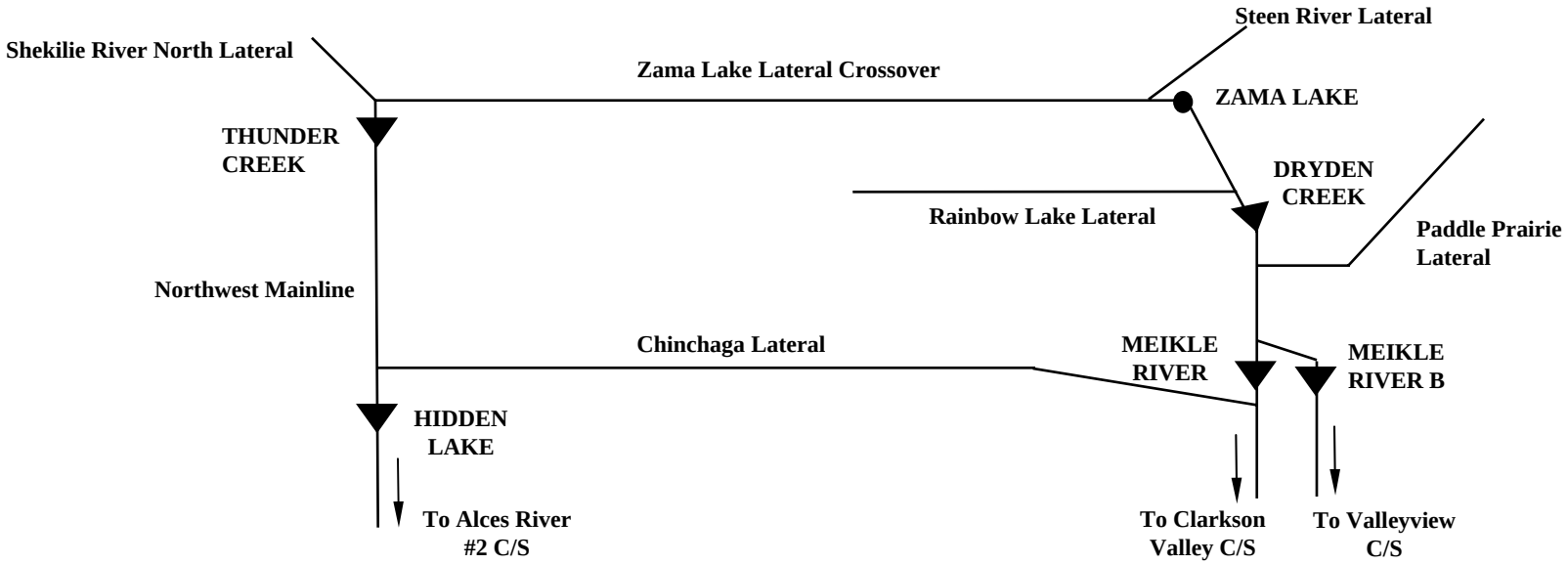
APPENDIX 5

FLOW SCHEMATICS

Flow schematics for each of the design areas are presented for each applicable season and Gas Year.

The flow schematics may differ from the design flow requirements shown in Appendix 4. This is because the detailed flow schematic information is taken directly from the hydraulic simulations whereas design flow requirements are estimated for the entire design area.

2008/09 GAS YEAR
UPPER PEACE RIVER DESIGN SUB AREA
WINTER DESIGN



LEGEND
- EXISTING RECEIPT POINTS
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)

NOTES:
- NOT ALL EXISTING RECEIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
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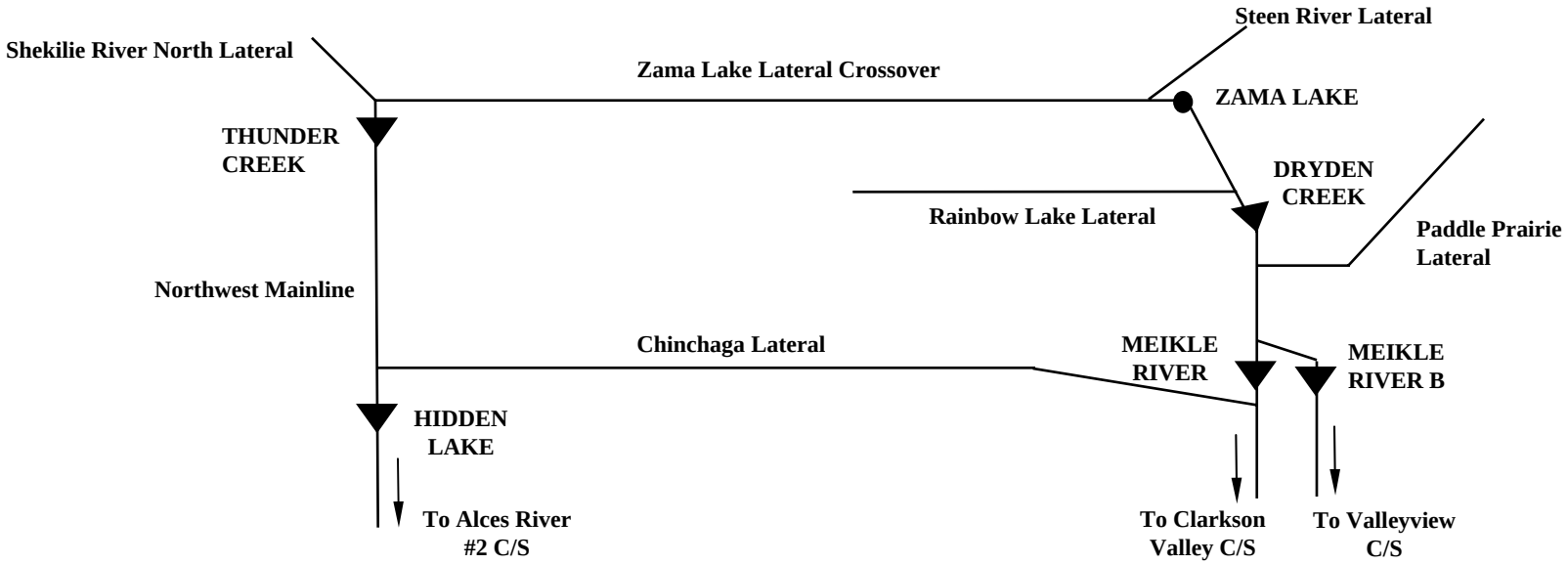
- POWER IS AT SITE CONDITIONS
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS

COMPRESSOR STATION SUMMARY

	THUNDER CREEK	HIDDEN LAKE	DRYDEN CREEK	MEIKLE RIVER	MEIKLE RIVER B
P_{sct} (kPa_g)	7256	6435	4450	3451	3451
P_{dis} (kPa_g)	7256	6435	5255	5010	5650
Flow ($10^6 m^3/d$ @ STP)	5.6	16.9	4.9	3.0	3.4
Fuel ($10^3 m^3/d$ @ STP)	0	0	11	18	22
Power Avail (MW)	2.8	9.3	3.4	6.5	3.3
Power Req'd (MW)	0.0	0.0	1.2	1.6	2.4
Compression Ratio	N/A	N/A	1.18	1.44	1.62
T_{sct} (°C)	3.6	3.7	2.3	1.0	1.0
T_{dis} (°C)	3.6	3.7	16.3	32.7	42.8
T_{amb} (°C)	-1.0	1.0	0.0	0.0	0.0

2008/09 GAS YEAR
UPPER PEACE RIVER DESIGN SUB AREA
SUMMER DESIGN



LEGEND
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- EXISTING PIPELINE (NGTL)

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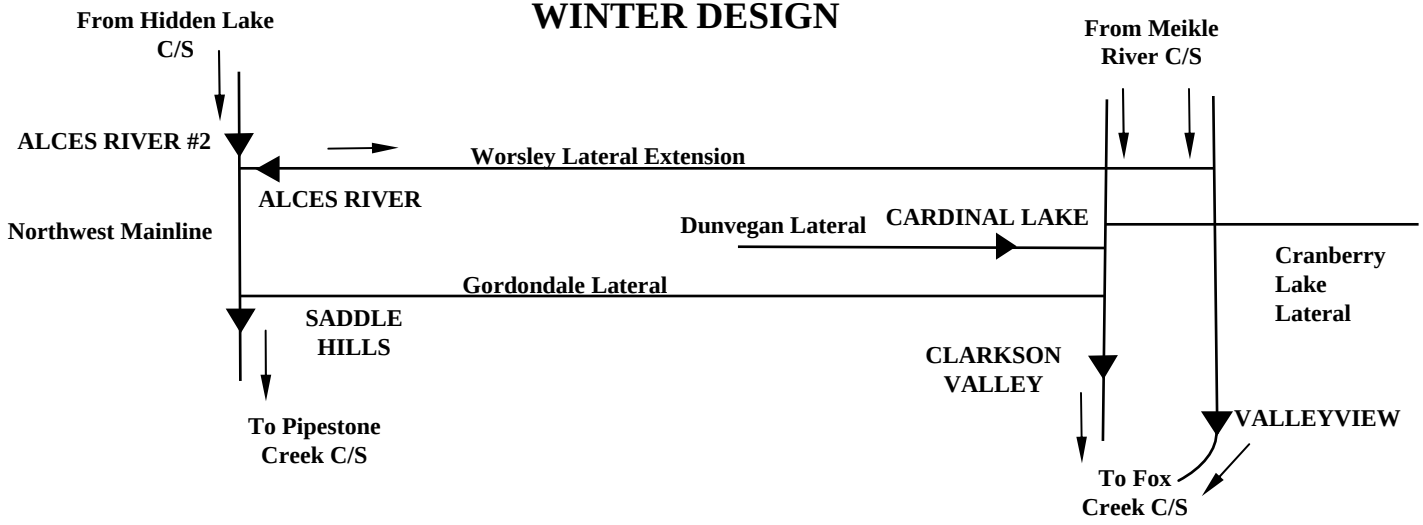
COMPRESSOR STATION SUMMARY

	THUNDER CREEK	HIDDEN LAKE	DRYDEN CREEK	MEIKLE RIVER	MEIKLE RIVER B
P_{sct} (kPa_g)	7981	7187	4497	3640	3640
P_{dis} (kPa_g)	7981	7187	5455	5820	5396
Flow ($10^6 m^3/d$ @ STP)	5.6	16.9	4.9	6.3	0.0
Fuel ($10^3 m^3/d$ @ STP)	0	0	14	44	0.0
Power Avail (MW)	2.6	8.1	3.0	5.7	2.9
Power Req'd (MW)	0.0	0.0	1.4	4.7	0.0
Compression Ratio	N/A	N/A	1.21	1.58	N/A
T_{sct} (°C)	11.5	12.5	12.2	11.3	11.3
T_{dis} (°C)	11.5	12.5	29.2	44.9	15.0
T_{amb} (°C)	19.0	19.0	19.0	19.0	19.0

2008/09 GAS YEAR
CENTRAL PEACE RIVER DESIGN SUB AREA
WINTER DESIGN



LEGEND

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- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)

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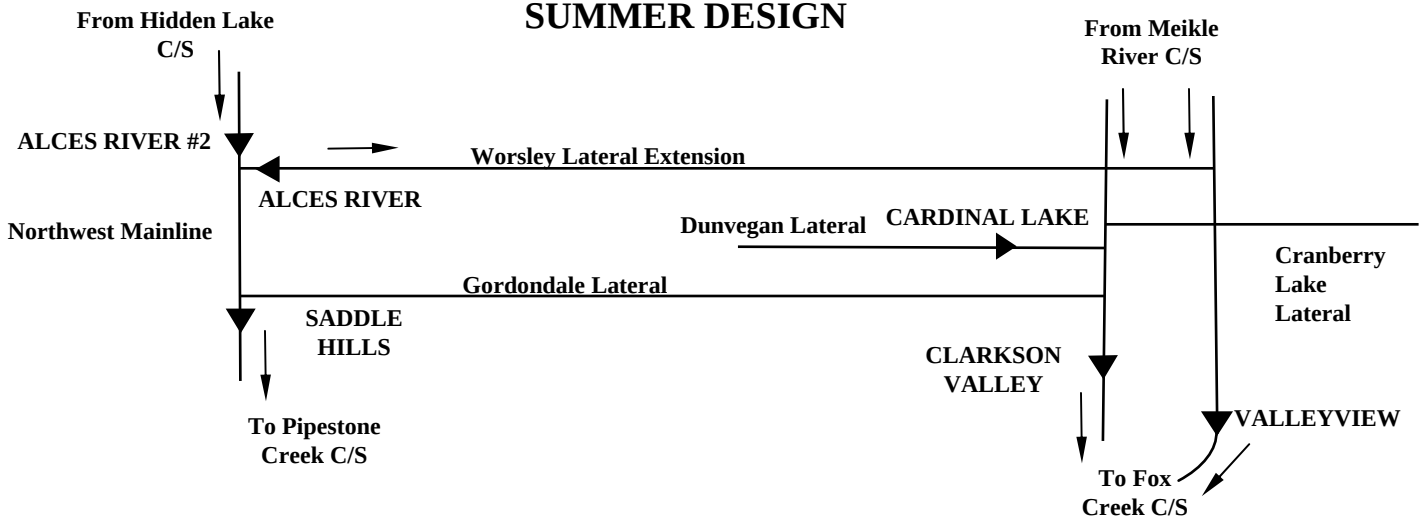
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- ALCES RIVER STATION IS OFF, LINE PRESSURES INDICATED

COMPRESSOR STATION SUMMARY

	ALCES RIVER	ALCES RIVER #2	SADDLE HILLS	CARDINAL LAKE	CLARKSON VALLEY	VALLEY-VIEW
P_{sct} (kPa_g)	6270	5795	5200	4896	4004	4908
P_{dis} (kPa_g)	5790	5795	6537	4896	5846	5412
Flow ($10^6 m^3/d$ @ STP)	0	20.6	24.6	8.2	21.1	0
Fuel ($10^3 m^3/d$ @ STP)	0	0	66	0	97	0
Power Avail (MW)	3.1	10.0	16.2	2.8	15.0	3.0
Power Req'd (MW)	0.0	0.0	7.4	0.0	10.5	0.0
Compression Ratio	N/A	N/A	1.25	N/A	1.45	N/A
T_{sct} (°C)	10.5	3.0	1.9	4.5	0.7	6.9
T_{dis} (°C)	3.0	3.0	19.8	4.4	30.8	3.8
T_{amb} (°C)	1.0	1.0	2.0	2.0	3.0	3.0

2008/09 GAS YEAR
CENTRAL PEACE RIVER DESIGN SUB AREA
SUMMER DESIGN



LEGEND

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- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)

