





TOROMONT ENERGY SYSTEMS
1021 Barlow Trail N.E.
Calgary, Alberta
Canada
T3J 3C6

Case Name: \\PLATINUM\PROJECTS\11957 ALTA GAS 12-15MMSCFD GAS PLAN
Unit Set: Field3
Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main)

Stream Summary

Fluid Pkg: All

Name	1-14-091-12W6M	5	6	7	8
Vapour Fraction	1.0000	1.0000	1.0000	0.0000	1.0000
Temperature (F)	50.00 *	49.99	50.15	50.15	50.15
Pressure (psia)	78.40 *	78.40	78.40	78.40	75.40
Molar Flow (lbmole/hr)	439.2 *	1318	1327	0.0000	1327
Mass Flow (lb/hr)	8567	2.485e+004	2.511e+004	0.0000	2.511e+004
Std Ideal Liq Vol Flow (barrel/day)	1752	5156	5193	0.0000	5193
Heat Flow (Btu/hr)	-1.527e+007	-4.671e+007	-4.731e+007	0.0000	-4.731e+007
Liquid Fraction	0.0000	0.0000	0.0000	1.0000	0.0000
Molar Volume (ft3/lbmole)	68.35	68.46	68.48	1.899	71.25
Actual Volume Flow (barrel/day)	1.283e+005	3.856e+005	3.886e+005	0.0000	4.043e+005
Actual Gas Flow (ACFM)	500.4	1504	1515	---	1576
Actual Liquid Flow (USGPM)	---	---	---	0.0000	---
Std Gas Flow (MMSCFD)	4.000	12.00	12.09	0.0000	12.09
Molecular Weight	19.50	18.86	18.92	76.80	18.92
Mass Density (lb/ft3)	0.2854	0.2755	0.2762	40.45	0.2655
Molar Density (lbmole/ft3)	1.463e-002	1.461e-002	1.460e-002	0.5267	1.403e-002
Average Liquid Density (lbmole/ft3)	1.072	1.092	1.093	0.5161	1.093
Liq Mass Density @Std Cond (lb/ft3)	---	---	---	40.27	---
Molar Heat Capacity (Btu/lbmole-F)	9.634	9.354	9.370	39.41	9.363
Molar Enthalpy (Btu/lbmole)	-3.477e+004	-3.545e+004	-3.564e+004	-8.005e+004	-3.563e+004
Molar Entropy (Btu/lbmole-F)	40.89	40.88	40.91	23.29	41.00
Thermal Conductivity (Btu/hr-ft-F)	1.696e-002	1.719e-002	1.716e-002	6.370e-002	1.715e-002
Viscosity (cP)	1.073e-002	1.079e-002	1.078e-002	0.3046	1.078e-002
Surface Tension (dyne/cm)	---	---	---	16.06	---
Specific Gravity rel Air (rel to air)	0.6734	0.6513	0.6531	---	0.6531
Kinematic Viscosity (cSt)	2.348	2.446	2.437	0.4702	2.535
Comp Mole Frac (Hydrogen)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Helium)	0.0002 *	0.0002	0.0002	0.0000	0.0002
Comp Mole Frac (Nitrogen)	0.0042 *	0.0037	0.0037	0.0001	0.0037
Comp Mole Frac (CO2)	0.0071 *	0.0151	0.0151	0.0043	0.0151
Comp Mole Frac (Methane)	0.8556 *	0.8765	0.8724	0.0904	0.8724
Comp Mole Frac (Ethane)	0.0702 *	0.0621	0.0629	0.0422	0.0629
Comp Mole Frac (Propane)	0.0402 *	0.0286	0.0293	0.0789	0.0293
Comp Mole Frac (i-Butane)	0.0042 *	0.0032	0.0033	0.0240	0.0033
Comp Mole Frac (n-Butane)	0.0112 *	0.0065	0.0067	0.0716	0.0067
Comp Mole Frac (i-Pentane)	0.0021 *	0.0012	0.0012	0.0358	0.0012
Comp Mole Frac (n-Pentane)	0.0024 *	0.0013	0.0013	0.0519	0.0013
Comp Mole Frac (n-Hexane)	0.0012 *	0.0008	0.0008	0.1149	0.0008
Comp Mole Frac (n-Heptane)	0.0014 *	0.0010	0.0010	0.4852	0.0010
Comp Mole Frac (n-Octane)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Nonane)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Decane)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2O)	0.0000 *	0.0000	0.0023	0.0007	0.0023
Comp Mole Frac (EGlycol)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S5-100 (OIL)*)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S1-150 (OIL)*)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Oxygen)	0.0000 *	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2S)	***	***	***	***	***



