDS (KEY WELLS)

NET GAS AND NET RESERVOIR - SURMONT PROJECT										
GROUP 1: OBVIOUS GAS SANDS										
ZONE	TOP	BOT	PHIavg	SWavg	PRMav	PV	HPV	KH	NetPay	VSHavg
	meters	meters	frac	frac	md	meters	meters	md-m	meters	frac
15028106										
NET_GAS	217.0	231.0	0.267	0.36	427	3.31	2.12	5296	12.4	0.01
NET_RES	217.0	231.0	0.269	0.30	414	3.71	2.60	5719	13.8	0.01
06328207										
NET_GAS	431.0	447.0	0.283	0.46	296	0.45	0.25	474	1.6	0.07
NET_RES	431.0	447.0	0.262	0.31	139	3.72	2.59	1980	14.2	0.07
14278306										
NET_GAS	266.0	279.0	0.320	0.36	2777	0.78	0.50	6771	2.4	0.49
NET_RES	266.0	279.0	0.298	0.27	2502	1.63	1.20	13728	5.5	0.49
14168206										
NET_GAS	219.5	233.0	0.280	0.40	304	1.23	0.74	1337	4.4	0.25
NET_RES	219.5	233.0	0.286	0.28	1255	2.74	1.97	12044	9.6	0.25
11198006										
NET_GAS	303.0	311.0	0.286	0.41	346	0.91	0.54	1108	3.2	0.04
NET_RES	303.0	311.0	0.284	0.28	647	2.16	1.55	4918	7.6	0.04
07168307										
NET_GAS	424.0	440.0	0.301	0.32	833	1.72	1.18	4749	5.7	0.47
NET_RES	424.0	440.0	0.305	0.26	1683	2.10	1.55	11613	6.9	0.47
05248307										
NET_GAS	323.0	332.3	0.334	0.45	6048	0.53	0.29	9677	1.6	0.45
NET_RES	323.0	332.3	0.332	0.24	6811	1.39	1.06	28607	4.2	0.45
07028107										
NET_GAS	318.0	333.0	0.278	0.30	297	2.72	1.91	2914	9.8	0.16
NET_RES	318.0	333.0	0.275	0.29	299	3.22	2.28	3495	11.7	0.16
11148306										
NET_GAS	270.0	283.0	0.305	0.39	2379	0.61	0.37	4759	2.0	0.23
NET_RES	270.0	283.0	0.286	0.28	1983	2.57	1.85	17847	9.0	0.23
10248306										
NET_GAS	246.0	266.0	0.359	0.44	14733	0.71	0.39	29189	2.0	0.64
NET_RES	246.0	266.0	0.319	0.25	8939	1.12	0.84	31333	3.5	0.64
04248307										
NET_GAS	320.0	330.0	0.342	0.44	9579	0.48	0.27	13411	1.4	0.41
NET_RES	320.0	330.0	0.319	0.25	7877	1.50	1.12	37023	4.7	0.41
10238207										
NET_GAS	402.0	404.0	0.324	0.49	3131	0.05	0.02	477	0.2	0.07
NET_RES	402.0	404.0	0.286	0.28	907	0.57	0.41	1797	2.0	0.07

Table P-3
NET GAS AND NET RESERVOIR FOR
INFERRED GAS SANDS AND SHALED-OUT ZONES (KEY WELLS)