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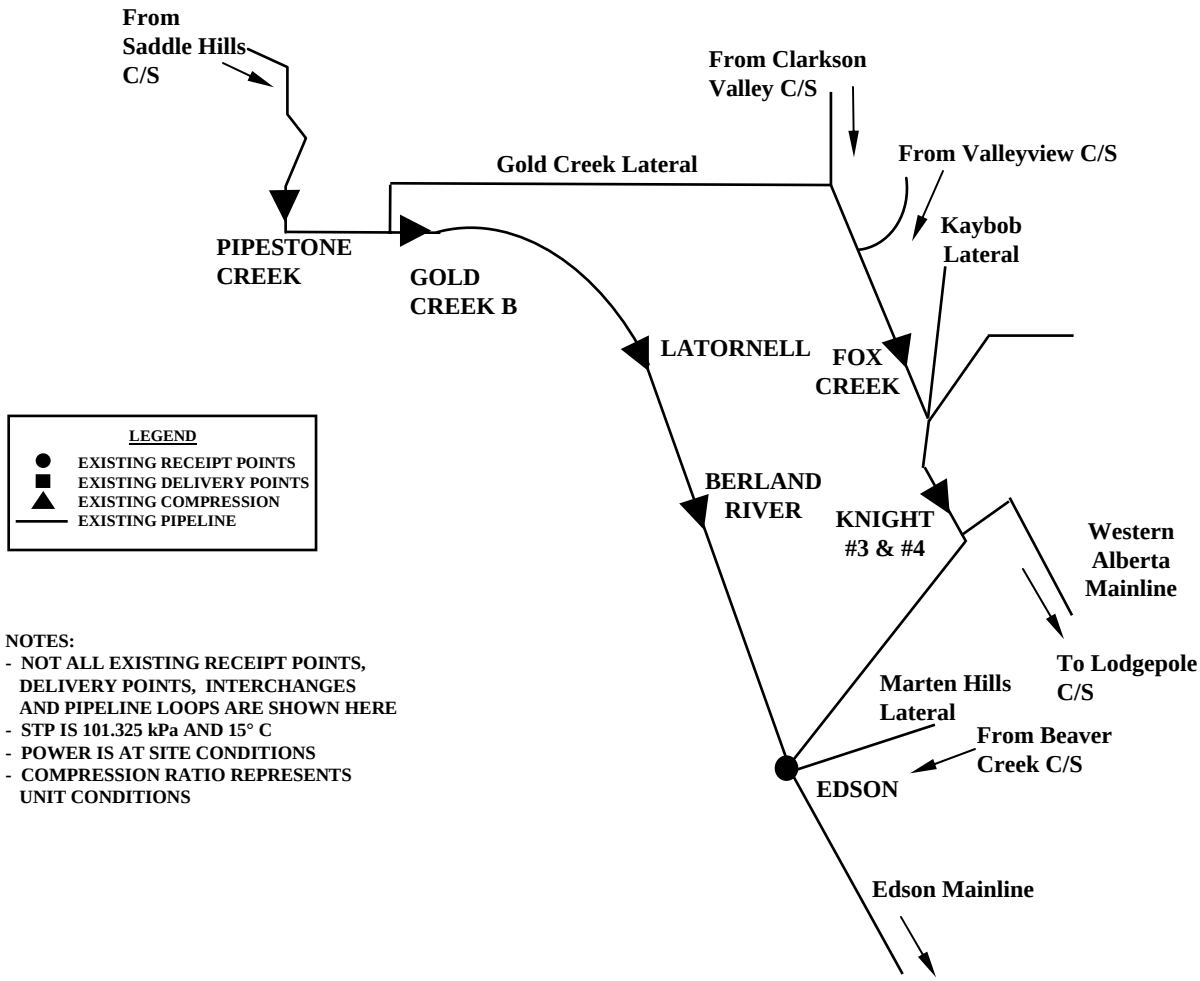
- ALCES RIVER STATION IS OFF, LINE PRESSURES INDICATED

COMPRESSOR STATION SUMMARY

	ALCES RIVER	ALCES RIVER #2	SADDLE HILLS	CARDINAL LAKE	CLARKSON VALLEY	VALLEY-VIEW
P_{sct} (kPa_g)	6875	6603	6067	5432	4768	5405
P_{dis} (kPa_g)	6600	6603	7647	5432	6100	5770
Flow ($10^6 m^3/d$ @ STP)	0	20.6	27.4	4.8	18.4	0
Fuel ($10^3 m^3/d$ @ STP)	0	0	71	0	75	0
Power Avail (MW)	2.8	9.2	14.6	2.8	13.7	2.6
Power Req'd (MW)	0.0	0.0	8.8	0.0	6.2	0.0
Compression Ratio	N/A	N/A	1.26	N/A	1.27	N/A
T_{sct} (°C)	14.9	12.1	11.8	13.9	12.1	12.5
T_{dis} (°C)	12.1	12.1	30.7	13.9	32.4	13.8
T_{amb} (°C)	19.0	19.0	19.0	19.0	19.0	19.0

2008/09 GAS YEAR
LOWER PEACE RIVER DESIGN SUB AREA
WINTER DESIGN



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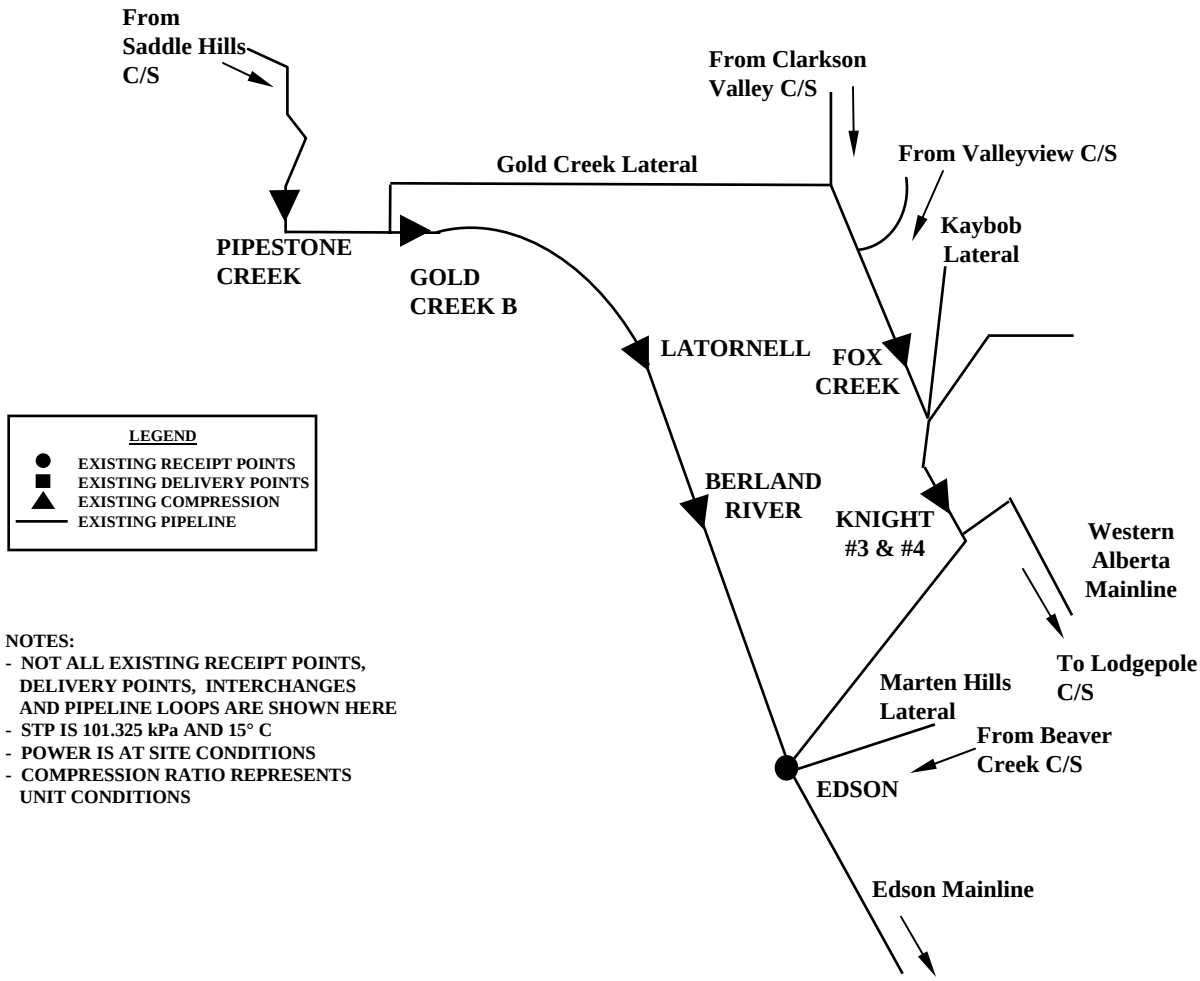
COMPRESSOR STATION SUMMARY

	PIPESTONE CREEK	GOLD CREEK B	LATOR-NELL	BERLAND RIVER	FOX CREEK	KNIGHT #3 & #4
P_{sct} (kPa_g)	6178	4937	5491	6667	4424	5293
P_{dis} (kPa_g)	6178	7129	7522	8186	6002	6286
Flow ($10^6 m^3/d$ @ STP)	31.1	62.1	62.8	76.2	27.3	30.1
Fuel ($10^3 m^3/d$ @ STP)	0	227	172	157	108	60
Power Avail (MW)	28.0	34.1	27.6	24.0	11.5	26.1
Power Req'd (MW)	0.0	34.2	27.6	24.0	11.2	8.0
Compression Ratio	N/A	1.44	1.36	1.22	1.35	1.18
T_{sct} (°C)	7.9	3.3	20.1	24.9	7.0	16.6
T_{dis} (°C)	7.8	34.6	44.9	42.7	31.6	32.4
T_{amb} (°C)	3.0	3.0	3.0	3.0	3.0	3.0

2008/09 GAS YEAR
LOWER PEACE RIVER DESIGN SUB AREA
SUMMER DESIGN



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COMPRESSOR STATION SUMMARY

	PIPESTONE CREEK	GOLD CREEK B	LATOR-NELL	BERLAND RIVER	FOX CREEK	KNIGHT #3 & #4
P_{sct} (kPa_g)	7260	6072	6616	7326	4932	5389
P_{dis} (kPa_g)	7260	8150	8200	8248	6000	6200
Flow ($10^6 m^3/d$ @ STP)	34.0	65.1	64.9	81.0	24.6	31.3
Fuel ($10^3 m^3/d$ @ STP)	0	204	136	121	85	58
Power Avail (MW)	25.1	30.9	25.2	21.8	10.3	23.5
Power Req'd (MW)	0.0	27.6	18.8	15.7	6.7	7.8
Compression Ratio	N/A	1.34	1.24	1.12	1.21	1.15
T_{sct} (°C)	18.4	12.7	26.2	27.3	14.9	19.1
T_{dis} (°C)	18.4	38.1	43.4	38.5	31.1	33.8
T_{amb} (°C)	19.0	18.0	18.0	18.0	18.0	18.0

2008/09 GAS YEAR
MARTEN HILLS DESIGN AREA
WINTER DESIGN

COMPRESSOR STATION SUMMARY

	BEAVER CREEK
P_{sct} (kPa_g)	6102
P_{dis} (kPa_g)	6894
Flow ($10^6 m^3/d$ @ STP)	3.8
Fuel ($10^3 m^3/d$ @ STP)	13
Power Avail (MW)	2.8
Power Req'd (MW)	0.8
Compression Ratio	1.13
T_{sct} (°C)	4.3
T_{dis} (°C)	17.4
T_{amb} (°C)	3.0

LEGEND

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- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)

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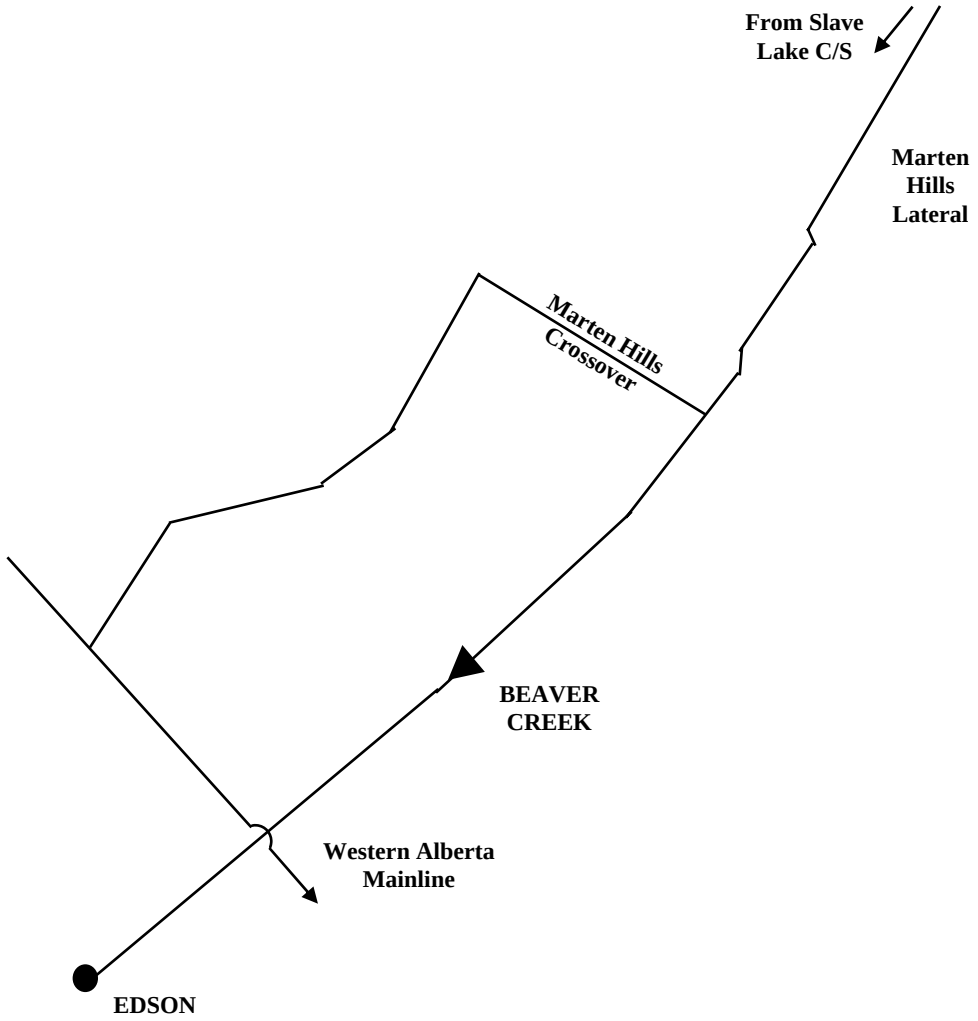
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS



2008/09 GAS YEAR
MARTEN HILLS DESIGN AREA
SUMMER DESIGN

COMPRESSOR STATION SUMMARY

	BEAVER CREEK
P_{sct} (kPa_g)	4969
P_{dis} (kPa_g)	6933
Flow ($10^6 m^3/d$ @ STP)	4.2
Fuel ($10^3 m^3/d$ @ STP)	25
Power Avail (MW)	2.6
Power Req'd (MW)	2.1
Compression Ratio	1.39
T_{sct} (°C)	10.3
T_{dis} (°C)	40.1
T_{amb} (°C)	18.0

LEGEND

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- EXISTING PIPELINE (NGTL)