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Case Name: \\PLATINUM\PROJECTS\11957 ALTA GAS 12-15MMSCFD GAS PLAN

Unit Set: Field3

Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main) (continued)

Stream Summary (continued)

Fluid Pkg: All

Name	9	10	10-03-091-11W6M	15-11-091-12W6M	100
Vapour Fraction	1.0000	1.0000	1.0000	1.0000	1.0000
Temperature (F)	49.99	323.7	50.00 *	50.00 *	120.0 *
Pressure (psia)	78.40	413.4 *	78.40 *	78.40 *	408.4
Molar Flow (lbmole/hr)	1321	1327	439.2 *	439.2 *	1327
Mass Flow (lb/hr)	2.491e+004	2.511e+004	8233	8055	2.511e+004
Std Ideal Liq Vol Flow (barrel/day)	5160	5193	1692	1712	5193
Heat Flow (Btu/hr)	-4.703e+007	-4.372e+007	-1.658e+007	-1.487e+007	-4.669e+007
Liquid Fraction	0.0000	0.0000	0.0000	0.0000	0.0000
Molar Volume (ft3/lbmole)	68.46	19.96	68.53	68.50	14.29
Actual Volume Flow (barrel/day)	3.865e+005	1.133e+005	1.287e+005	1.286e+005	8.108e+004
Actual Gas Flow (ACFM)	1507	441.6	501.7	501.5	316.1
Actual Liquid Flow (USGPM)	---	---	---	---	---
Std Gas Flow (MMSCFD)	12.03	12.09	4.000	4.000	12.09
Molecular Weight	18.86	18.92	18.75	18.34	18.92
Mass Density (lb/ft3)	0.2755	0.9478	0.2735	0.2677	1.324
Molar Density (lbmole/ft3)	1.461e-002	5.010e-002	1.459e-002	1.460e-002	6.998e-002
Average Liquid Density (lbmole/ft3)	1.094	1.093	1.110	1.096	1.093
Liq Mass Density @Std Cond (lb/ft3)	---	---	---	---	---
Molar Heat Capacity (Btu/lbmole-F)	9.352	11.67	9.170	9.259	10.43
Molar Enthalpy (Btu/lbmole)	-3.561e+004	-3.294e+004	-3.774e+004	-3.385e+004	-3.517e+004
Molar Entropy (Btu/lbmole-F)	40.90	41.89	40.86	40.82	38.62
Thermal Conductivity (Btu/hr-ft-F)	1.718e-002	3.103e-002	1.725e-002	1.737e-002	2.138e-002
Viscosity (cP)	1.078e-002	1.591e-002	1.089e-002	1.076e-002	1.260e-002
Surface Tension (dyne/cm)	---	---	---	---	---
Specific Gravity rel Air (rel to air)	0.6512	0.6531	0.6472	0.6332	0.6531
Kinematic Viscosity (cSt)	2.444	1.048	2.485	2.508	0.5943
Comp Mole Frac (Hydrogen)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (Helium)	0.0002	0.0002	0.0001 *	0.0002 *	0.0002
Comp Mole Frac (Nitrogen)	0.0037	0.0037	0.0029 *	0.0041 *	0.0037
Comp Mole Frac (CO2)	0.0150	0.0151	0.0335 *	0.0046 *	0.0151
Comp Mole Frac (Methane)	0.8745	0.8724	0.8865 *	0.8874 *	0.8724
Comp Mole Frac (Ethane)	0.0619	0.0629	0.0501 *	0.0659 *	0.0629
Comp Mole Frac (Propane)	0.0285	0.0293	0.0160 *	0.0295 *	0.0293
Comp Mole Frac (i-Butane)	0.0032	0.0033	0.0030 *	0.0023 *	0.0033
Comp Mole Frac (n-Butane)	0.0065	0.0067	0.0034 *	0.0048 *	0.0067
Comp Mole Frac (i-Pentane)	0.0012	0.0012	0.0010 *	0.0005 *	0.0012
Comp Mole Frac (n-Pentane)	0.0013	0.0013	0.0009 *	0.0005 *	0.0013
Comp Mole Frac (n-Hexane)	0.0008	0.0008	0.0010 *	0.0002 *	0.0008
Comp Mole Frac (n-Heptane)	0.0010	0.0010	0.0016 *	0.0000 *	0.0010
Comp Mole Frac (n-Octane)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (n-Nonane)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (n-Decane)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (H2O)	0.0023	0.0023	0.0000 *	0.0000 *	0.0023
Comp Mole Frac (EGlycol)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (S5-100 (OIL)*)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (S1-150 (OIL)*)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (Oxygen)	0.0000	0.0000	0.0000 *	0.0000 *	0.0000
Comp Mole Frac (H2S)	***	***	***	***	***