NET GAS AND NET RESERVOIR - SURMONT PROJECT										
GROUP 2: INFERRED GAS SANDS										
ZONE	ZN_TOP	ZN_BOT	PHIavg	SWavg	PERMav	PV	HPV	KH	NetPay	VSHavg
	meters	meters	frac	frac	md	meters	meters	md-m	meters	frac
14118406										
NET_GAS	222.0	245.0	0.000	0.00	0	0.00	0.00	0	0.0	0.63
NET_RES	222.0	245.0	0.288	0.28	4173	1.77	1.28	25560	6.1	0.63
16308206										
NET_GAS	244.0	246.5	0.000	0.00	0	0.00	0.00	0	0.0	0.59
NET_RES	244.0	246.5	0.220	0.36	7	0.18	0.11	6	0.8	0.59
07038307										
NET_GAS	369.0	380.0	0.000	0.00	0	0.00	0.00	0	0.0	0.32
NET_RES	369.0	380.0	0.250	0.32	394	1.10	0.75	1735	4.4	0.32
04228306										
NET_GAS	303.0	308.0	0.000	0.00	0	0.00	0.00	0	0.0	0.60
NET_RES	303.0	308.0	0.272	0.29	4186	0.27	0.19	4186	1.0	0.60
03278306										
NET_GAS	285.0	296.0	0.000	0.00	0	0.00	0.00	0	0.0	0.32
NET_RES	285.0	296.0	0.282	0.28	1785	1.85	1.32	11696	6.6	0.32
07198306										
NET_GAS	316.0	322.5	0.000	0.00	0	0.00	0.00	0	0.0	0.37
NET_RES	316.0	322.5	0.304	0.26	4672	1.02	0.75	15665	3.4	0.37
02258306										
NET_GAS	255.0	267.0	0.000	0.00	0	0.00	0.00	0	0.0	0.45
NET_RES	255.0	267.0	0.274	0.29	4225	1.23	0.87	19014	4.5	0.45
01108306										
NET_GAS	283.5	290.0	0.000	0.00	0	0.00	0.00	0	0.0	0.33
NET_RES	283.5	290.0	0.273	0.29	653	1.04	0.73	2480	3.8	0.33
NET GAS AND NET RESERVOIR - SURMONT PROJECT										
GROUP 3: SHALED OUT IN GAS INTERVAL										
ZONE	ZN_TOP	ZN_BOT	PHIavg	SWavg	PERMav	PV	HPV	KH	NetPay	VSHavg
	meters	meters	frac	frac	md	meters	meters	md-m	meters	frac
09308306										
NET_GAS	257.0	261.6	0.000	0.00	0	0.00	0.00	0	0.0	0.87
NET_RES	257.0	261.6	0.000	0.00	0	0.00	0.00	0	0.0	0.87
10368307										
NET_GAS	265.0	271.0	0.000	0.00	0	0.00	0.00	0	0.0	0.71
NET_RES	265.0	271.0	0.000	0.00	0	0.00	0.00	0	0.0	0.71

An Assessment of Vertical and Lateral Pressure Communication
at Surmont in the Wabiskaw-McMurray Formations

Table G-2

CORES DESCRIBED

UWI	Well Name	X	Y	KB	Core	Core Depths*	Comments
					P&P	(MD meters)	
1AA102608007W400	PEX PCEJ CHARD OV 10-26	501381.78	6202072.8	584.8	x	314-393	Digitally Drafted - Appendix G-1
1AA102908007W400	PEX PCEJ CHARD OV 10-29	496494.9	6202074.23	629.1	x	348-419	Handwritten - Appendix G-2
100083308107W400	GULF BOHN 8-33	498240.17	6212883.19	687.9	x	413-457	Handwritten - Appendix G-2
100071208107W400	GULF RESDELN 7-12	502789.87	6206355.02	551.4	x	278-323	Handwritten - Appendix G-2
1AA112308307W400	CON RESDELN 11-23-83-7	500215	6229344	642.3	x	350-454	Handwritten - Appendix G-2
100033208007W400	CWWE CHARD 3-32	496122.39	6202820.35	637.1	x	338-421	Handwritten - Appendix G-2
100071608307W400	GULF RESDELN 7-16	497392.09	6227438.36	715.6		429-504	Handwritten - Appendix G-2
100103008006W400	PC ET AL CHARD 10-30-80-6	504581.3	6201717.1	520.1	x	240-325	Handwritten - Appendix G-2
1AA022508306W400	GULF NEWBY 2-25-83-6	512065.4	6230246.1	549.3	x	280-352	Handwritten - Appendix G-2
100070708106W400	GULF RESDELN 7-7	504655.26	6206367.99	516.1	x	250-299	Handwritten - Appendix G-2
100102708107W400	GULF BOHN 10-27	499598.37	6211559.72	659.7	x	391-448	Handwritten - Appendix G-2
102092408007W400	PC ET AL L CHARD 9-24-80-7	503235.5	6200390.8	556	x	268-357	Handwritten - Appendix G-2
1AA102208007W400	PC ET AL CHARD 10-22-80-7	499607.2	6200360.8	598.7	x	324-405	Handwritten - Appendix G-2
100070808207W400	NORTHSTAR RESDELN 7-8	496407.74	6215946.76	745.5		469-522	Handwritten - Appendix G-2
1AA133008306W400	GULF RESDELN 13-30	502944.3	6231543.8	559.9		257-333	Handwritten - Appendix G-2