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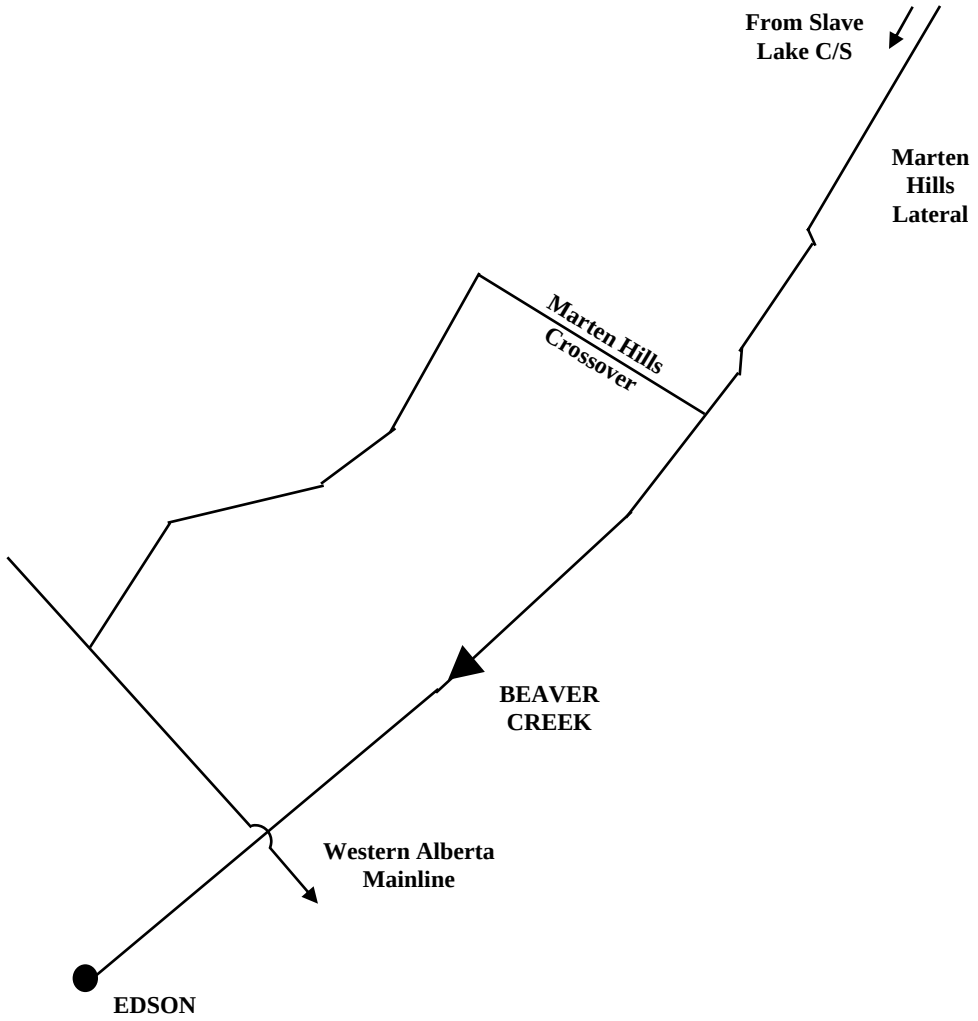

2008/09 GAS YEAR
NORTH OF BENS LAKE DESIGN AREA
WINTER DESIGN

COMPRESSOR STATION SUMMARY

	FIELD LK	HANMORE LK B,C	BENS LK A	BENS LK B	BENS LK C,D	SMOKY LK D	PELICAN LK
P_{sct}(kPa$_g$)	6067	6084	6127	6121	6137	6148	8789
P_{dis}(kPa$_g$)	8275	6084	6125	7327	6137	6148	8789
Flow ($10^6 m^3/d$)	5.4	0.0	0.0	3.5	-1.2	-3.0	0.5
Fuel ($10^3 m^3/d$)	22.8	0.0	0.0	15.4	0.0	0.0	0.0
Power Avail (MW)	6.3	6.6	3.5	3.2	7.4	15.2	3.2
Power Req (MW)	2.3	0.0	0.0	1.0	0.0	0.0	0.0
Compression Ratio	1.4	N/A	N/A	1.2	N/A	N/A	N/A
T_{sct} (˚C)	4.9	N/A	N/A	5.9	5.0	12.0	5.1
T_{dis} (˚C)	31.6	N/A	N/A	23.8	5.0	12.0	5.1
T_{amb} (˚C)	2.0	2.0	2.0	2.0	2.0	2.0	2.0

	PAUL LK B2	WOODENHOUSE #1	BUFFALO NORTH	WAND. RIVER	LEISMER	SLAVE LK
P_{sct}(kPa$_g$)	6028	5702	8755	6162	6106	6286
P_{dis}(kPa$_g$)	6027	9000	8754	6162	6106	6286
Flow ($10^6 m^3/d$)	6.2	8.3	5.1	-0.1	0.6	1.6
Fuel ($10^3 m^3/d$)	0.0	46.6	0.0	0.0	0.0	0.0
Power Avail (MW)	14.5	10.6	5.0	2.9	0.9	3.8
Power Req (MW)	0.0	5.4	0.0	0.0	0.0	0.0
Compression Ratio	N/A	1.6	N/A	N/A	N/A	N/A
T_{sct} (˚C)	4.7	4.2	8.5	5.0	5.3	5.5
T_{dis} (˚C)	4.7	43.9	8.5	5.0	5.3	5.5
T_{amb} (˚C)	2.0	2.0	2.0	2.0	2.0	3.0

LEGEND
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- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISITING CONTROL VALVE
- OTHER PIPELINE SYSTEMS
- PROPOSED PIPELINE

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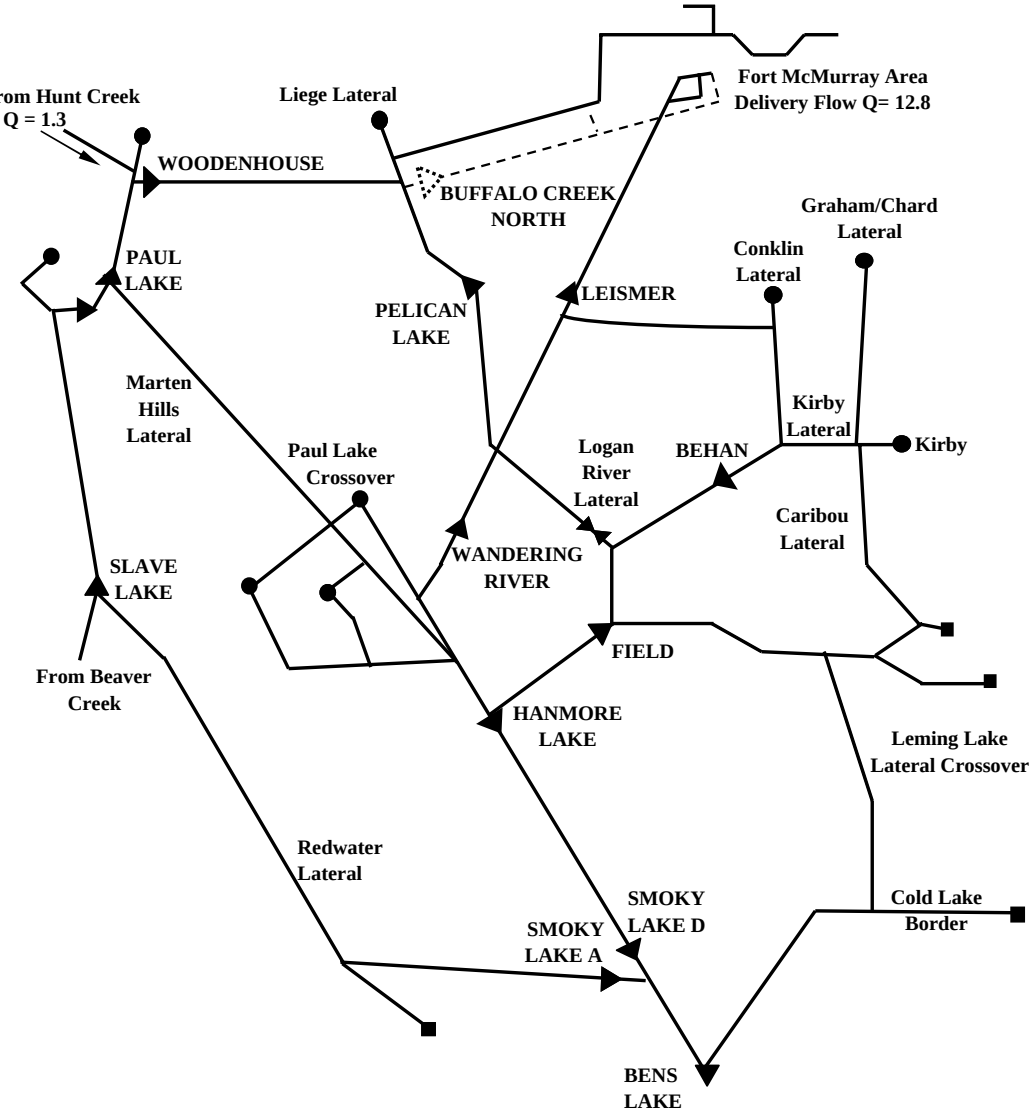
- COMPRESSOR CONDITIONS FOR COMPRESSION AT PAUL LAKE, SMOKY LAKE 'A', HANMORE LAKE 'A', AND BEHAN NOT SHOWN
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d

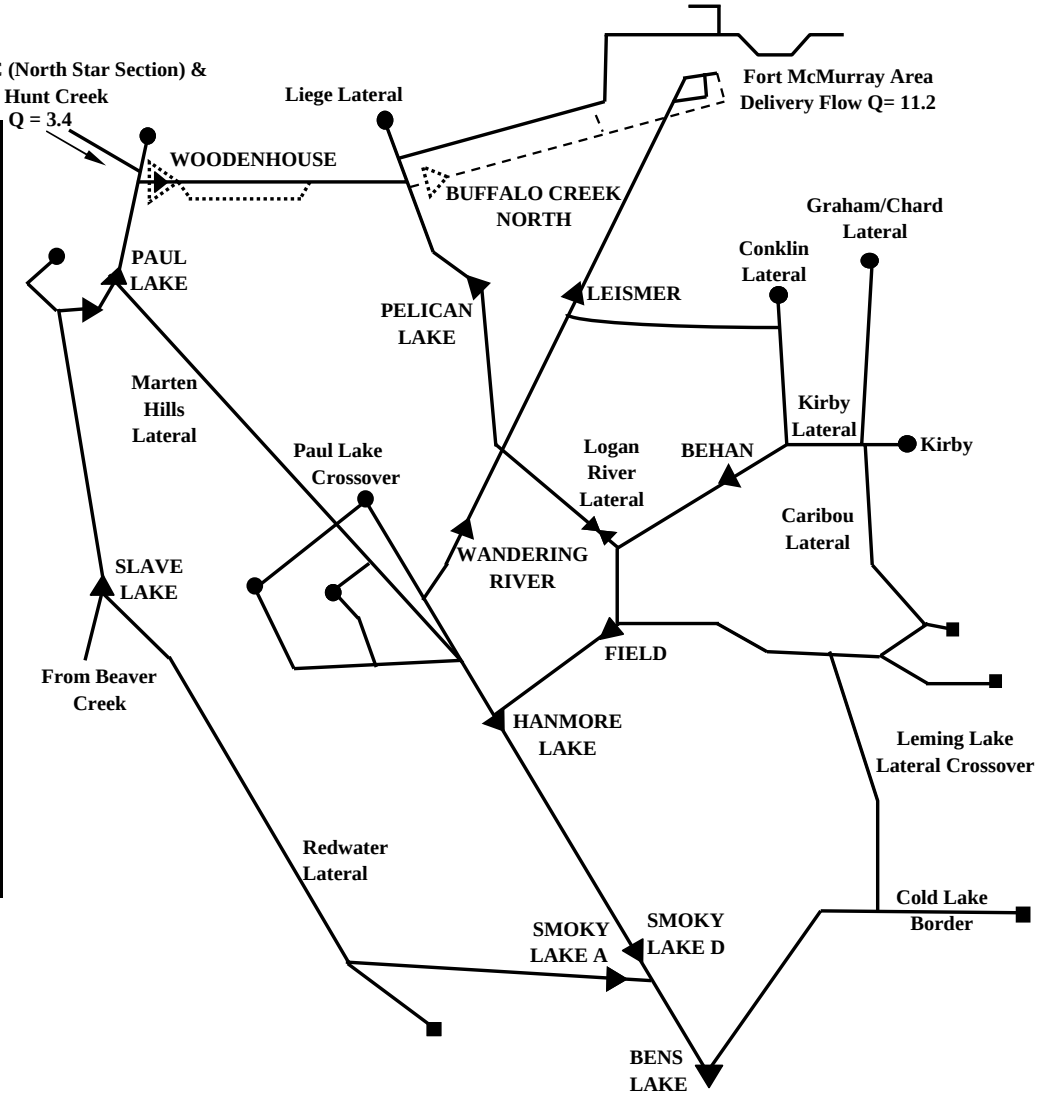


2008/09 GAS YEAR
NORTH OF BENS LAKE DESIGN AREA
SUMMER DESIGN WITH PROPOSED FACILITIES

COMPRESSOR STATION SUMMARY

	FIELD LK	HANMORE LK B,C	BENS LK A	BENS LK B	BENS LK C,D	SMOKY LK D	PELICAN LK
P_{sct}(kPa$_g$)	6389	6335	6302	6291	6289	6363	6469
P_{dis}(kPa$_g$)	6389	6335	6298	6290	6289	6363	6469
Flow ($10^6 m^3/d$)	-1.2	0.0	0.0	3.5	7.8	6.3	0.1
Fuel ($10^3 m^3/d$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Avail (MW)	5.7	5.9	3.5	2.8	6.8	13.8	2.8
Power Req (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compression Ratio	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T_{sct} (˚C)	11.0	N/A	15.0	14.6	N/A	11.1	11.0
T_{dis} (˚C)	11.0	N/A	14.6	14.6	N/A	11.1	11.0
T_{amb} (˚C)	19.0	19.0	20.0	20.0	20.0	19.0	20.0

	PAUL LK B2	WOODENHOUSE #1	WOODENHOUSE #2	BUFFALO NORTH	WAND. RIVER	LEISMER	SLAVE LK
P_{sct}(kPa$_g$)	6437	6376	N/A	6452	6433	6376	5481
P_{dis}(kPa$_g$)	6437	6375	N/A	6451	6433	6376	5480
Flow ($10^6 m^3/d$)	2.2	7.2	0.0	4.9	-0.1	0.6	4.7
Fuel ($10^3 m^3/d$)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power Avail (MW)	14.0	9.7	14.0	4.5	2.8	0.9	3.4
Power Req (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Compression Ratio	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T_{sct} (˚C)	33.3	13.5	N/A	11.8	11.0	11.2	11.4
T_{dis} (˚C)	33.3	13.5	N/A	11.8	11.0	11.2	11.4
T_{amb} (˚C)	19.0	19.0	N/A	20.0	20.0	20.0	18.0



LEGEND
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- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
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2008/09 GAS YEAR
NORTH OF BENS LAKE DESIGN AREA
MAXIMUM DAY DELIVERY
WINTER DESIGN

COMPRESSOR STATION SUMMARY

	FIELD LK	HANMORE LK B,C	BENS LK A	BENS LK B	BENS LK C,D	SMOKY LK D	PELICAN LK
P_{sct}(kPa$_g$)	7571	7542	7412	N/A	7413	8070	5290
P_{dis}(kPa$_g$)	8275	8275	8092	N/A	8435	8077	8444
Flow ($10^6 m^3/d$)	13.6	32.5	2.3	0.0	30.6	-32.3	4.4
Fuel ($10^3 m^3/d$)	17.5	42.0	6.4	0.0	57.5	0.0	26.7
Power Avail (MW)	6.3	6.6	3.5	3.2	7.4	15.2	3.2
Power Req (MW)	1.7	4.2	0.4	0.0	6.3	0.0	2.9
Compression Ratio	1.1	1.1	1.1	N/A	1.1	N/A	1.6
T_{sct} (˚C)	4.9	6.6	7.5	N/A	10.1	11.1	4.3
T_{dis} (˚C)	12.3	14.4	16.7	N/A	21.0	11.1	44.3
T_{amb} (˚C)	2.0	2.0	2.0	2.0	2.0	2.0	2.0