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Unit Set: Field3
Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main) (continued)

Stream Summary (continued)

Fluid Pkg: All

Name	103	104	105	106	107
Vapour Fraction	0.9818	0.9760	0.9682	0.0000	1.0000
Temperature (F)	121.8	12.50	-13.00	-13.00	-13.00
Pressure (psia)	408.4	403.4	398.4	398.4	398.4
Molar Flow (lbmole/hr)	1352	1352	1352	15.77	1309
Mass Flow (lb/hr)	2.620e+004	2.620e+004	2.620e+004	795.9	2.425e+004
Std Ideal Liq Vol Flow (barrel/day)	5262	5262	5262	100.9	5088
Heat Flow (Btu/hr)	-5.067e+007	-5.233e+007	-5.276e+007	-9.769e+005	-4.730e+007
Liquid Fraction	1.820e-002	2.396e-002	3.181e-002	1.000	0.0000
Molar Volume (ft3/lbmole)	14.09	10.80	10.05	1.357	10.35
Actual Volume Flow (barrel/day)	8.142e+004	6.241e+004	5.807e+004	91.47	5.791e+004
Actual Gas Flow (ACFM)	---	---	---	---	225.8
Actual Liquid Flow (USGPM)	2.031	---	---	2.668	---
Std Gas Flow (MMSCFD)	12.31	12.31	12.31	0.1437	11.92
Molecular Weight	19.39	19.39	19.39	50.46	18.53
Mass Density (lb/ft3)	1.376	1.795	1.929	37.19	1.790
Molar Density (lbmole/ft3)	7.096e-002	9.258e-002	9.948e-002	0.7371	9.659e-002
Average Liquid Density (lbmole/ft3)	1.098	1.098	1.098	0.6684	1.099
Liq Mass Density @Std Cond (lb/ft3)	---	---	---	33.87	---
Molar Heat Capacity (Btu/lbmole-F)	10.80	10.71	10.83	26.33	10.32
Molar Enthalpy (Btu/lbmole)	-3.749e+004	-3.872e+004	-3.904e+004	-6.193e+004	-3.614e+004
Molar Entropy (Btu/lbmole-F)	37.67	35.35	34.67	20.70	35.97
Thermal Conductivity (Btu/hr-ft-F)	---	---	---	6.179e-002	1.614e-002
Viscosity (cP)	---	---	---	0.2115	1.027e-002
Surface Tension (dyne/cm)	48.73	---	---	13.15	---
Specific Gravity rel Air (rel to air)	---	---	---	---	0.6399
Kinematic Viscosity (cSt)	---	---	---	0.3551	0.3580
Comp Mole Frac (Hydrogen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Helium)	0.0002	0.0002	0.0002	0.0000	0.0002
Comp Mole Frac (Nitrogen)	0.0036	0.0036	0.0036	0.0002	0.0038
Comp Mole Frac (CO2)	0.0148	0.0148	0.0148	0.0102	0.0150
Comp Mole Frac (Methane)	0.8568	0.8568	0.8568	0.1982	0.8826
Comp Mole Frac (Ethane)	0.0617	0.0617	0.0617	0.1073	0.0625
Comp Mole Frac (Propane)	0.0288	0.0288	0.0288	0.2068	0.0272
Comp Mole Frac (i-Butane)	0.0032	0.0032	0.0032	0.0567	0.0026
Comp Mole Frac (n-Butane)	0.0066	0.0066	0.0066	0.1599	0.0049
Comp Mole Frac (i-Pentane)	0.0012	0.0012	0.0012	0.0545	0.0006
Comp Mole Frac (n-Pentane)	0.0013	0.0013	0.0013	0.0673	0.0005
Comp Mole Frac (n-Hexane)	0.0008	0.0008	0.0008	0.0584	0.0001
Comp Mole Frac (n-Heptane)	0.0010	0.0010	0.0010	0.0805	0.0000
Comp Mole Frac (n-Octane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Nonane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Decane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2O)	0.0090	0.0090	0.0090	0.0000	0.0000
Comp Mole Frac (EGlycol)	0.0111	0.0111	0.0111	0.0000	0.0000
Comp Mole Frac (S5-100 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S1-150 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Oxygen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2S)	***	***	***	***	***