* Depths approximate

CORE PHOTOS ARE IN APPENDIX G-3 (CD-ROM)

Table G-3

DIPMETERS LOADED IN PETREL

Wells

100012308307	1AA051808306	1AA150108307
100021808306	1AA060608306	1AA150208307
100031208307	1AA060708306	1AA150608306
100053308207	1AA061208307	1AA151108307
100061308207	1AA070108307	1AA151308307
100091408307	1AA070608306	1AA152308307
100092108307	1AA071208307	1AA152408207
100103108306	1AA071308307	1AA152708207
100122408307	1AA072708306	1AA153208206
100130108307	1AA072708307	1AA153608207
1AA012508307	1AA081208307	1AA160708306
1AA012608307	1AA081408307	1AA161108207
1AA012808307	1AA091108307	1AA161508307
1AA013208307	1AA091708307	1AA162108207
1AA020108307	1AA091808306	1AA162908207
1AA020208207	1AA093408306	1AB051308307
1AA020608306	1AA100108307	1AB062308307
1AA020708306	1AA101208307	1AB081208307
1AA022308307	1AA101408307	1AB090108307
1AA022408307	1AA102908307	1AB091408307
1AA030208307	1AA103408207	1AB100108307
1AA030708306	1AA110308307	1AB101408307
1AA032708307	1AA110608306	1AB113008306
1AA033208307	1AA111608207	1AB121308307
1AA033508207	1AA112108306	1AB131308307
1AA040108307	1AA112308307	1AB150108307
1AA040608306	1AA120108307	1AC022308307
1AA040708306	1AA121308207	1AC042408307
1AA041208307	1AA121808306	1AC081208307
1AA042408306	1AA130608306	
1AA042508307	1AA141308307	
1AA050108307	1AA141408307	
1AA050708306	1AA142208307	
1AA051208307	1AA142308307	