	PAUL LK B2	WOODENHOUSE #1	BUFFALO NORTH	WAND. RIVER	LEISMER	SLAVE LK
P_{sct}(kPa$_g$)	7272	7348	7196	6231	5449	4995
P_{dis}(kPa$_g$)	9926	9930	9045	8824	6764	6767
Flow ($10^6 m^3/d$)	21.9	23.3	15.8	6.3	2.9	4.7
Fuel ($10^3 m^3/d$)	72.5	78.3	40.2	32.1	11.0	25.8
Power Avail (MW)	14.5	10.6	5.0	2.9	0.9	3.8
Power Req (MW)	9.4	9.5	5.0	2.9	0.9	2.2
Compression Ratio	1.4	1.3	1.3	1.4	1.2	1.3
T_{sct} (˚C)	9.9	6.5	9.8	0.1	3.7	4.4
T_{dis} (˚C)	36.2	31.4	29.1	28.7	23.7	32.7
T_{amb} (˚C)	2.0	2.0	2.0	2.0	2.0	3.0

LEGEND
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- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISITING CONTROL VALVE
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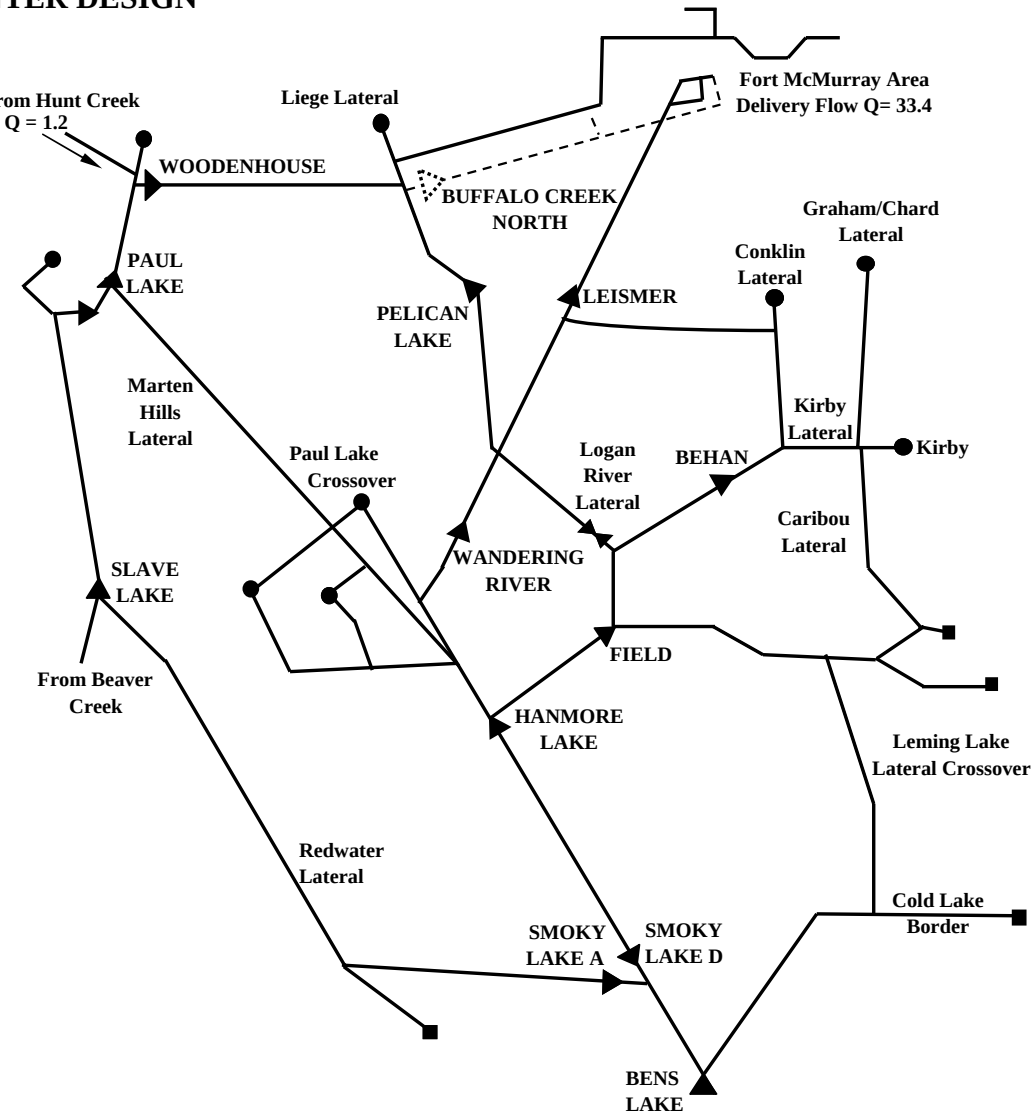
- PROPOSED PIPELINE

NOTE:
- NOT ALL EXISTING RECIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
- FLOW AND FUEL IS @ STP (101.325 kPa AND 15° C)
- POWER IS AT SITE CONDITIONS
- COMPRESSOR CONDITIONS FOR COMPRESSION AT PAUL LAKE, SMOKY LAKE 'A', HANMORE LAKE 'A', AND BEHAN NOT SHOWN
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d

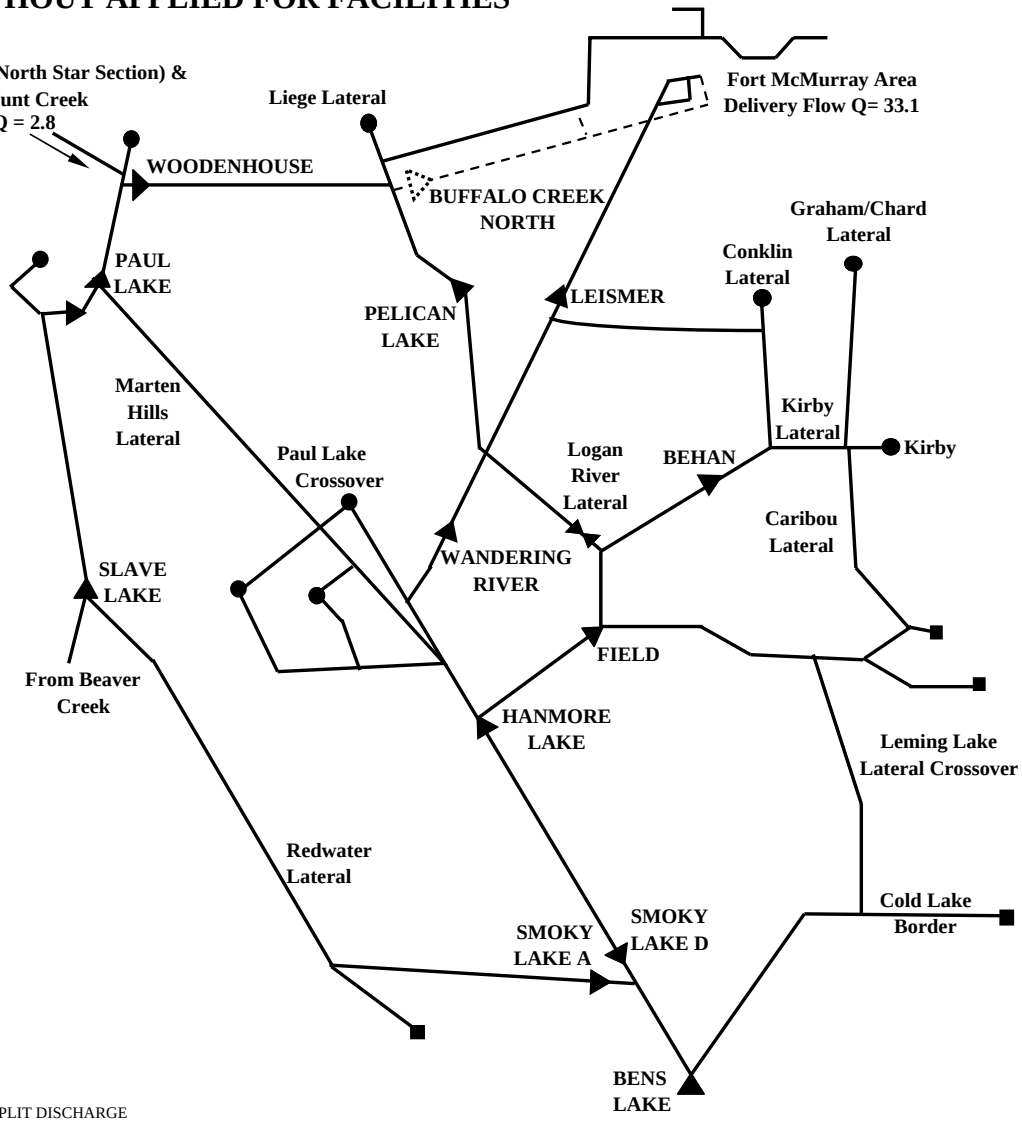


2008/09 GAS YEAR
NORTH OF BENS LAKE DESIGN AREA
MAXIMUM DAY DELIVERY
SUMMER CAPABILITY WITHOUT APPLIED FOR FACILITIES

COMPRESSOR STATION SUMMARY

	FIELD LK	HANMORE LK B,C	BENS LK A	BENS LK B	BENS LK C,D	SMOKY LK D	PELICAN LK
P_{sct}(kPa$_g$)	6933	6791	5736	N/A	7311	7851	7122
P_{dis}(kPa$_g$)	8275 / 9000	7807	8093	N/A	8097	7857	9782
Flow (10^6m^3/d)	14.0	29.0	4.3	0.0	24.7	-28.9	6.5
Fuel (10^3m^3/d)	43.1	54.9	28.8	0.0	46.7	0.0	26.6
Power Avail (MW)	5.7	5.9	3.5	2.8	6.8	13.8	2.8
Power Req (MW)	4.4	5.9	2.5	0.0	4.5	0.0	2.8
Compression Ratio	N/A	1.1	1.4	N/A	1.1	N/A	1.4
T_{sct} (˚C)	11.5	12.3	12.1	N/A	14.9	18.1	10.4
T_{dis} (˚C)	N/A	24.4	46.6	N/A	25.0	18.1	37.0
T_{amb} (˚C)	19.0	19.0	20.0	20.0	20.0	19.0	20.0

	PAUL LK B2	WOODENHOUSE #1	BUFFALO NORTH	WAND. RIVER	LEISMER	SLAVE LK
P_{sct}(kPa$_g$)	7088	7808	7292	6253	7567	4783
P_{dis}(kPa$_g$)	9927	9930	8729	9650	7567	6338
Flow (10^6m^3/d)	19.5	22.6	17.4	5.3	1.2	5.1
Fuel (10^3m^3/d)	74.1	63.2	36.8	35.9	0.0	27.8
Power Avail (MW)	14.0	9.7	4.5	2.8	0.9	3.4
Power Req (MW)	9.8	7.6	4.5	3.2	0.0	2.5
Compression Ratio	1.4	1.3	1.2	1.5	N/A	1.3
T_{sct} (˚C)	21.8	15.2	15.0	7.8	11.2	10.5
T_{dis} (˚C)	51.8	35.7	30.6	45.0	11.2	40.3
T_{amb} (˚C)	19.0	19.0	20.0	20.0	20.0	18.0



LEGEND
- EXISTING RECEIPT POINTS
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISIITING CONTROL VALVE
- OTHER PIPELINE SYSTEMS
- PROPOSED PIPELINE

NOTE:
- NOT ALL EXISTING RECIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
- FLOW AND FUEL IS @ STP (101.325 kPa AND 15° C)
- POWER IS AT SITE CONDITIONS
- COMPRESSOR CONDITIONS FOR COMPRESSION AT PAUL LAKE, SMOKY LAKE 'A', HANMORE LAKE 'A', AND BEHAN NOT SHOWN
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d
- TWO UNITS AT FIELD LAKE COMPRESSOR STATION CAPABLE OF SPLIT DISCHARGE

2008/09 GAS YEAR
NORTH OF BENS LAKE DESIGN AREA
MAXIMUM DAY DELIVERY
SUMMER DESIGN WITH PROPOSED FACILITIES

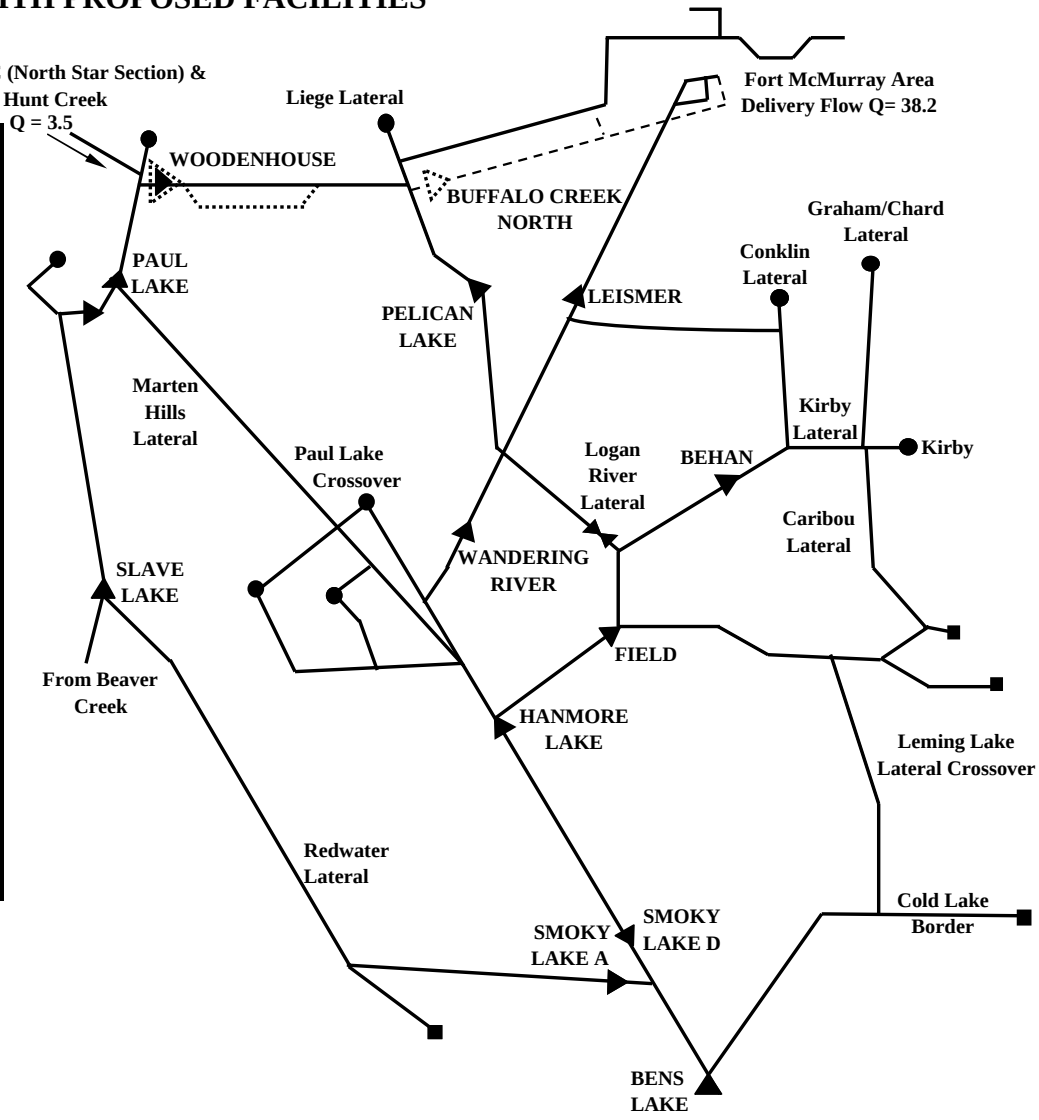
COMPRESSOR STATION SUMMARY

	FIELD LK	HANMORE LK B,C	BENS LK A	BENS LK B	BENS LK C,D	SMOKY LK D	PELICAN LK
P_{sct}(kPa$_g$)	7560	7322	6984	N/A	7095	7743	7502
P_{dis}(kPa$_g$)	8275	8266	8090	N/A	8105	7751	9930
Flow ($10^6 m^3/d$)	13.2	33.4	3.1	0.0	31.0	-33.3	3.9
Fuel ($10^3 m^3/d$)	18.1	54.9	9.5	0.0	59.3	0.0	16.3
Power Avail (MW)	5.7	5.9	3.5	2.8	6.8	13.8	2.8
Power Req (MW)	1.7	5.9	0.8	0.0	6.8	0.0	1.5
Compression Ratio	1.1	1.1	1.2	N/A	1.1	N/A	1.3
T_{sct} (˚C)	11.3	13.4	14.6	N/A	16.1	18.7	11.1
T_{dis} (˚C)	19.2	24.0	29.9	N/A	28.4	18.7	34.5
T_{amb} (˚C)	19.0	19.0	20.0	20.0	20.0	19.0	20.0

