

GAS OPERATIONS INFORMATION BULLETIN
September 2000
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PLEASE ENSURE YOUR PRODUCTION ACCOUNTANTS RECEIVE A COPY OF THIS DOCUMENT.

Internet Address: www.energy.gov.ab.ca

NOTE: Questions pertaining to the information contained in this bulletin should be directed to the Gas Operations, Help Desk at (780) 427-2962 unless otherwise stated.

A. PRICING RATES AND TRANSPORTATION INFORMATION

For Pricing, Royalty Rates and Transportation Information for July 2000, refer to Attachments [1](#), [2](#), [2A](#), and [3](#).

B. COMMUNICATION UPDATE

July 2000 Royalty Due Date

- **Royalty clients are to remit the total amount payable shown on the October 2000 Statement of Account by October 31, 2000.** If the amount payable includes accrued current period interest, the interest has only been accrued to the statement issue date. Clients must also include the additional interest that has accrued from the statement issue date to the date of payment, using the per diem amount provided.
- **The October 2000 Statement of Account shows your amount payable as of the Statement issue date. It includes any outstanding balances from your previous statement, your July 2000 Invoice amount and any applicable current period interest charges. It also identifies refunds resulting from overpayments.**
- Current period interest will not be charged on current invoice charges for the production month of July 2000 if it is paid in full by October 31, 2000.
- Current period interest will accrue on any overdue charges commencing the first day after the due-date until it is paid in full.

Note: If the due date falls on a non-business day, payments will be accepted on the next business day.

August 2000 OAS and VA4 Due Dates

The OAS and VA4 documents for the production month of August 2000 are due in the Department offices by October 15, 2000.

NOTE:

- If the due date (15th) falls on a non-business day, the next business day will apply as the due date for OAS and VA4 documents.
- The OAS due date specified by the Department is the date by which the required OAS data must be received in the Department.
- Keying services require sufficient time to process and transmit the data by the Department's due date. Contact your keying agent for their respective cut-off dates.
- For EDI clients, the receipt date is when Value-Added Network (i.e. GE) receives the transmission.
- The importance of timely receipt of OAS data by your service provider and the Department is critical to ensure accurate royalty calculation and prevention of provisional assessment.

Interest Rate

The Department of Resource Development's interest rate for September 2000 is 8.50%.

C. NOTICES

Allowable Costs Facility Cost Centre Setup/Change (AC1) Operator Change Notice

Commencing September 2000, the Department will issue a Facility Cost Centre Operator Change Notice when an AC1 is submitted to register a Facility Cost Centre (FCC) operator change. The notice will be issued to the new and previous operator advising of the following:

- The date the operator change was processed,
- The FCC operator(s) effective date range, and
- The penalty implications on late or missing AC2 and/or AC4 annual cost forms.

Note: For retroactive operator changes, all affected Facility Cost Centre Operators will be notified. The Department is issuing the AC1 Operator Change Notice for your information and review. If clarification is required, please contact the Gas Operations Client Services Help Desk at (780) 427-2962.

Reminder - Gas Royalty Reports - Internet

Gas royalty clients and their service providers can now access the Department's Internet site to retrieve gas royalty reports. Reports such as the Invoice, Statement of Account, Discrepancy Notices, and Turnaround Reports, which are produced by the Mineral Revenues Information System (MRIS), are available in the following formats:

- PDF for viewing and printing in *Adobe Acrobat Reader*.
- Text for viewing and printing in software of your choice.
- UDF and DDF for clients who have elected to receive their reports in UDF/DDF formats.

The Internet site for retrieval of gas royalty reports is accessible via:

- www.energy.gov.ab.ca - links directly to the Electronic Transfer System (ETS) page, which offers the following links:
 - the ETS site, which is available to authorized clients only;
 - the *User Guide* handbook containing detailed instructions for using ETS to retrieve gas royalty reports;
 - the ETS Account Set Up/Change form, which must be submitted to apply for an account authorizing access to ETS.
- www.energy.gov.ab.ca - links to the Department's Home Page. On the Home Page, select the *Electronic Transfer System* to access the ETS page described above.

Getting Started:

If you are interested in this new option, you must apply to Client Registry for an ETS Account that is set up to receive gas royalty reports. Service providers also require an ETS Account to retrieve reports on behalf of their clients. The ETS Account is issued by the Department to authorize access to ETS.