Table RS-1

**SURMONT HISTORY MATCH
PRESSURE MATCH NOTES AND OBSERVATIONS**

WELL	REMARKS ON OBSERVED PRESSURE HISTORY
08-01-081-06	4th point 48 hr shut-in (SI) surface measurement
15-02-081-06	Falling pressure due to offset drainage from 06-22/07-23-083-06
11-03-081-06	3rd point 48 hr SI surface measurement
07-04-081-06	3rd point 48 hr SI surface measurement
07-05-081-06	2nd point 57.9 hr SI static gradient
11-12-081-06	2nd point 48 hr SI, 3rd point 48 hr SI - surface measurement
07-15-081-06	3rd point 27.2 hr SI static gradient. Initial pressure low?
06-17-081-06	2nd point 48 hr SI surface measurement; 3rd point 24.9 hr SI static gradient
03-21-081-06	2nd point 24 hr SI surface measurement
08-19-081-06	2nd point 117 hr SI. Stable for 88 hrs
14-20-081-06	2nd point 48 hr SI surface measurement; 3rd point 26.5 hr SI static gradient
07-23-081-06	P initial 27.3 hr buildup - P* linear; 2nd point 48 hr SI surface measurement
02-26-081-06	Static points are sentry spot readings, constant liquid level based on last static gradient
	2nd point 48 hr SI surface measurement; 3rd point 25.6 hr SI static gradient
12-27-081-06	2nd point 24 hr SI static gradient
12-31-081-06	Initial pressure surface reading from tester. Shut in duration unknown.
03-32-081-06	2nd point 48 hr SI surface measurement; last 2 points static gradients - pressure decreasing.
08-33-081-06	2nd point 24.3 hr SI surface measurement
11-34-081-06	Static points sentry spot reading - constant liquid level (none) based on last static gradient
07-02-081-07	2nd point static gradient no SI time noted
11-32-081-07	2nd point surface SCADA buildup 163.8 hr SI
08-34-081-07	2nd point 145 hr SI extrapolated P*
15-17-082-05	2nd point 26.6 hr SI surface measurement
02-19-082-05	2nd point 26.4 hr SI surface measurement; following static gradient showed liquid
14-20-082-05	Points 2,3,4 and 5 are 75 hr SI; point 6 surface measurement (static gradients liquid)
06-21-082-05	2nd point 78 hr SI static gradient; 3rd point 81 hr SI static gradient;
	4th point surface measurement (gradients show liquid)
03-05-082-06	2nd point 48 hr surface measurement (liquid shown on previous survey)
12-06-082-06	2nd point 24 hr SI static gradient. Final point obstruction - Run depth 100 m high.
	Liquid noted - probably OK
05-12-082-06	2nd point 29.7 hr SI surface measurement
14-16-082-06	1st & 2nd points surface measurements. Later gradients showed liquid (P 100-200 kPa low?)
10-19-082-06	2nd point static gradient sand on recorders
06-20-082-06	2nd point 44.5 hr SI surface measurement
04-22-082-06	1st point 24.1 hr SI liquid in wellbore; 2nd point 44.4 hr SI surface measurement.
02-24-082-06	2nd point 44.3 hr SI surface measurement; 3rd point 48.7 hr SI buildup- liquid noted
06-34-082-06	Initial pressure increasing
11-01-082-07	2nd point 53.3 hr SI surface SCADA; Points 3 & 4 increase 9 kPa in 3 days static gradient 13 days later increased over 400 kPa

Table RS-1 (continued)

WELL	REMARKS ON OBSERVED PRESSURE HISTORY
08-03-082-07	Initial pressure surface measurement SI from AOF - no buildup; 3rd point surface measurement; 4th point 94.7 hr SI
05-05-082-07	Final point surface SCADA buildup 165 hr SI
07-08-082-07	1st point 36 hr SI static gradient; 2nd point no SI time static gradient
06-09-082-07	3rd point 72.3 hr SI surface SCADA buildup; 4th point 95.5 hr SI - no analysis
07-10-082-07	5th point 8.6 hr buildup surface measurements; 6th point 95.5 hr SI extrapolated P*
05-14-082-07	3rd & 4th points 97 hr SI; point 3 surface SCADA measurement
06-17-082-07	2nd point 77 hr SI surface SCADA buildup
07-20-082-07	Initial point no static gradient, assumed gas - subsequent showed liquid; 2nd point surface SCADA 109.3 hr SI, 4th point 99.7 hr buildup extrapolated P* with single boundary
05-26-082-07	Initial pressure from testers surface deadweight gauge and calculated to MPP
06-29-082-07	2nd point surface SCADA buildup 100.0 hr SI
07-30-082-07	4th point 99.5 hr SI extrapolated P*
06-32-082-07	Single point (depleted?) from surface buildup testers notes
06-34-082-07	Points 2,3,4 surface SCADA buildup; point 3 81.3 hr SI
11-36-082-07	Point 3 surface buildup 108.7 hr. SI; point 4 wellhead frozen SI time unknown
16-36-082-08	Initial point surface measurement; 2nd point 296 kPa (Nov/99 tag fill above perfs)
10-05-083-05	2nd point 26 hr SI surface measurement; 3rd point 25.4 hr SI surface measurement
12-08-083-05	2nd point 26 hr SI surface measurement
2/10-06-083-05	Single point - no data to confirm (minimal production), 30.5 hr SI simulated pressure
08-09-083-05	2nd point 25 hr SI surface measurement; 3rd point 62 hr SI static gradient
12-07-083-06	2nd point 87.7 hr SI surface SCADA measurement
2/01-14-083-06	2nd point 26.2 hr SI surface measurement
2/02-30-083-06	Initial pressure from testers surface gauge - cyclic steam response?
07-32-083-06	4th point 98 hr SI surface SCADA measurement
08-02-083-07	Points 2, 3 & 4 surface SCADA measurements, 160 to 134.5 hrs SI times; 4th point bottomhole pressure on gauge increasing 2.3 kPa/d
2/07-16-083-07	2nd point surface SI SCADA 156 hrs SI; 3rd point 120 hrs SI declining pressure, pressure obtained from maximum recorded value
07-21-083-07	Final point 98 hr SI buildup extrapolated P*
06-29-083-07	2nd point 99 hr SI buildup with late time boundary
07-24-083-07	final point 146.2 hr surface SCADA buildup
08-26-083-07	Low initial pressure point is surface measurement