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Case Name: \\PLATINUM\PROJECTS\11957 ALTA GAS 12-15MMSCFD GAS PLAN
Unit Set: Field3
Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main) (continued)

Stream Summary (continued)

Fluid Pkg: All

Name	108	109	115	116	120
Vapour Fraction	1.0000	0.1959	0.2768	0.0000	1.0000
Temperature (F)	111.6	95.83	84.72	229.2	152.7
Pressure (psia)	393.4	393.4	255.0	255.0	1215 *
Molar Flow (lbmole/hr)	1309	15.77	15.77	8.946	1309
Mass Flow (lb/hr)	2.425e+004	795.9	795.9	594.0	2.425e+004
Std Ideal Liq Vol Flow (barrel/day)	5088	100.9	100.9	67.21	5088
Heat Flow (Btu/hr)	-4.564e+007	-9.195e+005	-9.195e+005	-5.716e+005	-4.564e+007
Liquid Fraction	0.0000	0.8041	0.7232	1.000	0.0000
Molar Volume (ft3/lbmole)	14.65	3.885	6.871	2.163	4.749
Actual Volume Flow (barrel/day)	8.192e+004	262.0	463.3	82.70	2.656e+004
Actual Gas Flow (ACFM)	319.4	—	—	—	103.6
Actual Liquid Flow (USGPM)	—	2.602	2.366	2.412	—
Std Gas Flow (MMSCFD)	11.92	0.1437	0.1437	8.147e-002	11.92
Molecular Weight	18.53	50.46	50.46	66.40	18.53
Mass Density (lb/ft3)	1.266	12.99	7.343	30.71	3.903
Molar Density (lbmole/ft3)	6.828e-002	0.2574	0.1455	0.4624	0.2106
Average Liquid Density (lbmole/ft3)	1.099	0.6684	0.6684	0.5689	1.099
Liq Mass Density @Std Cond (lb/ft3)	—	33.87	33.87	38.23	—
Molar Heat Capacity (Btu/lbmole-F)	10.20	29.88	28.49	48.51	11.85
Molar Enthalpy (Btu/lbmole)	-3.487e+004	-5.829e+004	-5.829e+004	-6.390e+004	-3.487e+004
Molar Entropy (Btu/lbmole-F)	38.49	27.97	28.21	31.33	36.46
Thermal Conductivity (Btu/hr-ft-F)	2.111e-002	—	—	3.892e-002	2.601e-002
Viscosity (cP)	1.242e-002	—	—	9.500e-002	1.480e-002
Surface Tension (dyne/cm)	—	9.010	10.34	4.763	—
Specific Gravity rel Air (rel_to_air)	0.6399	—	—	—	0.6399
Kinematic Viscosity (cSt)	0.6128	—	—	0.1931	0.2368
Comp Mole Frac (Hydrogen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Helium)	0.0002	0.0000	0.0000	0.0000	0.0002
Comp Mole Frac (Nitrogen)	0.0038	0.0002	0.0002	0.0000	0.0038
Comp Mole Frac (CO2)	0.0150	0.0102	0.0102	0.0000	0.0150
Comp Mole Frac (Methane)	0.8826	0.1982	0.1982	0.0000	0.8826
Comp Mole Frac (Ethane)	0.0625	0.1073	0.1073	0.0045	0.0625
Comp Mole Frac (Propane)	0.0272	0.2068	0.2068	0.2274	0.0272
Comp Mole Frac (i-Butane)	0.0026	0.0567	0.0567	0.0816	0.0026
Comp Mole Frac (n-Butane)	0.0049	0.1599	0.1599	0.2425	0.0049
Comp Mole Frac (i-Pentane)	0.0006	0.0545	0.0545	0.0897	0.0006
Comp Mole Frac (n-Pentane)	0.0005	0.0673	0.0673	0.1125	0.0005
Comp Mole Frac (n-Hexane)	0.0001	0.0584	0.0584	0.1009	0.0001
Comp Mole Frac (n-Heptane)	0.0000	0.0805	0.0805	0.1409	0.0000
Comp Mole Frac (n-Octane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Nonane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Decane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2O)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (EGlycol)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S5-100 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S1-150 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Oxygen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2S)	***	***	***	***	***