To apply for an ETS Account, use the ETS Account Set Up/Change form, available on the Department's Internet site at www.energy.gov.ab.ca. Complete and return the form according to the instructions provided on the Internet. Please allow 15 working days for processing the form. When your account is authorized, you will be contacted by telephone with the details.

After your account is set up, if you are the original report recipient, you must access ETS to designate your report and delivery preferences before the reports can be retrieved via ETS. The original recipient is the royalty client that is indicated on the gas royalty report.

How ETS Works:

Authorized clients can choose to retrieve all available gas royalty reports or specific reports from ETS. The *Electronic Gas Royalty Reports Preference* window is used to specify report choices and the report recipient. The Preference window displays an alphabetical list of available gas royalty reports. Clients indicate their report choice and specify the ETS Account that is to receive the report. If a client is electing a service provider to receive the report, the service provider's ETS Account must be entered as the ETS report recipient. For detailed instructions on the Preference window, refer to the *Electronic Gas Royalty Report Retrieval User Guide* available on the Internet.

The Preference window is also used to indicate if the ETS report delivery is no longer desired. The delivery method then reverts to the method prior to ETS election, i.e., mail or diskette, depending on the selection prior to ETS election.

Preferences can be changed at any time by the client and are updated nightly prior to the processing of all reports. The delivery option for a report is based on the preferences specified at the time the report is processed.

If the ETS preferences are not specified for a report, the delivery option for that report is either mail or diskette, depending on the original delivery set-up. The delivery option for a report defaults to mail unless the client makes special arrangements for diskette delivery. Note: There can be only one delivery option at a given time for each report.

When the reports are produced, they are delivered according to the preferences that have been entered. If a client elects electronic report retrieval, they are notified by email when the reports are available on the ETS site. The client then accesses ETS to retrieve the reports, as instructed in the *User Guide*.

Technical Requirements:

- Access to an Internet web browser, such as Internet Explorer 5.0 or Netscape Communicator 4.7, is required to retrieve the output files from ETS.
- Acrobat Reader can be downloaded from ETS to read gas royalty reports that are in PDF format.
- Files that are 300 KB and larger are compressed. To uncompress the files, you require software that can handle .ZIP files, e.g., WINZIP.
- Both PDF and text files are automatically decrypted when the file is opened through the ETS browser.

Contacts:

If you have any questions or comments about retrieving gas royalty reports electronically, please contact one of the following:

<i>For Queries or Comments about ...</i>	<i>Department Contact</i>	<i>Phone Number</i>	<i>Fax Number</i>	<i>Address</i>
Electronic Gas Royalty Report Retrieval - Business Rules	Gas Operations Help Desk	(780) 427-2962	(780) 422-8732	8 th Floor, North Petroleum Plaza 9945 - 108 Street Edmonton, Alberta T5K 2G6
Electronic Gas Royalty Report Retrieval - Application Process	Client Registry	(780) 422-1395	(780) 422-9522	3 rd Floor, North Petroleum Plaza 9945 - 108 Street Edmonton, Alberta T5K 2G6
Electronic Gas Royalty Report Retrieval - Technical Support	Production Operations Support	(780) 415-2057	(780) 427-5696	10 th Floor, 108 St Building 9942 - 108 Street Edmonton, Alberta T5K 2J5

Reminder - Inactive Status

Royalty clients who have sold all their oil and gas assets, should submit a letter to the Department requesting their client status be changed to ‘inactive’ effective the production period in which all oil and gas business ceased. The inactive status will prevent acceptance of all future royalty reporting for the client, such as OAS, RMF2, and AC2 documents etc.

Prior to requesting an inactive status, clients are encouraged to review their Gas Royalty Invoices and Statement of Account and finalize outstanding business. The client must notify the Facility Operator or other interested royalty client(s) if a property is sold to ensure that incorrect allocations do not occur.

Each inactive status request will be reviewed for approval by Department staff to ensure there is no outstanding client activity. Examples of activity that would prevent an inactive status change include:

- The client is a lease participant subsequent to the inactive date.
- The client is a Facility Operator subsequent to the inactive date.
- The client is a Facility Cost Centre Operator subsequent to the inactive date.
- The client is a supra client in an amalgamation where active companies exist within the amalgamation.
- Review of the Gas Royalty Statement of Account balance.

Once the request has been approved the inactive status will be applied and a letter confirming the status will be issued to the client. Facility Operators who allocate to inactive clients will receive rejection reports indicating the client is inactive. Clients are responsible for any charges that may appear on future invoices that pertain to production periods prior to the inactive status date. Production periods prior to the inactive date may be subject to audit. If the inactive status is not approved the client will also be notified in writing.