	PAUL LK B2	WOODENHOUSE #1	WOODENHOUSE #2	BUFFALO NORTH	WAND. RIVER	LEISMER	SLAVE LK
P_{sct}(kPa$_g$)	6902	6174	6174	9128	6686	7473	5143
P_{dis}(kPa$_g$)	9927	9387	9387	9930	9650	7472	6925
Flow ($10^6 m^3/d$)	24.7	7.2	21.2	20.6	5.3	3.1	5.1
Fuel ($10^3 m^3/d$)	93.0	37.4	90.7	25.1	30.0	0.0	28.0
Power Avail (MW)	14.0	9.7	14.0	4.5	2.8	0.9	3.4
Power Req (MW)	12.9	4.3	12.5	2.6	2.6	0.0	2.5
Compression Ratio	1.4	1.5	1.5	1.1	1.4	N/A	1.3
T_{sct} (˚C)	14.7	12.1	12.1	22.6	8.0	10.7	11.3
T_{dis} (˚C)	46.3	48.7	48.3	30.0	39.0	10.7	40.8
T_{amb} (˚C)	19.0	19.0	5.0	20.0	20.0	20.0	18.0

LEGEND
- EXISTING RECEIPT POINTS
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISITING CONTROL VALVE
- OTHER PIPELINE SYSTEMS
- PROPOSED PIPELINE

NOTE:
- NOT ALL EXISTING RECIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
- FLOW AND FUEL IS @ STP (101.325 kPa AND 15° C)
- POWER IS AT SITE CONDITIONS
- COMPRESSOR CONDITIONS FOR COMPRESSION AT PAUL LAKE, SMOKY LAKE 'A', HANMORE LAKE 'A', AND BEHAN NOT SHOWN
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d



2008/09 GAS YEAR
SOUTH OF BENS LAKE DESIGN AREA
WINTER DESIGN

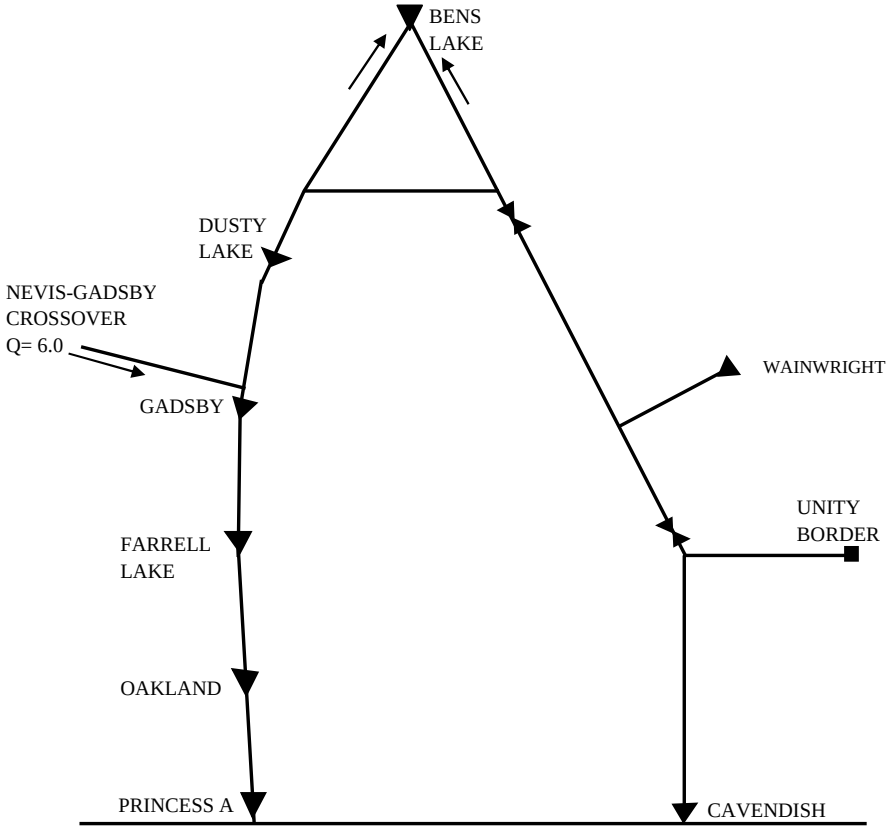
COMPRESSOR STATION SUMMARY

	DUSTY LAKE	GADSBY	FARRELL LAKE	OAKLAND
P_{sct}(kPa$_g$)	6094	6060	5936	5832
P_{dis}(kPa$_g$)	6094	6059	5935	5830
Flow ($10^6 m^3/d$)	3.4	10.0	11.9	13.7
Fuel ($10^3 m^3/d$)	0.0	0.0	0.0	0.0
Power Avail (MW)	29.0	28.8	27.6	13.8
Power Req (MW)	0.0	0.0	0.0	0.0
Compression Ratio	N/A	N/A	N/A	N/A
T_{sct} (˚C)	5.6	10.8	5.2	5.0
T_{dis} (˚C)	5.6	10.8	5.2	5.0
T_{amb} (˚C)	2.0	3.0	4.0	4.0

	PRINCESS A	CAVENDISH
P_{sct}(kPa$_g$)	4799	3659
P_{dis}(kPa$_g$)	5680	4677
Flow ($10^6 m^3/d$)	7.1	5.0
Fuel ($10^3 m^3/d$)	8.9	15.7
Power Avail (MW)	17.0	4.5
Power Req (MW)	1.8	1.8
Compression Ratio	1.2	1.3
T_{sct} (˚C)	5.6	3.8
T_{dis} (˚C)	20.5	25.2
T_{amb} (˚C)	6.0	5.0

LEGEND
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISTING CONTROL VALVE

NOTE:
- NOT ALL EXISTING RECIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
- FLOW AND FUEL @ STP (101.325 kPa AND 15° C)
- POWER IS AT SITE CONDITIONS
- COMPRESSOR CONDITIONS FOR LATERAL COMPRESSION AT WAINWRIGHT NOT SHOWN
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d



2008/09 GAS YEAR
SOUTH OF BENS LAKE DESIGN AREA
SUMMER DESIGN WITH PROPOSED
NORTH OF BENS LAKE DESIGN AREA FACILITIES

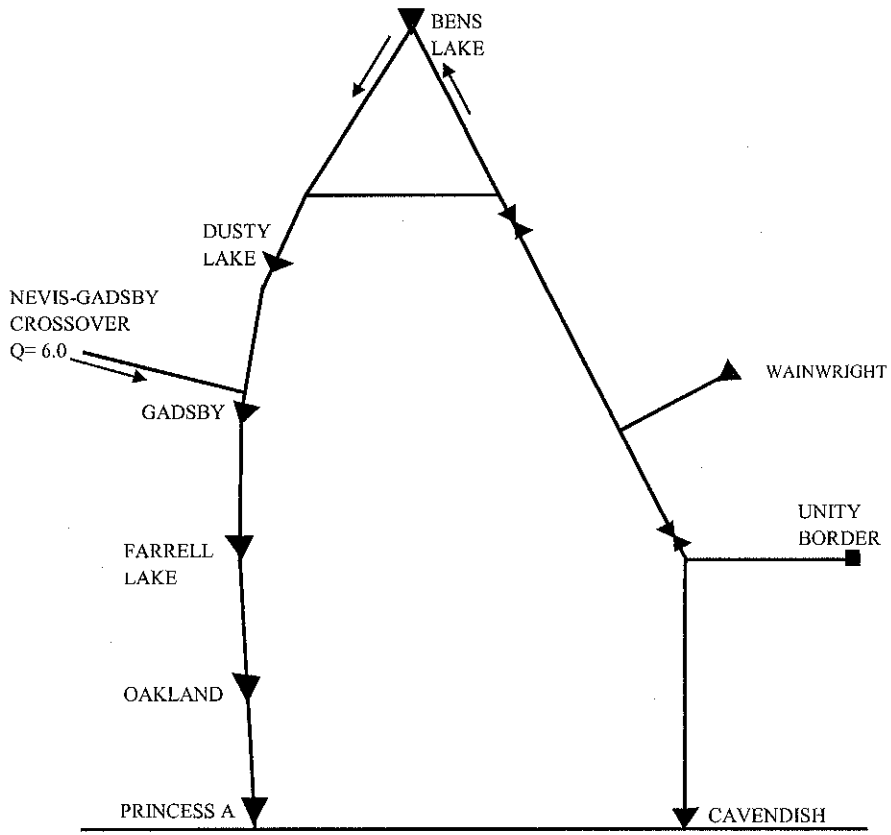
COMPRESSOR STATION SUMMARY

	DUSTY LAKE	GADSBY	FARRELL LAKE	OAKLAND
P_{sct}(kPa$_g$)	6091	5823	5358	6352
P_{dis}(kPa$_g$)	6090	5816	6729	6344
Flow ($10^6 m^3/d$)	16.3	22.9	24.7	26.6
Fuel ($10^3 m^3/d$)	0.0	0.0	62.6	0.0
Power Avail (MW)	25.8	25.8	25.0	12.2
Power Req (MW)	0.0	0.0	7.8	0.0
Compression Ratio	N/A	N/A	1.3	N/A
T_{sct} (°C)	13.8	13.7	12.7	17.1
T_{dis} (°C)	13.8	13.7	32.0	17.0
T_{amb} (°C)	20.0	20.0	20.0	20.0

	PRINCESS A	CAVENDISH
P_{sct}(kPa$_g$)	4703	4072
P_{dis}(kPa$_g$)	5680	4681
Flow ($10^6 m^3/d$)	6.6	5.1
Fuel ($10^3 m^3/d$)	9.4	9.7
Power Avail (MW)	17.0	4.0
Power Req (MW)	1.9	1.1
Compression Ratio	1.2	1.1
T_{sct} (°C)	14.1	12.6
T_{dis} (°C)	16.3	25.4
T_{amb} (°C)	22.0	23.0

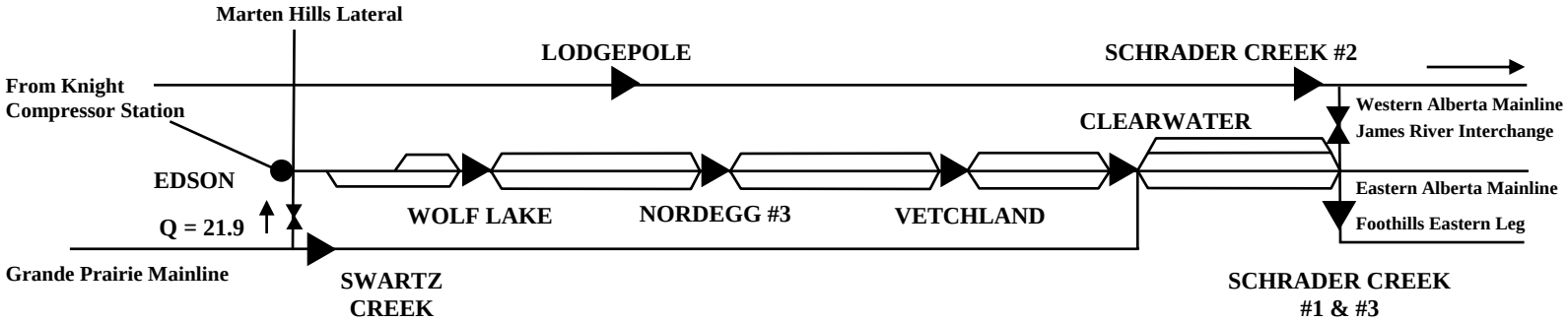
LEGEND
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISTING CONTROL VALVE

NOTE:
- NOT ALL EXISTING RECIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
- FLOW AND FUEL @ STP (101.325 kPa AND 15° C)
- POWER IS AT SITE CONDITIONS
- COMPRESSOR CONDITIONS FOR LATERAL COMPRESSION AT WAINWRIGHT NOT SHOWN
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d



Eastern Alberta Mainline

2008/09 GAS YEAR
EDSON MAINLINE DESIGN SUB AREA
WINTER DESIGN



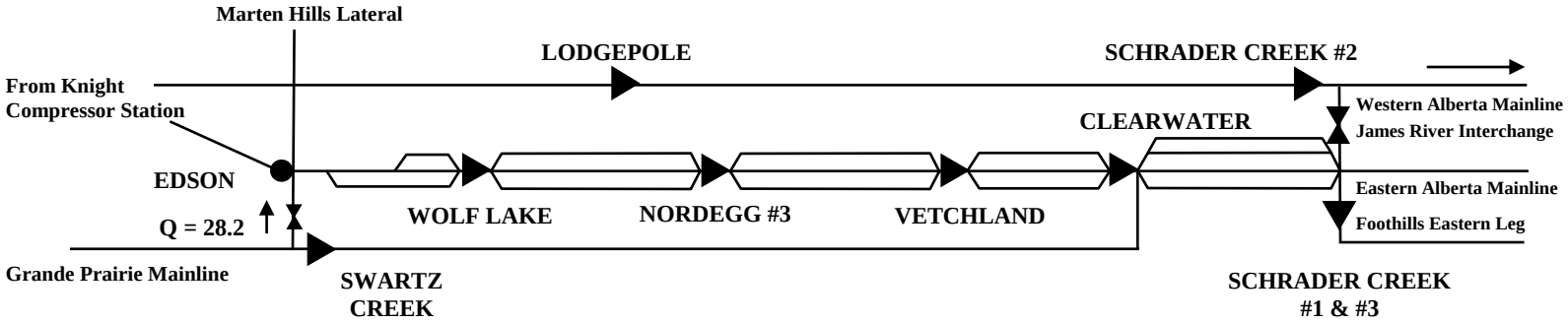
COMPRESSOR STATION SUMMARY

	SWARTZ CREEK	WOLF LAKE	NORDEGG #3	VETCHLAND	CLEARWATER	LODGEPOLE
P_{sct} (kPa_g)	6205	5666	5823	5441	5546	5197
P_{dis} (kPa_g)	7738	6275	7932	5936	6450	6021
Flow ($10^6 m^3/d$ @ STP)	69.7	63.7	69.5	69.5	89.6	15.4
Fuel ($10^3 m^3/d$ @ STP)	172	90	195	91	152	25
Power Avail (MW)	27.3	23.8	30.9	46.5	41.0	2.9
Power Req'd (MW)	23.7	9.5	30.9	10.1	19.8	2.9
Compression Ratio	1.24	1.11	1.36	1.09	1.16	1.16
T_{sct} (°C)	20.9	12.3	24.4	8.3	12.6	6.0
T_{dis} (°C)	41.0	21.2	44.6	16.9	25.9	17.3
T_{amb} (°C)	3.0	3.0	4.0	4.0	4.0	3.0