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Case Name: \\PLATINUM\PROJECTS\11957 ALTA GAS 12-15MMSCFD GAS PLAN

Unit Set: Field3

Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main) (continued)

Stream Summary (continued)

Fluid Pkg: All

Name	121	122	123	300	301
Vapour Fraction	1.0000	1.0000	1.0000	0.0000 *	0.0000
Temperature (F)	111.6	111.6	312.8	110.0 *	110.0
Pressure (psia)	393.4	391.4	1255	222.9	222.9
Molar Flow (lbmole/hr)	1309	1309	1309	89.07	89.07
Mass Flow (lb/hr)	2.425e+004	2.425e+004	2.425e+004	3915	3915
Std Ideal Liq Vol Flow (barrel/day)	5088	5088	5088	531.4	531.4
Heat Flow (Btu/hr)	-4.564e+007	-4.563e+007	-4.317e+007	-4.497e+006	-4.497e+006
Liquid Fraction	0.0000	0.0000	0.0000	1.000	1.000
Molar Volume (ft3/lbmole)	14.65	14.72	6.319	1.529	1.529
Actual Volume Flow (barrel/day)	8.192e+004	8.237e+004	3.535e+004	582.3	582.3
Actual Gas Flow (ACFM)	319.4	321.1	137.8	---	---
Actual Liquid Flow (USGPM)	---	---	---	16.98	16.98
Std Gas Flow (MMSCFD)	11.92	11.92	11.92	0.8112	0.8112
Molecular Weight	18.53	18.53	18.53	43.96	43.96
Mass Density (lb/ft3)	1.266	1.259	2.933	28.74	28.74
Molar Density (lbmole/ft3)	6.828e-002	6.791e-002	0.1582	0.6539	0.6539
Average Liquid Density (lbmole/ft3)	1.099	1.099	1.099	0.7165	0.7165
Liq Mass Density @Std Cond (lb/ft3)	---	---	---	31.58	31.58
Molar Heat Capacity (Btu/lbmole-F)	10.20	10.20	12.10	33.72	33.72
Molar Enthalpy (Btu/lbmole)	-3.487e+004	-3.487e+004	-3.299e+004	-5.049e+004	-5.049e+004
Molar Entropy (Btu/lbmole-F)	38.49	38.51	39.13	23.91	23.91
Thermal Conductivity (Btu/hr-ft-F)	2.111e-002	2.110e-002	3.285e-002	4.834e-002	4.834e-002
Viscosity (cP)	1.242e-002	1.242e-002	1.685e-002	8.285e-002	8.285e-002
Surface Tension (dyne/cm)	---	---	---	4.756	4.756
Specific Gravity rel Air (rel_to_air)	0.6399	0.6399	0.6399	---	---
Kinematic Viscosity (cSt)	0.6128	0.6160	0.3586	0.1799	0.1799
Comp Mole Frac (Hydrogen)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (Helium)	0.0002	0.0002	0.0002	0.0000 *	0.0000
Comp Mole Frac (Nitrogen)	0.0038	0.0038	0.0038	0.0000 *	0.0000
Comp Mole Frac (CO2)	0.0150	0.0150	0.0150	0.0000 *	0.0000
Comp Mole Frac (Methane)	0.8826	0.8826	0.8826	0.0000 *	0.0000
Comp Mole Frac (Ethane)	0.0625	0.0625	0.0625	0.0200 *	0.0200
Comp Mole Frac (Propane)	0.0272	0.0272	0.0272	0.9700 *	0.9700
Comp Mole Frac (i-Butane)	0.0026	0.0026	0.0026	0.0050 *	0.0050
Comp Mole Frac (n-Butane)	0.0049	0.0049	0.0049	0.0050 *	0.0050
Comp Mole Frac (i-Pentane)	0.0006	0.0006	0.0006	0.0000 *	0.0000
Comp Mole Frac (n-Pentane)	0.0005	0.0005	0.0005	0.0000 *	0.0000
Comp Mole Frac (n-Hexane)	0.0001	0.0001	0.0001	0.0000 *	0.0000
Comp Mole Frac (n-Heptane)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (n-Octane)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (n-Nonane)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (n-Decane)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (H2O)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (EGlycol)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (S5-100 (OIL*))	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (S1-150 (OIL*))	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (Oxygen)	0.0000	0.0000	0.0000	0.0000 *	0.0000
Comp Mole Frac (H2S)	***	***	***	***	***