Note: If an inactive status is applied to any date other than January 1, Annual Royalty Reports are still required to be submitted for the portion of the year that the client was active.

For additional information please contact:

Agnes Kilmarnock at (780) 422-1378 or Brenda Quaife at (780) 422-1734
or fax: (780) 422-9522. Written requests may be submitted to:

Alberta Resource Development
Client Registry Services
3rd Floor North Petroleum Plaza
9945-108 Street
Edmonton, Alberta
T5K 2G6

Reminder - Auto Debit Remittance Form –Electronic Submission

The Auto Debit Remittance form for payments to the Crown is available for electronic submission through the Department of Resource Development web site. In order to submit Auto Debit Remittance forms electronically through the Department's web site, you must have signed a contract with the Department. Please contact Yasmin Suleman at (780) 422-5860 for a copy of the contract agreement. You will receive an ETS Account ID and password from our Department upon receipt and processing of the contract. This will enable you to complete your submissions through the Internet.

To access the Department web site, you must have Internet access and a web browser that supports SSL 3.0 (i.e. Netscape 4.7 or Internet Explorer 5.0). You will receive an Account ID and password to access the Department's Electronic Transfer System (ETS) from a department contact.

To access ETS and complete the submission form, please note the process below:

- Access the Resource Development's web site at <http://www.resdev.gov.ab.ca>
- From the menu, select the Information Room
- From the menu, select Electronic Data
- From the menu, select Electronic Transfer System (ETS)
- Sign on with the ETS Account ID and password, assigned by Resource Development
- Select "Input Forms" from the menu on the left
- Select "Debit Remittance" from the menu
- Complete the form with the appropriate details.
- Submit the form to complete your request.

- You will receive a request number with your submission.
- On the evening of each work night, all requests will be processed. The following day, under the “Request Status”, your request confirmation will be available for viewing.

A handbook for ETS is available on the web site at the following address:

www.energy.gov.ab.ca

This handbook also provides details of other products available within ETS, how to set preferences, and how to change passwords.

Contacts:

Questions and inquires regarding the Auto Debit Remittance process can be forwarded to Yasmin Suleman at (780) 422-5860.

Questions or concerns regarding access to the web site and ETS can be forwarded to DRD

Production Operations:

John Faustino at (780) 415-2057

James Findlay at (780) 415-2066

Gail Goncalves at (780) 415-2065

Reminder - Deep Gas Royalty Holiday Program (DGRHP)

In order to assess wells for eligibility under the Deep Gas Royalty Holiday Program the Energy and Utilities Board (EUB) must receive the following well information:

- WR Forms indicating a finished drilling status
- S4 form indicating perforated interval and on-production status
- Well Logs
- Directional Survey

If any of the above information is incomplete, delays will result in the review for eligibility of Royalty Exemption. For additional information, contact Kerry Johnson of the EUB at (403) 297-6973.

Once approved the applicable volumes must be reported on OAS documents at the single well level. If a well is tied to a project, unit or well group, the exemption volumes must be reported at the unique well identifier level. Reporting at the higher level (unit, well group, etc) will result in a Crown Royalty Charge excluding the Royalty Holiday benefits.

Reminder - Gas Royalty Forms

Clients are reminded that all forms will be keyed as submitted. The Department or keying agent will not alter or adjust forms to prevent rejection of documents. In the Alberta Natural Gas Royalty Principles and Procedures, instructions on completion of all required documents

are described. The Department has also published Form Validation Edits for AC2, AC3 and AC5 documents in the April 2000 Information Bulletin. Requests for penalty reversals due to form rejections, as a result of incomplete or incorrect information, will not be approved. Please note: Client IDs are either four or seven characters. Gas Plant, Gathering System, and Injection Facility IDs are four digit codes and Battery IDs are seven digit codes.

Reminder - RMF2 Reassignment of Volumes from Owner Activity Statements

A system enhancement was implemented effective in the June 2000 billing period invoice. The enhancement recognizes a reassignment of royalty responsibility at a specific stream level as reported on the OAS, including at an injection scheme. This means, the Mineral Revenues Information System (MRIS) will recognise RMF2 documents at an injection scheme level (for injection credits) and at the associated well group/unit level (for Crown royalty charges).