LEGEND
- EXISTING RECEIPT POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISTING CONTROL VALVE

NOTE:
- NOT ALL EXISTING RECEIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
- STP IS 101.325 kPa AND 15° C
- POWER IS AT SITE CONDITIONS
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- FOR SCHRADER CREEK EAST COMPRESSOR STATION CONDITIONS SEE EASTERN ALBERTA MAINLINE DESIGN SUB AREA
- FOR SCHRADER CREEK #2 COMPRESSOR STATION CONDITIONS SEE WESTERN ALBERTA MAINLINE DESIGN SUB AREA
- Q, FLOW IN $10^6 m^3/d$

2008/09 GAS YEAR
EDSON MAINLINE DESIGN SUB AREA
SUMMER DESIGN



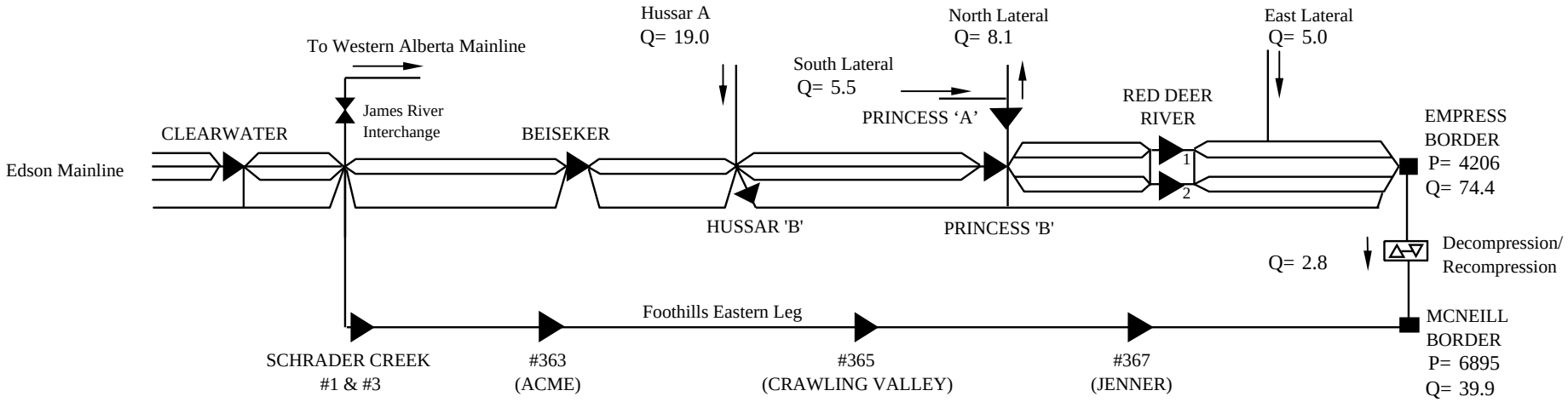
COMPRESSOR STATION SUMMARY

	SWARTZ CREEK	WOLF LAKE	NORDEGG #3	VETCHLAND	CLEARWATER	LODGEPOLE
P_{sct} (kPa_g)	6081	5379	5852	5093	5451	5669
P_{dis} (kPa_g)	7704	6388	7835	6046	6450	5669
Flow ($10^6 m^3/d$ @ STP)	68.2	71.6	68.0	78.6	97.4	12.6
Fuel ($10^3 m^3/d$ @ STP)	178	129	189	141	181	0.0
Power Avail (MW)	24.7	21.6	28.7	42.4	38.0	2.5
Power Req'd (MW)	24.7	17.6	28.7	20.5	25.3	0.0
Compression Ratio	1.26	1.18	1.33	1.18	1.18	N/A
T_{sct} (°C)	21.0	16.1	27.6	15.2	23.2	12.6
T_{dis} (°C)	42.6	30.7	44.6	30.7	37.8	12.6
T_{amb} (°C)	18.0	18.0	18.0	18.0	18.0	18.0

LEGEND
- EXISTING RECEIPT POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISTING CONTROL VALVE

NOTE:
- NOT ALL EXISTING RECEIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HERE
- STP IS 101.325 kPa AND 15° C
- POWER IS AT SITE CONDITIONS
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- FOR SCHRADER CREEK EAST COMPRESSOR STATION CONDITIONS SEE EASTERN ALBERTA MAINLINE DESIGN SUB AREA
- FOR SCHRADER CREEK #2 COMPRESSOR STATION CONDITIONS SEE WESTERN ALBERTA MAINLINE DESIGN SUB AREA
- Q, FLOW IN $10^6 m^3/d$

2008/09 GAS YEAR
EASTERN ALBERTA MAINLINE DESIGN SUB AREA
(JAMES RIVER TO PRINCESS AND PRINCESS TO EMPRESS/MCNEILL)
WINTER DESIGN



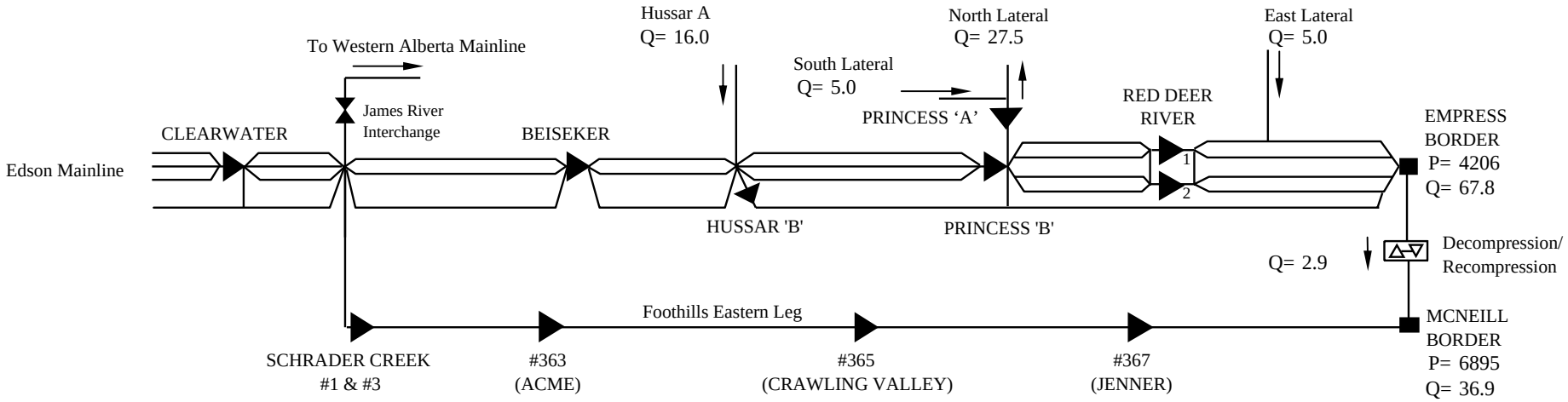
COMPRESSOR STATION SUMMARY

	BEISEKER	HUSSAR B	PRINCESS B	RED DEER RIVER #1	RED DEER RIVER #2	SCHRADER CREEK #1 & #3	#363	#365	#367
P_{sct}(kPa$_g$)	5248	5107	4696	4404	4404	5398	7593	6888	6131
P_{dis}(kPa$_g$)	5246	5107	4695	4403	4403	8229	7590	6884	7544
Flow ($10^6 m^3/d$ @ STP)	51.9	35.1	43.5	28.5	21.6	37.1	37.1	37.1	37.1
Fuel ($10^3 m^3/d$ @ STP)	0	0	0	0	0	157	0	0	92
Power Avail (MW)	20.7	13.5	20.6	24.2	24.2	37.6	21.8	21.4	40.6
Power Required (MW)	0.0	0.0	0.0	0.0	0.0	22.8	0.0	0.0	10.1
Compression Ratio	N/A	N/A	N/A	N/A	N/A	1.52	N/A	N/A	1.23
T_{sct} (˚C)	6.3	5.1	4.1	3.5	3.8	10.0	19.5	10.6	5.5
T_{dis} (˚C)	6.3	5.1	4.1	3.5	3.8	34.9	19.5	10.5	22.1
T_{amb} (˚C)	5.0	5.0	6.0	6.0	6.0	4.0	4.0	5.0	6.0

LEGEND
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISTING CONTROL VALVE

NOTE:
- NOT ALL EXISTING RECIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HER
- STP IS 101.325 kPa AND 15° C
- POWER IS AT SITE CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d
- P, PRESSURE IS IN kPa_g
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- FOR CLEARWATER COMPRESSOR STATION CONDITIONS SEE EDSON MAINLINE DESIGN SUB ARE
- FOR PRINCESS 'A' COMPRESSOR STATION CONDITIONS SEE THE SOUTH OF BENS LAKE DESIGN ARE

2008/09 GAS YEAR
EASTERN ALBERTA MAINLINE DESIGN SUB AREA
(JAMES RIVER TO PRINCESS AND PRINCESS TO EMPRESS/MCNEILL)
SUMMER DESIGN



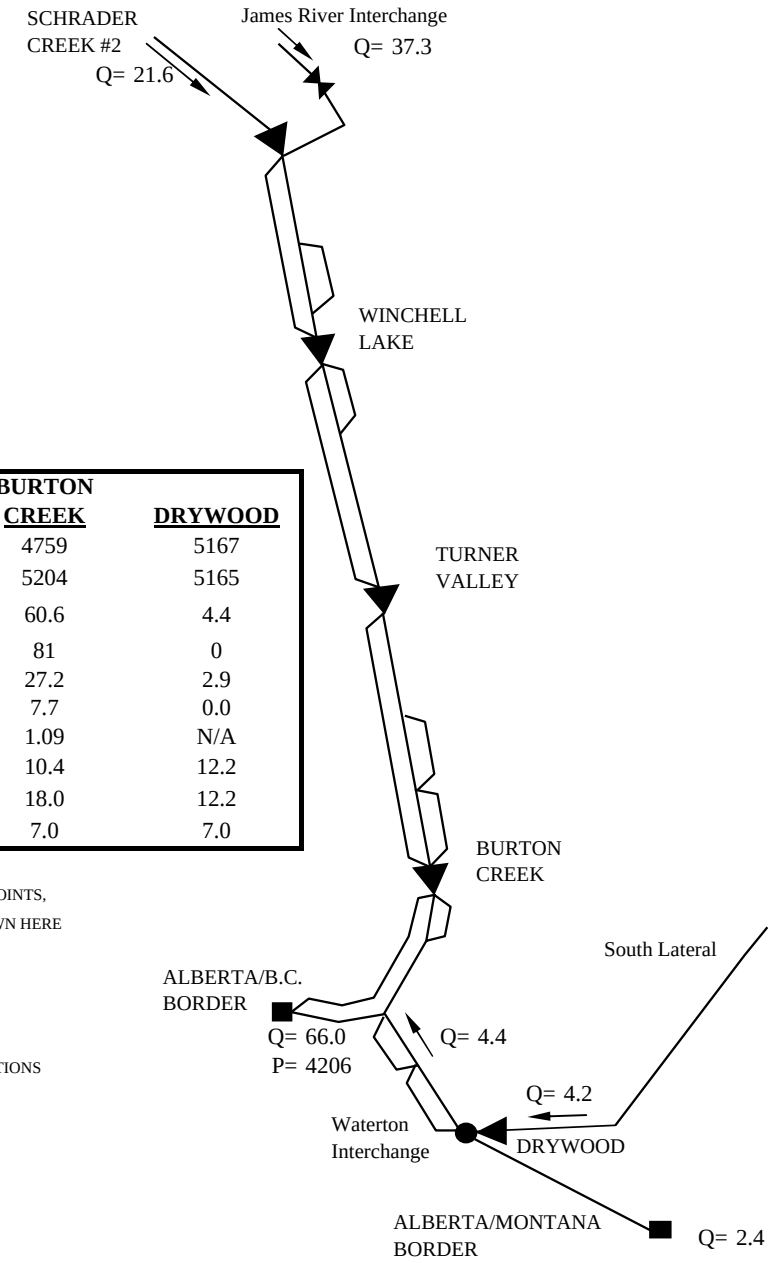
COMPRESSOR STATION SUMMARY

	BEISEKER	HUSSAR B	PRINCESS B	RED DEER RIVER #1	RED DEER RIVER #2	SCHRADER CREEK #1 & #3	#363	#365	#367
P_{sct}(kPa$_g$)	5638	5384	4741	4378	4378	5990	7261	6613	5919
P_{dis}(kPa$_g$)	5636	5383	4739	4377	4377	7825	7258	6609	7476
Flow ($10^6 m^3$/d @ STP)	67.3	42.0	45.9	25.7	19.5	34.1	34.1	34.1	34.0
Fuel ($10^3 m^3$/d @ STP)	0	0	0	0	0	109	0	0	93
Power Avail (MW)	18.6	11.9	17.9	21.5	21.5	33.3	19.2	18.1	36.2
Power Required (MW)	0.0	0.0	0.0	0.0	0.0	13.7	0.0	0.0	10.9
Compression Ratio	N/A	N/A	N/A	N/A	N/A	1.30	N/A	N/A	1.26
T_{sct} (˚C)	18.2	15.4	12.7	12.7	13.1	21.9	23.4	17.0	13.4
T_{dis} (˚C)	18.1	15.4	12.6	12.7	13.1	34.9	23.4	16.9	32.5
T_{amb} (˚C)	20.0	21.0	22.0	22.0	22.0	18.0	19.0	21.0	22.0

LEGEND
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISTING CONTROL VALVE

NOTE:
- NOT ALL EXISTING RECIPT POINTS, DELIVERY POINTS, INTERCHANGES AND PIPELINE LOOPS ARE SHOWN HER
- STP IS 101.325 kPa AND 15° C
- POWER IS AT SITE CONDITIONS
- Q, FLOW IS IN 10^6 m^3/d
- P, PRESSURE IS IN kPa$_g$
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS
- FOR CLEARWATER COMPRESSOR STATION CONDITIONS SEE EDSON MAINLINE DESIGN SUB ARE
- FOR PRINCESS 'A' COMPRESSOR STATION CONDITIONS SEE THE SOUTH OF BENS LAKE DESIGN ARE