TOROMONT ENERGY SYSTEMS
1021 Barlow Trail N.E.
Calgary, Alberta
Canada
T3J 3C6

Case Name: \\PLATINUM\PROJECTS\11957 ALTA GAS 12-15MMSCFD GAS PLAN

Unit Set: Field3

Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main) (continued)

Stream Summary (continued)

Fluid Pkg: All

Name	302	306	307	308	309
Vapour Fraction	1.0000	0.0000	0.3830	1.0000 *	1.0000
Temperature (F)	110.0	90.00 *	-19.04	-17.12	-12.12
Pressure (psia)	222.9	217.9	26.59	26.59	26.09
Molar Flow (lbmole/hr)	0.0000	89.07	89.07	89.07	89.07
Mass Flow (lb/hr)	0.0000	3915	3915	3915	3915
Std Ideal Liq Vol Flow (barrel/day)	0.0000	531.4	531.4	531.4	531.4
Heat Flow (Btu/hr)	0.0000	-4.555e+006	-4.555e+006	-4.124e+006	-4.116e+006
Liquid Fraction	0.0000	1.000	0.6170	0.0000	0.0000
Molar Volume (ft3/lbmole)	20.56	1.463	65.38	169.4	175.0
Actual Volume Flow (barrel/day)	0.0000	557.1	2.489e+004	6.449e+004	6.664e+004
Actual Gas Flow (ACFM)	0.0000	—	—	251.4	259.8
Actual Liquid Flow (USGPM)	—	16.25	8.575	—	—
Std Gas Flow (MMSCFD)	0.0000	0.8112	0.8112	0.8112	0.8112
Molecular Weight	43.47	43.96	43.96	43.96	43.96
Mass Density (lb/ft3)	2.114	30.04	0.6724	0.2595	0.2511
Molar Density (lbmole/ft3)	4.864e-002	0.6834	1.530e-002	5.904e-003	5.713e-003
Average Liquid Density (lbmole/ft3)	0.7178	0.7165	0.7165	0.7165	0.7165
Liq Mass Density @Std Cond (lb/ft3)	31.38	31.58	31.58	31.58	31.58
Molar Heat Capacity (Btu/lbmole-F)	22.21	31.01	20.85	15.84	15.95
Molar Enthalpy (Btu/lbmole)	-4.453e+004	-5.114e+004	-5.114e+004	-4.630e+004	-4.622e+004
Molar Entropy (Btu/lbmole-F)	34.19	22.76	23.60	34.56	34.78
Thermal Conductivity (Btu/hr-ft-F)	1.260e-002	5.200e-002	—	7.502e-003	7.639e-003
Viscosity (cP)	9.630e-003	9.252e-002	—	6.768e-003	6.844e-003
Surface Tension (dyne/cm)	—	5.981	13.62	—	—
Specific Gravity rel Air (rel to air)	1.501	—	—	1.518	1.518
Kinematic Viscosity (cSt)	0.2844	0.1923	—	1.628	1.701
Comp Mole Frac (Hydrogen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Helium)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Nitrogen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (CO2)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Methane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Ethane)	0.0495	0.0200	0.0200	0.0200	0.0200
Comp Mole Frac (Propane)	0.9461	0.9700	0.9700	0.9700	0.9700
Comp Mole Frac (i-Butane)	0.0025	0.0050	0.0050	0.0050	0.0050
Comp Mole Frac (n-Butane)	0.0020	0.0050	0.0050	0.0050	0.0050
Comp Mole Frac (i-Pentane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Pentane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Hexane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Heptane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Octane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Nonane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Decane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2O)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (EGlycol)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S5-100 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S1-150 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Oxygen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2S)	***	***	***	***	***