MRIS did not previously recognise RMF2 documents filed with a stream ID of an “injection scheme”. Although the RMF2 forms for the injection schemes were accepted, these forms did not trigger the reassignment of volumes for the injection schemes. The Department required the RMF2 forms for injection schemes be filed using the associated unit or well group IDs, in order to process the reassignment of volumes. This method did not limit the reassignment of volumes to the injection scheme. Rather, it reassigned both the production volumes (reported for the unit or well group) as well as the injection volumes (reported for the injection schemes).

The system enhancement will require RMF2 forms to be filed to match the stream IDs as reported on the OAS forms. The responsibility for discharging the liability for Crown royalty is based on the allocation of quantities of gas and gas products to royalty clients at each well group/unit/injection scheme, **as reported on the OAS forms** each production month. The business rules for RMF2 filings are illustrated in Section 4.8 of the Gas Royalty Principles & Procedures.

Example: Injection Scheme IS 90000 is associated with Unit UN 12345.

OAS reports the injection volume at stream ID IS 90000, and production volumes at UN 12345 (likely by different operators – one reporting for production volumes, the other for injection credit volumes).

With the system enhancement: If an RMF2 is filed for IS 90000, only the OAS injection volumes for IS 90000 will be reassigned. **Production volumes for UN 12345 will not be reassigned. If the royalty reassignment is intended for both the injection and production volumes, then RMF2 forms for both the stream IDs must be filed.**

July Provisional Assessment Charge

The net Provisional Assessment Charge for the July 2000 billing period was \$29,109,829.57. This includes \$78,089,340.07 in first time provisional assessments and (\$48,979,510.50) in reversals of provisional assessments for all production periods.

July Penalty Charges

The following are the Penalty Charges by form type for the July 2000 billing period:

FORM	Penalties Charged
AC2	\$52,500
AC4	\$5,000
AC5	\$76,500
GR2	\$0
NGL1	\$1,000
VA2	\$0
VA3	\$0
VA4	\$100
Total Charged	\$135,100
Total Reversed	(\$53,800)
Net Penalties Charged for 2000/07	\$81,300

Complete Client ID Listing

The Complete Client ID listing can be found on the Internet at the following address:

www.energy.gov.ab.ca

The listing, which is updated monthly includes termination and effective dates as well as the status of all Client IDs. The Department would like to remind those browsing the site to note the effective and termination dates of the Client IDs.

Projects/Blocks

The following projects/blocks have been set up or terminated since September 2000. If further information is required on these or any other projects, please contact Marlene Williams at (780) 422-9151.

PROJECT/BLOCK NAME	EFFECTIVE DATE	TERMINATION DATE	OPERATOR	STREAM ID
Lathom Upper Mannville C Project No. 6 Previously named: Lathom Upper Mannville N Project No. 1	August 1, 2000 NAME CHANGE ONLY		0026	A02183
Willesden Green Belly River GGG Block No. 1		July 31, 2000	0RW6	A02342
Kelsey Lower Mannville B Project No. 1	August 1, 2000		0E34	A02690
Pembina Nisku Z Project No. 1	August 1, 2000		0K29	A02692

Struck Clients

Clients must ensure that the OAS and all other royalty documents are completed using only valid client names and IDs. It is critical that royalty clients use current legal client names and their appropriate IDs on all documents to ensure accurate royalty calculation and to prevent provisional assessment and penalties. Rejects will occur when invalid IDs are used.

If you require information regarding client names or IDs, please contact Client Registry at (780) 422-1395.

The following is a list of struck clients:

Company Name	Client ID	Struck Date
Enercana Capital Limited	0102872	August 1, 2000
Kinetic Resources (LPG) Ltd.	OTR2	August 1, 2000

Operator Changes

EUB Facility Operator changes are listed in [Attachment 4](#).

New EUB Plants

New EUB plants and corresponding plant types and transportation regions are listed in [Attachment 5](#).

D. POINTS OF CONTACT

Department of Resource Development Hotline & Internet

Prices, Royalty Rates, and Transportation Information are available on the Department of Resource Development Internet address or hotline: (403) 297-5430. In addition, both the Gas Operations Information Bulletin and Information Letter are also available on the Internet address:

www.energy.gov.ab.ca

Note: The sulphur price can be accessed by calling the Department of Resource Development hotline at (403) 297-5430. Wait to hear the recorded list of options, then press #1 on your touch-tone phone for Natural Gas Information. Again, wait for the recorded list of options, then press #3 for Gas Royalty Rates.