Table RS-2

**SURMONT HISTORY MATCH
SUMMARY OF PROBLEM WELLS**

WELL	REMARKS ON HISTORY MATCH
11-22-081-06 W4M	Historical pressure increases to over 1800 kPa with no observable cause in the area. Pressure survey problem?
06-29-081-07 W4M	Unable to match trend of pressure increase following field shut-in.
10-19-082-06 W4M	Poor match of final pressure trend. Sharp increase in field pressures between surveys.
06-28-082-06 W4M	Unable to match final pressure trend. No intermediate pressure data available to confirm match.
07-12-082-07 W4M	Decreasing pressure trend with time. Connection uncertain.
09-13-082-07 W4M	Single data point after initial pressure. Connection uncertain.
16-34-083-06 W4M	Slightly decreasing pressure with time. Observation well with no production. Connection unknown.
15-36-083-06 W4M	Pressure decreased substantially prior to start of production. Offset wells do not correspond. Pressure then increased to above this low value after the well was shut-in. Connection unknown.
07-25-083-07 W4M	Pressure decreased with no production. Response from nearby bitumen production? Only single data point.
07-29-083-07 W4M	Unable to match trend of pressure increase. Pressure is much higher than offset 06-29 well at end of history.
2/10-36-083-07 W4M	Poor match of final pressure trend.

Table RS-3

SURMONT HISTORY MATCH
GAS IN PLACE AND WELL GROUPINGS

MODEL GROUP	WELLS (NON BOLD IN BUFFER)	<u>ORIGINAL GAS IN PLACE</u>		<u>REMAINING GAS IN PLACE</u>	
		<u>e3m3</u>	<u>BCF</u>	<u>e3m3</u>	<u>BCF</u>
1	NOT ASSIGNED	-	-	-	-
2	BUFFER	-	-	-	-
3	06-22-080-06 W4 15-26-080-06 W4 10-27-080-06 W4 07-35-080-06 W4 15-02-081-06 W4	623221	22.1	193655	6.9
4	11-03-081-06 W4 07-04-081-06 W4	387104	13.7	282971	10.0
5	11-17-081-05 W4 03-18-081-05 W4 11-12-081-06 W4 07-13-081-06 W4 07-14-081-06 W4	413384	14.7	179553	6.4
6	04-22-082-06 W4	261893	9.3	197790	7.0
7	11-22-081-06 W4 12-27-081-06 W4 08-33-081-06 W4 11-34-081-06 W4 07-35-081-06 W4	223872	7.9	177683	6.3
8	12-06-082-06 W4	22888	0.8	17725	0.6
9	08-03-082-07 W4 06-09-082-07 W4 07-10--82-07 W4	353342	12.5	82546	2.9
10	11-32-081-07 W4	101395	3.6	70716	2.5