TOROMONT ENERGY SYSTEMS
1021 Barlow Trail N.E.
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Case Name: \PLATINUM\PROJECTS\11957 ALTA GAS 12-15MMSCFD GAS PLAN

Unit Set: Field3

Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main) (continued)

Stream Summary (continued)

Fluid Pkg: All

Name	310	EG	Lean EG	LPG	Outlet Gas
Vapour Fraction	1.0000	0.0000	0.0000	0.0000	1.0000
Temperature (F)	165.0 *	-13.00	143.6	120.0 *	120.0 *
Pressure (psia)	225.9	398.4	408.4	250.0	1250 *
Molar Flow (lbmole/hr)	89.07	27.23	24.08	8.946	1309
Mass Flow (lb/hr)	3915	1155	1094	594.0	2.425e+004
Std Ideal Liq Vol Flow (barrel/day)	531.4	72.85	68.57 *	67.21	5088
Heat Flow (Btu/hr)	-3.886e+006	-4.488e+006	-3.981e+006	-6.137e+005	-4.617e+007
Liquid Fraction	0.0000	1.000	1.000	1.000	0.0000
Molar Volume (ft3/lbmole)	24.16	0.5965	0.6772	1.840	4.207
Actual Volume Flow (barrel/day)	9198	69.41	69.72	70.37	2.353e+004
Actual Gas Flow (ACFM)	35.86	---	---	---	91.75
Actual Liquid Flow (USGPM)	---	2.025	2.033	2.053	---
Std Gas Flow (MMSCFD)	0.8112	0.2480	0.2193	8.147e-002	11.92
Molecular Weight	43.96	42.41	45.42	66.40	18.53
Mass Density (lb/ft3)	1.820	71.10	67.07	36.08	4.406
Molar Density (lbmole/ft3)	4.139e-002	1.677	1.477	0.5434	0.2377
Average Liquid Density (lbmole/ft3)	0.7165	1.598	1.501	0.5689	1.099
Liq Mass Density @Std Cond (lb/ft3)	31.58	69.06	69.21	38.23	---
Molar Heat Capacity (Btu/lbmole-F)	22.44	26.22	30.99	38.96	12.16
Molar Enthalpy (Btu/lbmole)	-4.363e+004	-1.649e+005	-1.653e+005	-6.861e+004	-3.528e+004
Molar Entropy (Btu/lbmole-F)	35.80	-19.32	-14.80	23.92	35.72
Thermal Conductivity (Btu/hr-ft-F)	1.428e-002	0.2307	0.2193	5.295e-002	2.507e-002
Viscosity (cP)	1.035e-002	39.37	2.867	0.1636	1.456e-002
Surface Tension (dyne/cm)	---	56.85	47.45	10.28	---
Specific Gravity rel Air (rel to air)	1.518	---	---	---	0.6399
Kinematic Viscosity (cSt)	0.3552	34.57	2.669	0.2831	0.2064
Comp Mole Frac (Hydrogen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Helium)	0.0000	0.0000	0.0000	0.0000	0.0002
Comp Mole Frac (Nitrogen)	0.0000	0.0000	0.0000	0.0000	0.0038
Comp Mole Frac (CO2)	0.0000	0.0060	0.0000	0.0000	0.0150
Comp Mole Frac (Methane)	0.0000	0.0000	0.0000	0.0000	0.8826
Comp Mole Frac (Ethane)	0.0200	0.0000	0.0000	0.0045	0.0625
Comp Mole Frac (Propane)	0.9700	0.0000	0.0000	0.2274	0.0272
Comp Mole Frac (i-Butane)	0.0050	0.0000	0.0000	0.0816	0.0026
Comp Mole Frac (n-Butane)	0.0050	0.0000	0.0000	0.2425	0.0049
Comp Mole Frac (i-Pentane)	0.0000	0.0000	0.0000	0.0897	0.0006
Comp Mole Frac (n-Pentane)	0.0000	0.0000	0.0000	0.1125	0.0005
Comp Mole Frac (n-Hexane)	0.0000	0.0000	0.0000	0.1009	0.0001
Comp Mole Frac (n-Heptane)	0.0000	0.0000	0.0000	0.1409	0.0000
Comp Mole Frac (n-Octane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Nonane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (n-Decane)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2O)	0.0000	0.4438	0.3780	0.0000	0.0000
Comp Mole Frac (EGlycol)	0.0000	0.5502	0.6220	0.0000	0.0000
Comp Mole Frac (S5-100 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (S1-150 (OIL)*)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (Oxygen)	0.0000	0.0000	0.0000	0.0000	0.0000
Comp Mole Frac (H2S)	***	***	***	***	***