Gas Operations Client Services Help Desk

Client Services Help Desk can be reached at:

Telephone: (780) 427-2962
Fax: (780) 427-3334 or (780) 422-8732
Alberta Toll Free: 310-0000 (Please do not dial “1” or “780”.)

Hours of operation are 8:15 a.m. to 4:30 p.m.
Voice messages left after 4:30 p.m. will be answered the next business day.

Calgary Information Centre

3rd Floor, 801 – 6th Avenue S.W.
Calgary, Alberta T2P 3W2
Telephone (403) 297-6324
Fax (403) 297-8954

Alberta Royalty Tax Credit Information

Alberta Tax and Revenue Administration
Tax Services
Telephone: (780) 427-3044
Alberta Toll Free: 310-0000
Fax: (780) 427-5074
For further information, please contact Angelina Leung at (780) 427-9425 ext 251.

Carlene Edden
Director, Gas Operations
Gas & Markets Development

Attachments

2000 PRICES

MONTH	GAS REF PRICE (\$ per GJ)	GAS PAR PRICE (\$ per GJ)	ETHANE REFERENCE PRICE (\$ per GJ)	ETHANE PAR PRICE (\$ per GJ)	PENTANES REF PRICE (\$ per m ³)	PENTANES PAR PRICE (\$ per m ³)	PROPANE REF PRICE (\$ per m ³)	PROPANE FLOOR PRICE (\$ per m ³)	BUTANE REF PRICE (\$ per m ³)	BUTANE FLOOR PRICE (\$ per m ³)	SULPHUR DEFAULT PRICE (\$ PER TONNE)
JAN	2.50	2.54	N/A	N/A	257.37	240.40	130.98	100.35	181.14	137.24	14.45
FEB	2.62	2.50	2.62	2.50	274.52	247.38	168.11	143.58	215.63	172.85	15.89
MAR	2.72	2.62	2.72	2.62	282.23	270.02	177.28	129.49	219.74	150.63	14.56
APR	3.10	2.72	3.10	2.72	240.89	272.53	146.77	122.29	174.37	128.41	14.98
MAY	3.35	3.10	3.35	3.10	277.12	234.80	173.77	146.44	203.18	160.18	10.84
JUN	4.33	3.35	4.33	3.35	299.12	269.22	197.27	163.62	225.96	192.83	14.49
JUL	4.42	4.33	4.42	4.33	280.24	289.67	196.41	165.43	221.32	171.40	10.84
AUG											
SEPT											
OCT											
NOV											
DEC											

DETAIL OF THE JULY 2000 GAS REFERENCE PRICE		SELECT PRICE 2000				
Weighted Average Price of Alberta	4.767\$/GJ	New Gas (\$ per GJ)	Old Gas (\$ per GJ)	Pentanes (\$ per m ³)		
Deductions: Intra – Alberta Transportation	0.296\$/GJ	1.209	0.359	43.73		
Marketing Allowance	0.015\$/GJ	New Ethane (\$ per GJ)	Old Ethane (\$ per GJ)			
Price Before Pipeline Factor	4.456\$/GJ	1.209	0.359			
Pipeline Fuel/Loss Factor	0.987					
Price before Special Adjustment	4.398\$/GJ					
Special Adjustment	0.000\$/GJ					
Price before 2% amendment limitation or rounding	4.398\$/GJ					
Amendments: Carry forward (from previous RP month)	0.000\$/GJ					
Prior Period Amendment Adjustment (current RP month)	0.025\$/GJ					
Calculated RP after Amendments	4.423\$/GJ					
JULY 2000 Reference Price	4.42\$/GJ	ANNUAL SULPHUR DEFAULT PRICE				
Difference = value carried forward to next RP month	0.003\$/GJ	1995	1996	1997	1998	1999
		\$25.59	\$11.45	\$10.11	\$6.01	\$10.52