Table RS-3 (continued)

SURMONT HISTORY MATCH
GAS IN PLACE AND WELL GROUPINGS

<u>MODEL GROUP</u>	<u>WELLS</u> (NON BOLD IN BUFFER)	<u>ORIGINAL GAS IN PLACE</u>		<u>REMAINING GAS IN PLACE</u>	
		<u>e3m3</u>	<u>BCF</u>	<u>e3m3</u>	<u>BCF</u>
11	14-15-081-07 W4 10-16-081-07 W4 12-21-081-07 W4 11-22-081-07 W4 10-23-081-07 W4 07-27-081-07 W4	906444	32.2	262085	9.3
12	12-13-081-07 W4	37572	1.3	20935	0.7
13	11-19-081-05 W4 03-30-081-05 W4 07-23-081-06 W4 02-22-081-06 W4	808278	28.7	279496	9.9
14	09-36-081-06 W4	147385	5.2	75390	2.7
15	06-17-081-06 W4 03-21-081-06 W4	153813	5.5	99716	3.5
16	08-01-081-06 W4	105148	3.7	37145	1.3
17	08-19-081-06 W4	40460	1.4	17252	0.6
18	08-34-081-07 W4 05-35-081-07 W4	140003	5.0	70052	2.5
19	14-20-081-06 W4	60822	2.2	35199	1.2
20	07-08-082-07 W4	8544	0.3	5318	0.2
21	06-17-082-07 W4	101322	3.6	49913	1.8
22	BUFFER	-		-	
23	07-20-082-07 W4 06-29-082-07 W4 07-30-082-07 W4 06-32-082-07 W4	524816	18.6	237818	8.4

Table RS-3 (continued)

**SURMONT HISTORY MATCH
GAS IN PLACE AND WELL GROUPINGS**

<u>MODEL GROUP</u>	<u>WELLS (NON BOLD IN BUFFER)</u>	<u>ORIGINAL GAS IN PLACE</u>		<u>REMAINING GAS IN PLACE</u>	
		<u>e3m3</u>	<u>BCF</u>	<u>e3m3</u>	<u>BCF</u>
24	16-36-082-08 W4 08-06-083-07 W4	122322	4.3	72344	2.6
25	06-34-082-07 W4 07-03-083-07 W4	62357	2.2	41858	1.5
26	04-35-080-07 W4 07-02-081-07 W4	358639	12.7	318273	11.3
27	05-14-082-07 W4	54881	1.9	18663	0.7
28	09-09-083-07 W4	29135	1.0	18729	0.7
29	02/07-16-083-07 W4	137613	4.9	62379	2.2
30	07-19-083-07 W4	22016	0.8	22016	0.8
31	07-31-083-07 W4	34620	1.2	32035	1.1
32	07-21-083-07 W4 06-29-083-07 W4 07-29-083-07 W4	133823	4.8	80456	2.9
33	02-33-083-07 W4	46410	1.6	38311	1.4
34	07-25-083-07 W4	55294	2.0	55293	2.0
35	2/03-31-083-06 W4 3/10-31-083-06 W4 07-32-083-06 W4 06-33-083-06 W4	120373	4.3	78224	2.8
36	07-24-083-07 W4	120516	4.3	56124	2.0
37	02-30-083-06 W4	80061	2.8	70007	2.5
38	12-07-083-06 W4 A/09-13-083-07 W4	36951	1.3	26229	0.9

Table RS-3 (continued)