TOROMONT ENERGY SYSTEMS
 1021 Barlow Trail N.E.
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Case Name: \\PLATINUM\PROJECTS\11957 ALTA GAS 12-15MMSCFD GAS PLAN

Unit Set: Field3

Date/Time: Wed Sep 14 10:12:39 2005

Workbook: Case (Main) (continued)

Stream Summary (continued)

Fluid Pkg: All

Name	Overheads	Produced Water	Recycle OH		
Vapour Fraction	1.0000	0.0000	1.0000		
Temperature (F)	94.39	50.15	73.64 *		
Pressure (psia)	250.0 *	78.40	78.40 *		
Molar Flow (lbmole/hr)	6.828	0.0000	6.823 *		
Mass Flow (lb/hr)	201.8	0.0000	201.7		
Std Ideal Liq Vol Flow (barrel/day)	33.66	0.0000	33.64		
Heat Flow (Btu/hr)	-2.822e+005	0.0000	-2.820e+005		
Liquid Fraction	0.0000	1.000	0.0000		
Molar Volume (ft3/lbmole)	20.97	0.3367	70.06		
Actual Volume Flow (barrel/day)	612.0	0.0000	2043		
Actual Gas Flow (ACFM)	2.386	---	7.967		
Actual Liquid Flow (USGPM)	---	0.0000	---		
Std Gas Flow (MMSCFD)	6.218e-002	0.0000	6.214e-002		
Molecular Weight	29.56	18.02	29.56		
Mass Density (lb/ft3)	1.410	53.52	0.4220		
Molar Density (lbmole/ft3)	4.769e-002	2.970	1.427e-002		
Average Liquid Density (lbmole/ft3)	0.8671	3.457	0.8671		
Liq Mass Density @Std Cond (lb/ft3)	---	63.33	---		
Molar Heat Capacity (Btu/lbmole-F)	14.38	18.58	13.12		
Molar Enthalpy (Btu/lbmole)	-4.133e+004	-1.232e+005	-4.133e+004		
Molar Entropy (Btu/lbmole-F)	39.71	11.87	41.85		
Thermal Conductivity (Btu/hr-ft-F)	1.575e-002	0.3392	1.423e-002		
Viscosity (cP)	1.113e-002	1.296	1.026e-002		
Surface Tension (dyne/cm)	---	74.66	---		
Specific Gravity rel Air (rel to air)	1.021	---	1.021		
Kinematic Viscosity (cSt)	0.4928	1.512	1.518		
Comp Mole Frac (Hydrogen)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (Helium)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (Nitrogen)	0.0005	0.0000	0.0005 *		
Comp Mole Frac (CO2)	0.0236	0.0001	0.0236 *		
Comp Mole Frac (Methane)	0.4579	0.0000	0.4580 *		
Comp Mole Frac (Ethane)	0.2419	0.0000	0.2418 *		
Comp Mole Frac (Propane)	0.1798	0.0000	0.1797 *		
Comp Mole Frac (i-Butane)	0.0241	0.0000	0.0241 *		
Comp Mole Frac (n-Butane)	0.0517	0.0000	0.0517 *		
Comp Mole Frac (i-Pentane)	0.0083	0.0000	0.0083 *		
Comp Mole Frac (n-Pentane)	0.0081	0.0000	0.0081 *		
Comp Mole Frac (n-Hexane)	0.0026	0.0000	0.0026 *		
Comp Mole Frac (n-Heptane)	0.0014	0.0000	0.0014 *		
Comp Mole Frac (n-Octane)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (n-Nonane)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (n-Decane)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (H2O)	0.0000	0.9999	0.0000 *		
Comp Mole Frac (EGlycol)	0.0000	0.0001	0.0000 *		
Comp Mole Frac (S5-100 (OIL)*)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (S1-150 (OIL)*)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (Oxygen)	0.0000	0.0000	0.0000 *		
Comp Mole Frac (H2S)	***	***	***		