2008/09 GAS YEAR
WESTERN ALBERTA MAINLINE DESIGN SUB AREA
WINTER DESIGN



COMPRESSOR STATION SUMMARY

	SCHRADER CREEK #2	WINCHELL LAKE	TURNER VALLEY	BURTON CREEK	DRYWOOD
P_{sct}(kPa$_g$)	3773	4337	4548	4759	5167
P_{dis}(kPa$_g$)	5200	5635	5500	5204	5165
Flow ($10^6 m^3$/d @ STP)	21.6	61.7	59.5	60.6	4.4
Fuel ($10^3 m^3$/d @ STP)	69	159	135	81	0
Power Avail (MW)	13.1	23.2	45.6	27.2	2.9
Power Required (MW)	9.6	23.2	17.9	7.7	0.0
Compression Ratio	1.37	1.29	1.21	1.09	N/A
T_{sct} (˚C)	1.9	8.5	18.0	10.4	12.2
T_{dis} (˚C)	28.7	18.9	23.7	18.0	12.2
T_{amb} (˚C)	4.0	5.0	6.0	7.0	7.0

LEGEND
- EXISTING RECEIPT POINTS
- EXISTING DELIVERY POINTS
- EXISTING COMPRESSION
- EXISTING PIPELINE (NGTL)
- EXISTING CONTROL VALVE

NOTE:
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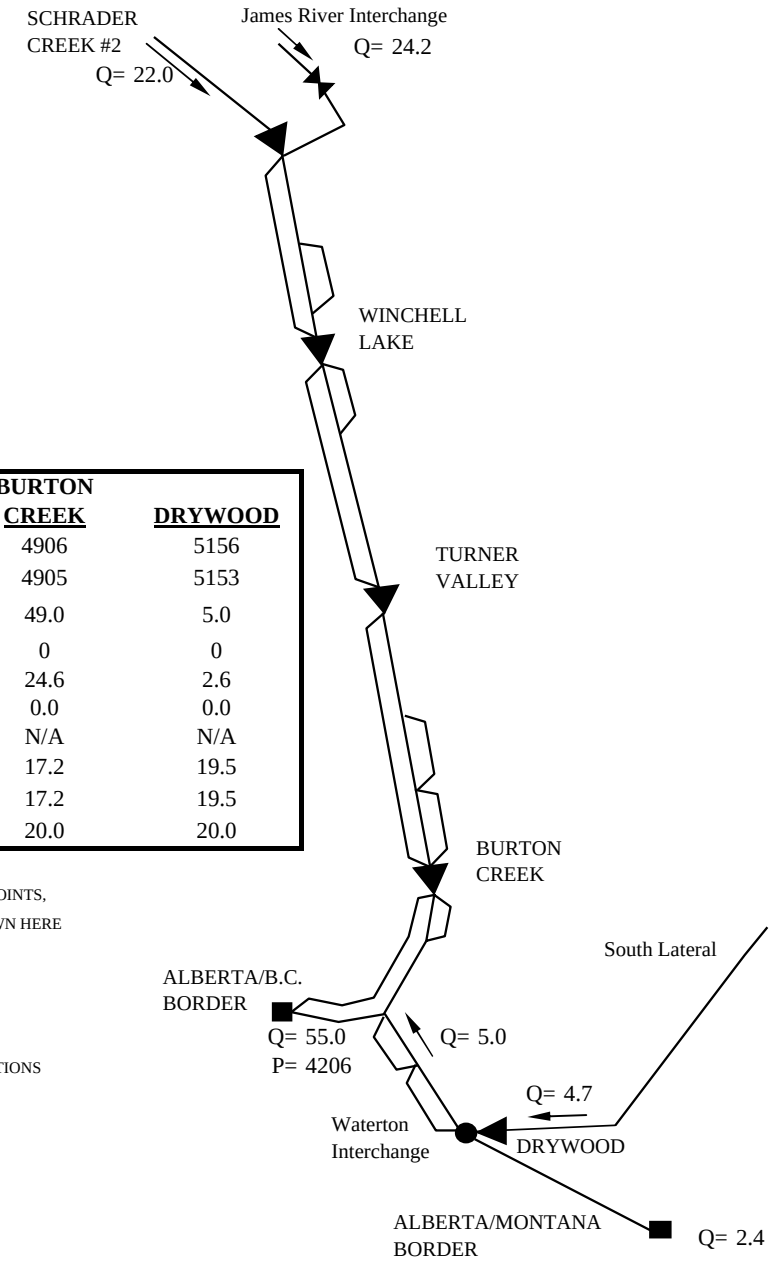
- STP IS 101.325 kPa AND 15° C
- Q, FLOW IS IN 10^6 m^3/d
- P, PRESSURE IS IN kPa$_g$
- POWER IS AT SITE CONDITIONS
- COMPRESSION RATIO REPRESENTS UNIT CONDITIONS

2008/09 GAS YEAR
WESTERN ALBERTA MAINLINE DESIGN SUB AREA
SUMMER DESIGN



COMPRESSOR STATION SUMMARY

	SCHRADER CREEK #2	WINCHELL LAKE	TURNER VALLEY	BURTON CREEK	DRYWOOD
P_{sct}(kPa$_g$)	3954	5312	4570	4906	5156
P_{dis}(kPa$_g$)	5825	5309	5420	4905	5153
Flow ($10^6 m^3$/d @ STP)	22.0	49.1	47.7	49.0	5.0
Fuel ($10^3 m^3$/d @ STP)	76	0	112	0	0
Power Avail (MW)	11.8	21.1	41.7	24.6	2.6
Power Required (MW)	11.8	0.0	13.4	0.0	0.0
Compression Ratio	1.46	N/A	1.18	N/A	N/A
T_{sct} (˚C)	7.5	21.6	23.3	17.2	19.5
T_{dis} (˚C)	39.2	21.6	28.2	17.2	19.5
T_{amb} (˚C)	18.0	19.0	19.0	20.0	20.0

LEGEND
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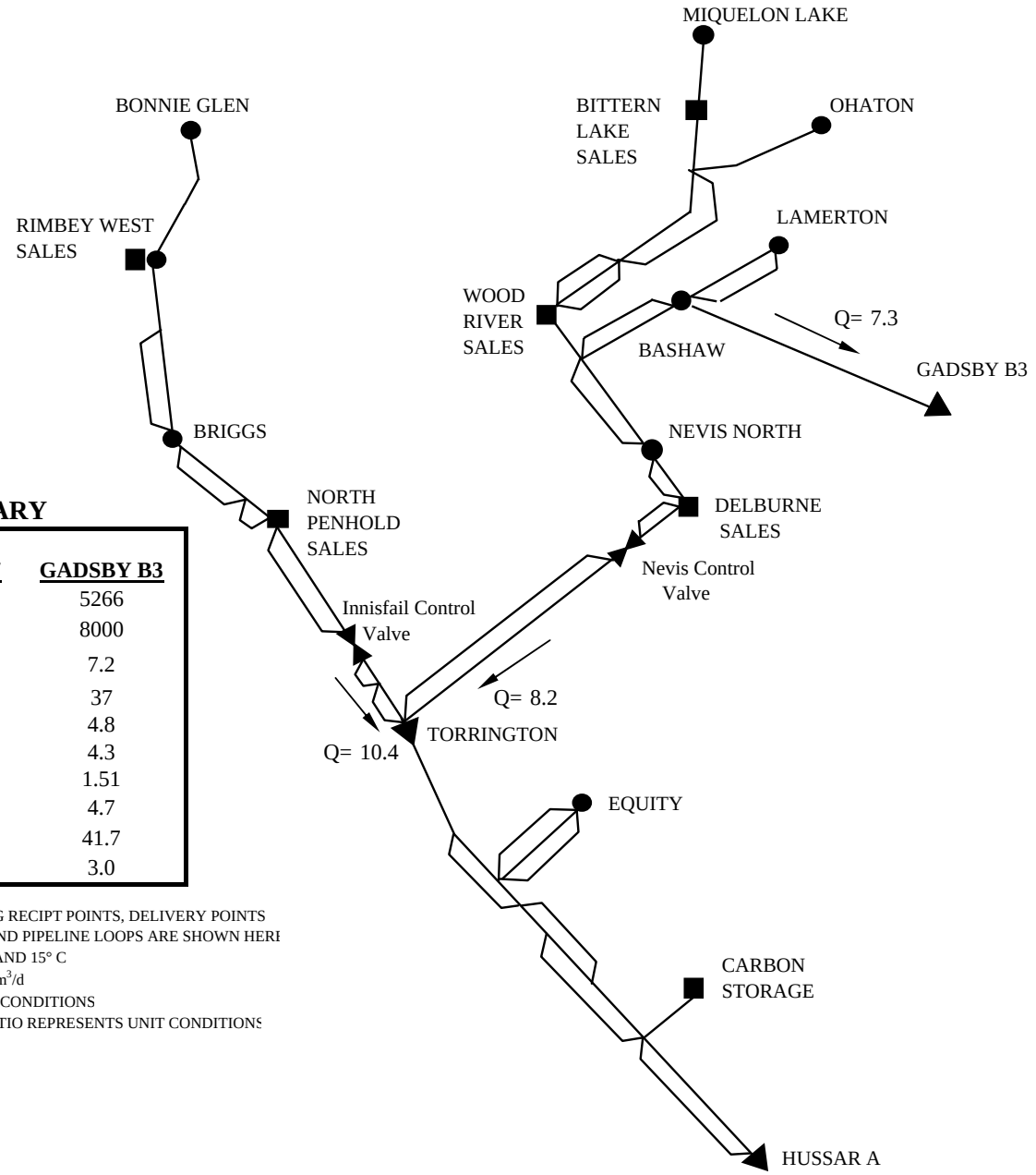
2008/09 GAS YEAR
RIMBEY - NEVIS DESIGN AREA
WINTER DESIGN



COMPRESSOR STATION SUMMARY

	TORRINGTON	HUSSAR A6,7	GADSBY B3
P_{sct}(kPa$_g$)	5153	4887	5266
P_{dis}(kPa$_g$)	5915	5915	8000
Flow ($10^6 m^3$/d @ STP)	18.6	32.6	7.2
Fuel ($10^3 m^3$/d @ STP)	32	65	37
Power Avail (MW)	7.4	27.1	4.8
Power Required (MW)	3.7	8.8	4.3
Compression Ratio	1.15	1.21	1.51
T_{sct} (˚C)	4.5	4.3	4.7
T_{dis} (˚C)	16.4	20.6	41.7
T_{amb} (˚C)	4.0	5.0	3.0

LEGEND
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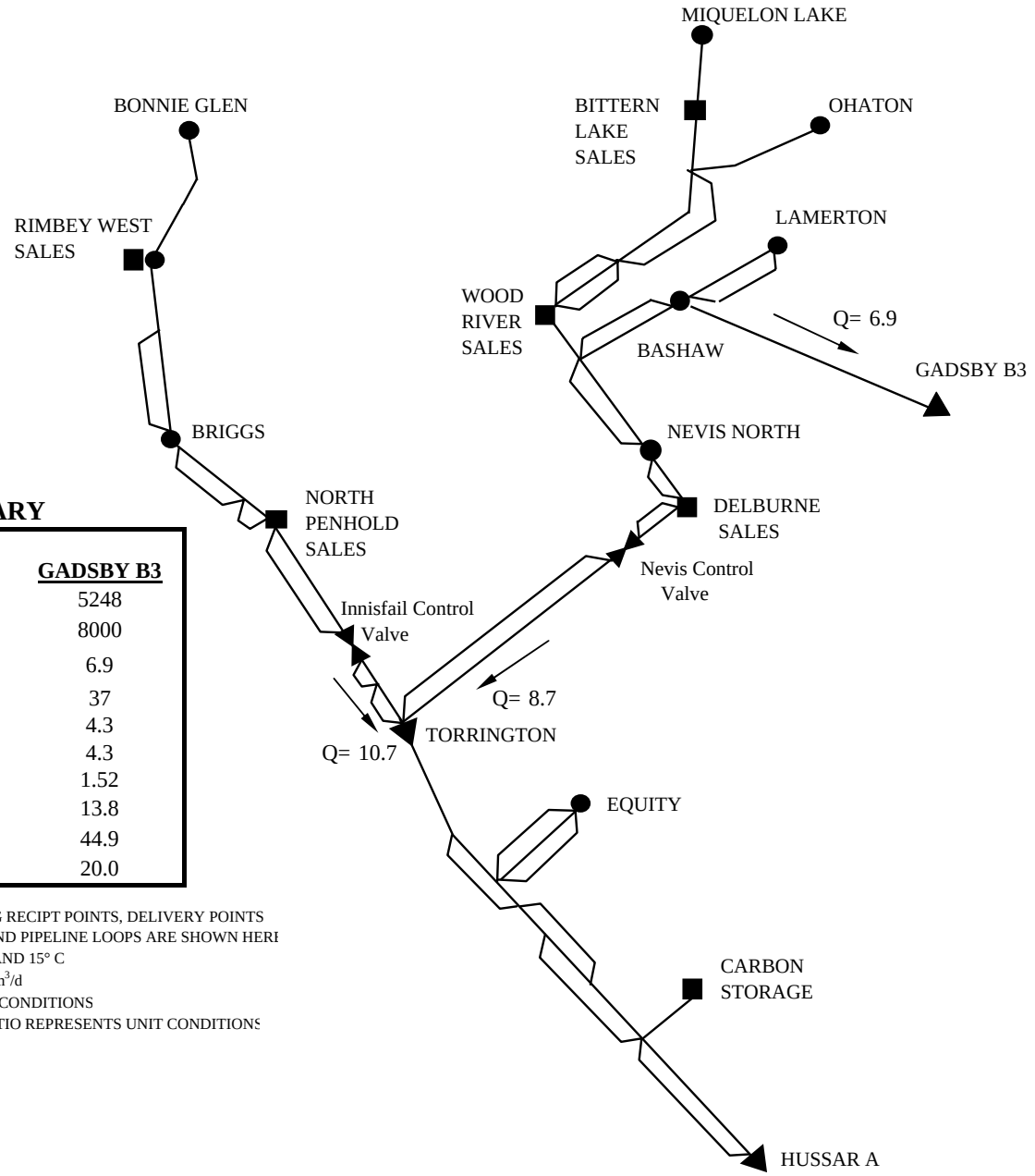
2008/09 GAS YEAR
RIMBEY - NEVIS DESIGN AREA
SUMMER DESIGN



COMPRESSOR STATION SUMMARY

	TORRINGTON	HUSSAR A6,7	GADSBY B3
P_{sct}(kPa$_g$)	4963	4717	5248
P_{dis}(kPa$_g$)	5915	5915	8000
Flow ($10^6 m^3$/d @ STP)	19.4	33.5	6.9
Fuel ($10^3 m^3$/d @ STP)	40	76	37
Power Avail (MW)	6.6	23.8	4.3
Power Required (MW)	5.1	11.2	4.3
Compression Ratio	1.19	1.25	1.52
T_{sct} (˚C)	13.1	13.3	13.8
T_{dis} (˚C)	28.6	33.1	44.9
T_{amb} (˚C)	19.0	21.0	20.0