**SURMONT HISTORY MATCH
GAS IN PLACE AND WELL GROUPINGS**

<u>MODEL GROUP</u>	<u>WELLS (NON BOLD IN BUFFER)</u>	<u>ORIGINAL GAS IN PLACE</u>		<u>REMAINING GAS IN PLACE</u>	
		<u>e3m3</u>	<u>BCF</u>	<u>e3m3</u>	<u>BCF</u>
39	11-36-082-07 W4 08-02-083-07 W4	146860	5.2	109307	3.9
40	11-01-082-07 W4 07-12-082-07 W4 09-13-082-07 W4	139285	4.9	103523	3.7
41	10-19-082-06 W4 06-20-082-06 W4 06-28-082-06 W4	128959	4.6	108617	3.9
42	14-16-082-06 W4	56373	2.0	43748	1.6
43	06-34-082-06 W4	70767	2.5	70363	2.5
44	15-26-082-06 W4	4417	0.2	2294	0.1
45	02-19-082-05 W4 02-24-082-06 W4	56348	2.0	25020	0.9
46	15-17-082-05 W4 14-20-082-05 W4 06-21-082-05 W4	341481	12.1	155892	5.5
47	08-09-083-05 W4	40330	1.4	26535	0.9
48	10-05-083-05 W4 12-08-083-05 W4	112270	4.0	49691	1.8
49	2/10-06-083-05 W4	64544	2.3	60809	2.2
50	11-20-081-07 W4 06-20-081-07 W4	46092	1.6	29268	1.0
51	11-12-083-06 W4	325564	11.6	126328	4.5
52	02-11-083-06 W4 12-13-083-06 W4 2/01-14-083-06 W4	308120	10.9	124432	4.4

Table RS-3 (continued)

SURMONT HISTORY MATCH
GAS IN PLACE AND WELL GROUPINGS

<u>MODEL GROUP</u>	<u>WELLS (NON BOLD IN BUFFER)</u>	<u>ORIGINAL GAS IN PLACE</u>		<u>REMAINING GAS IN PLACE</u>	
		<u>e3m3</u>	<u>BCF</u>	<u>e3m3</u>	<u>BCF</u>
53	05-05-082-07 W4	49691	1.8	18930	0.7
54	05-26-082-07 W4	17732	0.6	11540	0.4
55	08-02-083-06 W4	15925	0.6	11600	0.4
56	15-36-083-06 W4	3379	0.1	2410	0.1
57	05-12-082-06 W4	82705	2.9	49018	1.7
58	03-32-081-06 W4 03-05-082-06 W4	27466	1.0	22009	0.8
59	DELETED	-		-	
60	12-31-081-06 W4	87322	3.1	61084	2.2
61	2/10-36-083-07 W4	12793	0.5	7454	0.3
62	08-26-083-07 W4	15904	0.6	8986	0.3
63	07-15-081-06 W4	77435	2.7	42264	1.5
TOTAL		8445259	299.8	4461362	158.4

Table RS-4
Reconciliation of Piezometer Pressure Data and Pool Assignments

WELL (W4M)	PIEZO W = WATER G = GAS	PRESSURE AT OFFSET GAS/WATER kPa	OFFSET WELL	PRESSURE AT GAS/WATER kPa	RESULT*
7-13-81-6	G				Included
2-26-81-6	G				Included
15-29-81-6	W	1013	3-32-81-6	987	Include in 3-32 Pool
11-34-81-6	G				Included
9-36-81-6	G				Included
AA/10-26-81-7	W	1624	10-23-81-7	596	Not Connected
			5-35-81-7	1009	Not Connected Connection Unknown
6-9-82-6	W	1407	3-32-81-6	987	Not Connected
		1360 (at perfs, G/W unknown)	14-16-82-6	1173 (at perfs, G/W unknown)	Not Connected Connection Unknown
14-30-82-6	G, W	1386 (in gas, G/W unknown)	10-19-82-6	1195 (at perfs, G/W unknown)	Not Connected
			11-36-82-7	1170	Not Connected Connection Unknown
		1048	9-13-82-7	1094	Possible Connection
6-13-82-7	G	1355	9-13-82-7	1094	Not Connected Connection Unknown
AA/14-14-82-7	W	1547	5-14-82-7	577	Not Connected Connection Unknown
AA/3-24-82-7	W	1390	9-13-82-7	1094	Not Connected
		1368 (in water at 6-13 depth)	6-13-82-7	1355 (piezo in water)	Possible Connection
AA/4-24-82-7	W	1367 (in water)		(piezos in water)	Possible Connection to 3-24 & 6-13-82-7
AA/11-24-82-4	W	1478 (in water at 4-24 depth)	4-24-82-7	1367 (piezo in water)	Not Connected to 3-24, 6-13, 4-24-82-7. Connection Unknown
5-33-82-7	G,W	910	6-29-82-7	844	Not Connected
		895	6-34-82-7	1023	Not Connected
		902	9-9-83-7	972	Not Connected Connection Unknown
8-3-83-6	W	1218	6-34-82-7	1024	Not Connected
		1236	8-2-83-6	951	Not Connected
		1166	1-10-83-6	1154	Possible Connection
			2-11-83-6	526	Not Connected