LEGEND
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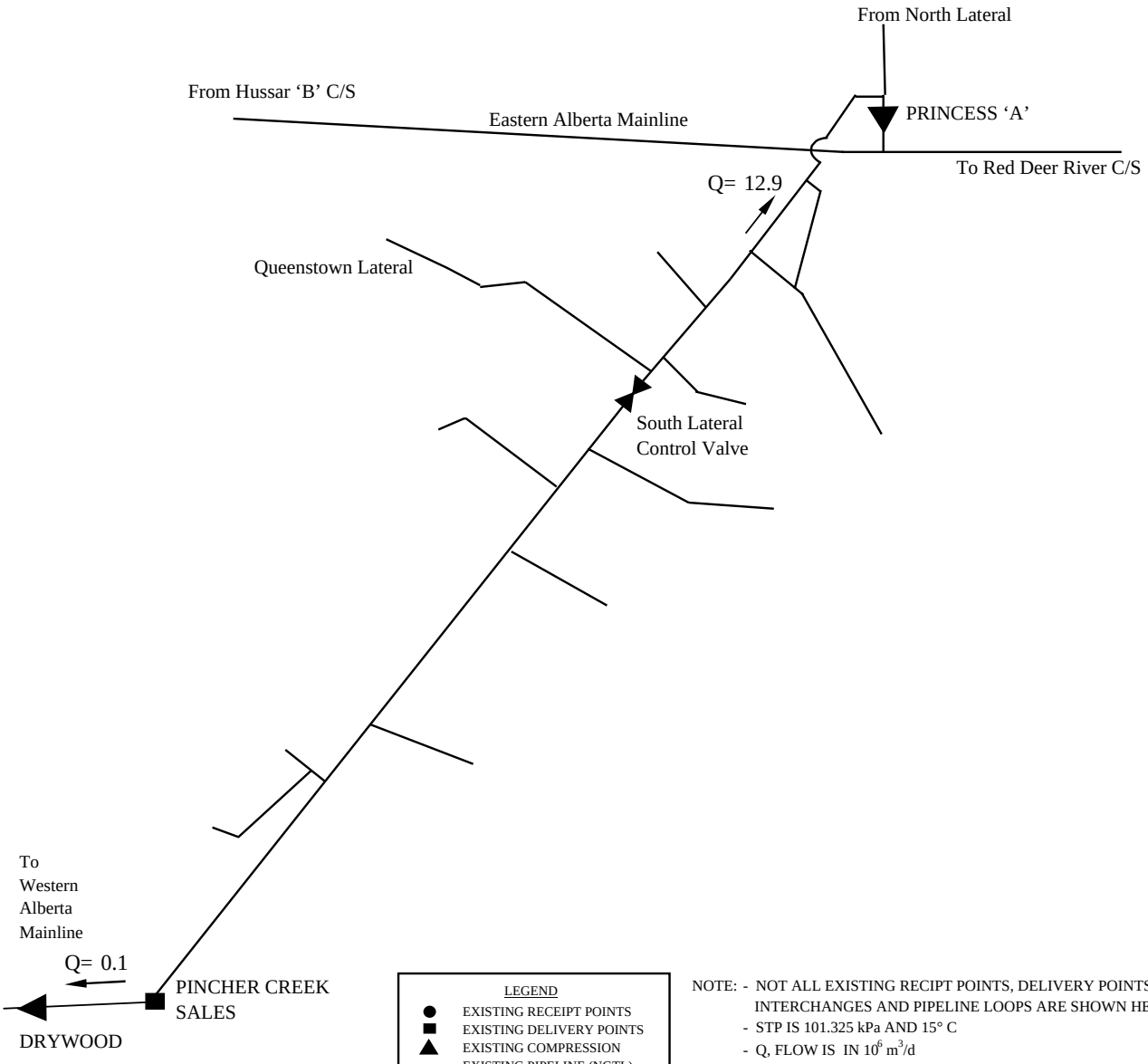
2008/09 GAS YEAR
SOUTH AND ALDERSON DESIGN AREA
WINTER DESIGN



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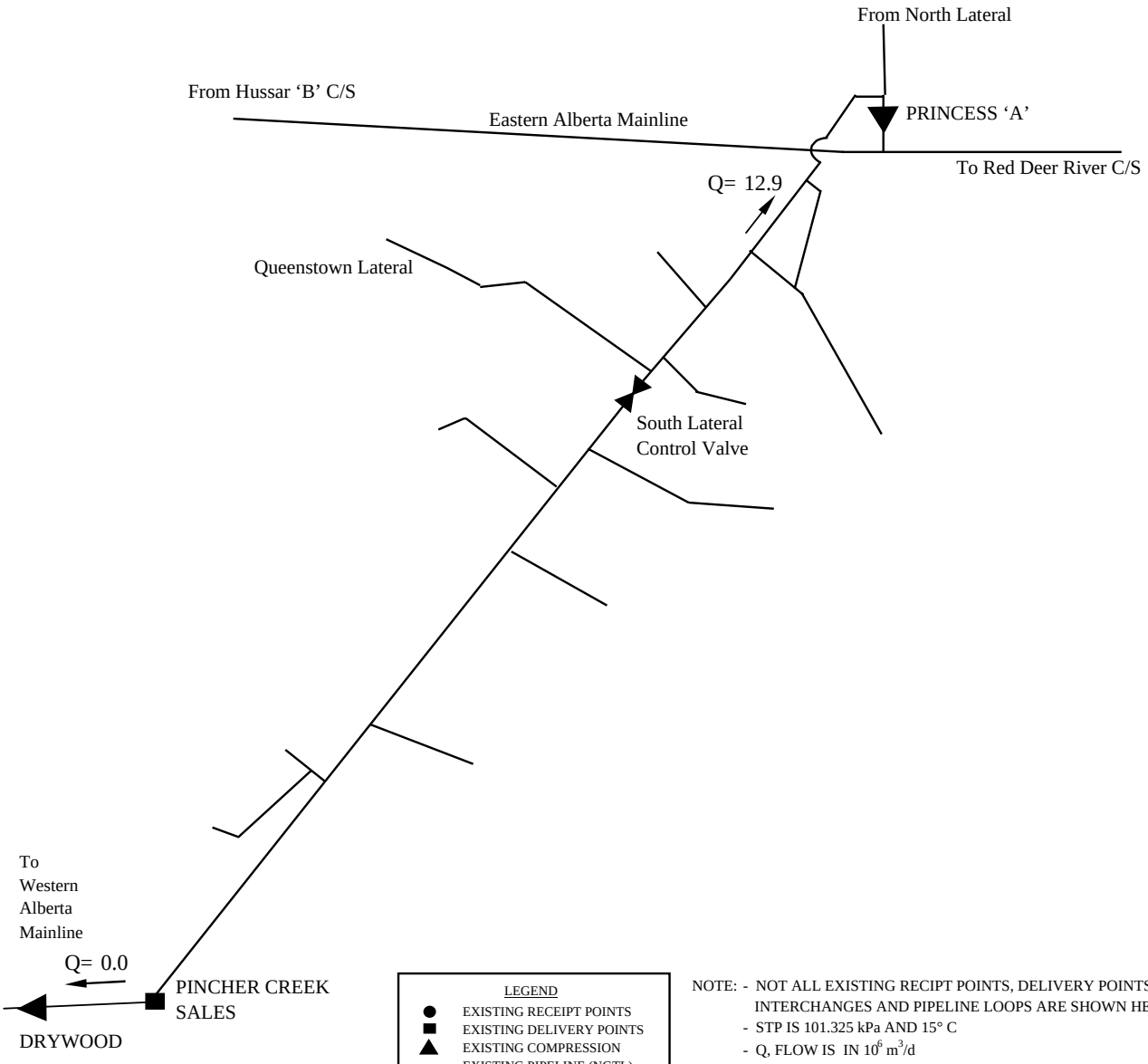
- FOR DRYWOOD COMPRESSOR STATION CONDITIONS SEE WESTERN ALBERTA MAINLINE DESIGN SUB AREA.

2008/09 GAS YEAR
SOUTH AND ALDERSON DESIGN AREA
SUMMER DESIGN



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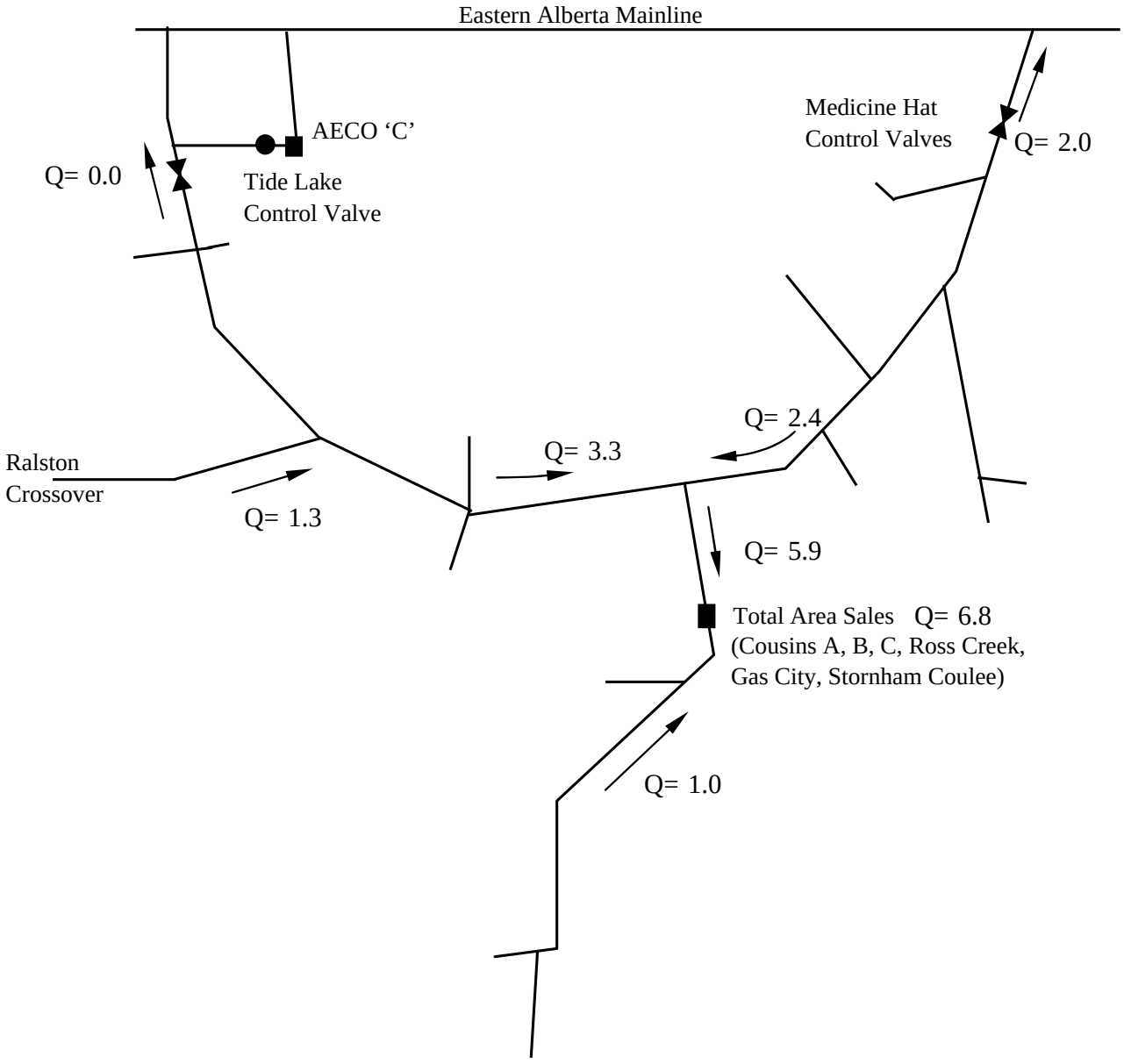
2008/09 GAS YEAR
MEDICINE HAT DESIGN AREA
WINTER DESIGN



LEGEND

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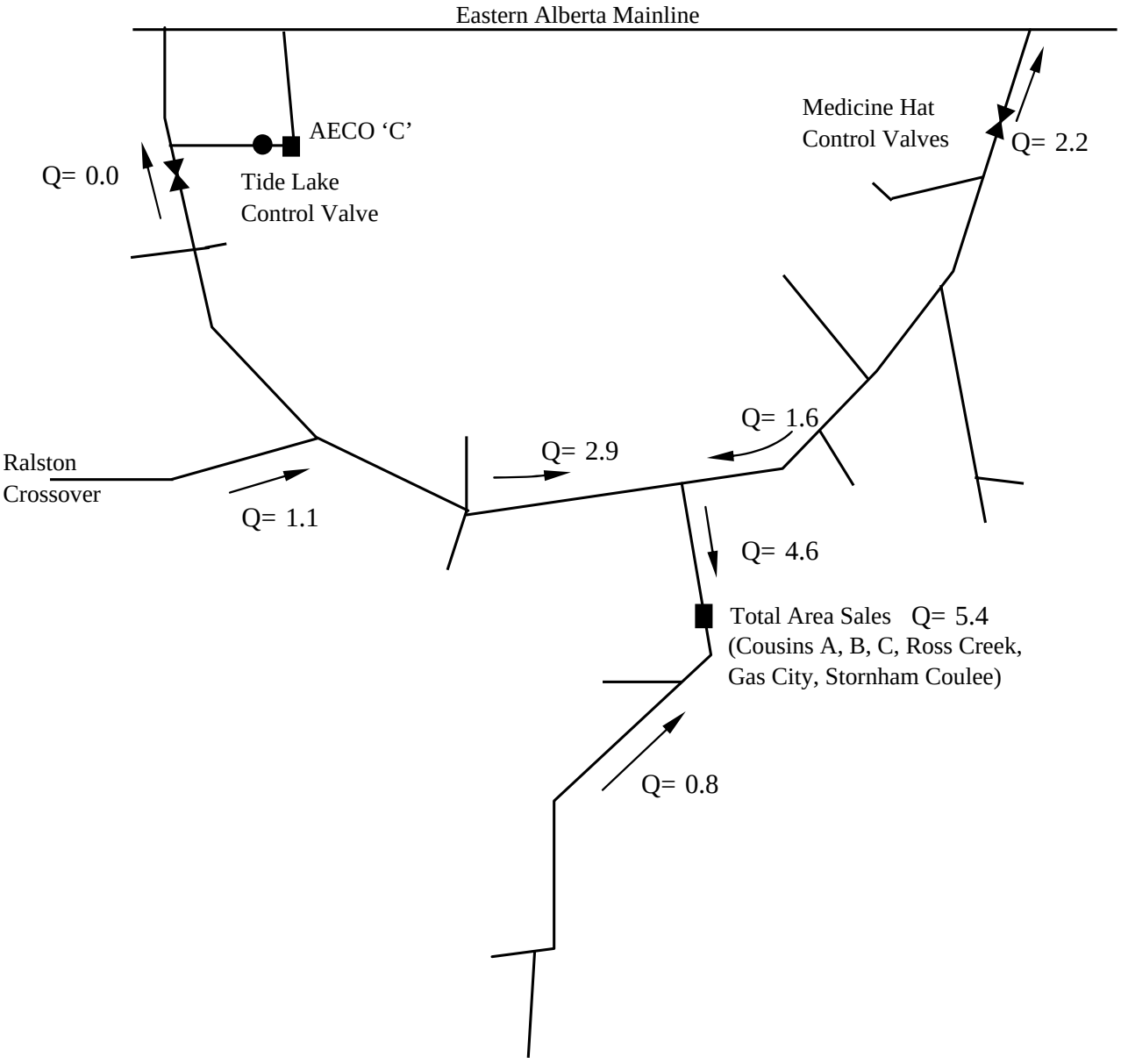
2008/09 GAS YEAR
MEDICINE HAT DESIGN AREA
SUMMER DESIGN



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