*INCLUDED – Well is already included in a simulated gas pool. See Figure RS4-A for details.

Table RS-4 (continued)
Reconciliation of Piezometer Pressure Data and Pool Assignments

WELL (W4M)	PIEZO W = WATER G = GAS	PRESSURE AT OFFSET GAS/WATER kPa	OFFSET WELL	PRESSURE AT GAS/WATER kPa	RESULT*
11-14-83-6	G,W	818 (in gas)	1-14-83-6	528 (in gas)	Possible Connection
7-19-83-6	G, W	1008 (in gas)	1519-83-6	1126 (in gas)	Not Connected
		920 (in gas)	12-7-83-6	992 (in gas)	Possible Connection
9-21-83-6	G,W	1091 (in gas)	8-27-83-6	No data at time	Connection Unknown
4-22-83-6	W	1211 (in water)			Virgin Pressure? Connection Unknown
10-24-83-6	G	591 (in gas)	1-14-83-6	528 (in gas)	Possible Connection
3-27-83-6	W	1183 (in water)	8-27-83-6	No data at time	Connection Unknown
14-27-83-6	G,W	1017 (in gas)	6-33-83-6	776 (in gas)	Not Connected Connection Unknown
2-28-83-6	W	1240 (in water)			Connection Unknown
13-1-83-7	W	1303	8-2-83-7	1119	Not Connected Connection Unknown
9-12-83-7	G,W	901 (in gas)	12-7-83-6	992 (in gas)	Possible Connection
14-12-83-7	W	1202 (in water)			Connection Unknown
AA/4-13-83-7	G	1031 (in gas)			Connection Unknown
AA/6-13-83-7	W	920	12-7-83-6	991	Not Connected Connection Unknown
AA/1-14-837	G,W	1109 (in gas)			Connection Unknown
AA/9-14-83-7	W	1240 (in water)			Connection Unknown
7-15-83-7	W	1251 (in water)	7-16-83-7	689	Not Connected
			9-9-83-7	972	Not Connected Connection Unknown
9-21-83-7	W	965 (in water)	7-21-83-7	No data at time	Possible Connection

*INCLUDED – Well is already included in a simulated gas pool. See Figure RS4-A for details.

Table RS-4 (continued)
Reconciliation of Piezometer Pressure Data and Pool Assignments

WELL (W4M)	PIEZO W = WATER G = GAS	PRESSURE AT OFFSET GAS/WATER kPa	OFFSET WELL	PRESSURE AT GAS/WATER kPa	RESULT*
3-23-83-7	W	1174 (in water)			Connection Unknown
5-23-83-7	W	1083 (in water)			Connection Unknown
16-23-83-7	G	1008 (in gas)	8-26-83-7	No data at time	Connection Unknown
Sec 24-83-7 Well data	G, W		No Offset Data		Connection Unknown
6-26-83-7	W	975 (in water, increasing)	No Offset Data		Connection Unknown
8-27-83-7	G	1192 (in gas)			Connection Unknown
10-28-83-7	W	1066 (in water, increasing)			Connection Unknown

*INCLUDED – Well is already included in a simulated gas pool. See Figure RS4-A for details.