2000
TRANSPORTATION ALLOWANCE AND DEDUCTIONS

MONTH	PENTANES PLUS (a)				PROPANE AND BUTANE (b)				PENTANES PLUS, PROPANE & BUTANE (c)				FRAC. ALLOW. (per m3)
	REGION				REGION				REGION				
	1	2	3	4	1	2	3	4	1	2	3	4	
JAN	6.29	10.40	14.70	12.36	-0.29	-7.17	-2.82*	-4.29	-6.35	2.53	14.85	-7.74	7.00
FEB	-0.64	6.83	7.78	6.24	5.53	-2.02	3.00*	3.07	0.51	9.93	30.91	-0.34	7.00
MAR	5.05	10.94	10.09	12.06	14.77	11.81	13.60*	12.45	12.14	16.85	21.65	12.40	7.00
APR	2.79	7.43	8.25	7.24	4.65	-1.43	2.05*	-1.83	5.52	11.38	13.76	4.99	7.00
MAY	3.16	9.84	8.76	10.33	5.05	0.58	3.52*	3.36	5.83	10.68	15.33	7.13	7.00
JUN	1.59	12.78	8.42	12.79	3.30	2.01	2.30*	-1.69	6.69	11.12	18.28	7.75	7.00
JUL	7.58	13.55	8.83	9.78	5.78	9.48	5.77*	-3.04	7.02	12.00	18.69	8.57	7.00
AUG													
SEPT													
OCT													
NOV													
DEC													

- (a) Pentanes Plus obtained as a specification gas product,
- (b) Propane and Butane obtained as specification products, and
- (c) Pentanes Plus, Propane and Butane contained in a natural gas liquids mix.

* Current month calculated allowance is based on an estimate.

Note: For details on “Prior Period Amendment Effects”, see Attachment 2A.

PRIOR PERIOD AMENDMENT EFFECTS												
NGL REFERENCE PRICES		JULY 2000										
	<i>Propane</i>	<i>Butane</i>	<i>Pentanes</i>									
Price before amendments	196.405777	221.324173	280.245517									
Opening Rollover (from prior business month)	0.003622	-0.003639	-0.004893									
Prior Period Amendment Adj. (NGL-1)	0.000000	0.000000	0.000000									
Prior Period Amendment Adj. (NGL-100)	0.000000	0.000000	0.000000									
Published Reference Price	196.41	221.32	280.24									
TRANSPORTATION ALLOWANCES		JULY 2000										
	Pentanes Plus				Propane and Butane				Pentanes Plus, Propane & Butane			
AMENDMENTS	Region 1	Region 2	Region 3	Region 4	Region 1	Region 2	Region 3	Region 4	Region 1	Region 2	Region 3	Region 4
Opening Rollover (from prior business mth)	0.000672	0.000972	-0.000742	-0.003889	-0.001420	-0.002236	-0.002170	-0.004594	-0.002460	0.002792	-0.001326	0.004314
Prior Period Amendment Adj. (NGL1)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Prior Period Amendment Adj. (NGL-100)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Total Amendment Effect	0.000672	0.000972	-0.000742	-0.003889	-0.001420	-0.002236	-0.002170	-0.004594	-0.002460	0.002792	-0.001326	0.004314
Calculated Transp. Differential	7.582870	13.550845	8.833604	9.785512	5.779465	9.484635	5.776518*	-3.038768	7.019233	11.993165	18.690752	8.560930
Calculated Transp. Differential after Total Amendments	7.583542	13.551817	8.832862	9.781623	5.778045	9.482399	5.774348	-3.043362	7.016773	11.995957	18.689426	8.565244
Published Transportation Allowance	7.58	13.55	8.83	9.78	5.78	9.48	5.77*	-3.04	7.02	12.00	18.69	8.57

* Any estimates represented by (*) are calculated as the weighted average of the other regions for the same spec product transportation allowance, since the region is zero. The weightings are based on the previous year's production.

**2000
ROYALTY RATES**

MONTH	GAS - OLD (GOL) (per GJ)	GAS – NEW (GNE) (per GJ)	ETHANE – OLD (per GJ)	ETHANE – NEW (per GJ)	PENTANES - OLD (POL) (per m ³)	PENTANES - NEW (PNE) (per m ³)
JAN	35.00000	28.10039	N/A	N/A	44.90666	32.63523
FEB	35.00000	27.91000	35.00000	27.91000	45.05037	32.70196
MAR	35.00000	28.46374	35.00000	28.46374	45.46537	32.89464
APR	35.00000	28.88787	35.00000	28.88787	45.50714	32.91403
MAY	35.00000	30.00000	35.00000	30.00000	44.78518	32.57883
JUN	35.00000	30.00000	35.00000	30.00000	45.45190	32.88838
JUL	35.00000	30.00000	35.00000	30.00000	45.77298	33.03746
AUG						
SEPT						
OCT						
NOV						
DEC						

EUB FACILITY	FACILITY NAME	PREVIOUS OPERATOR NAME	PREVIOUS CLIENT ID	CURRENT OPERATOR NAME	CURRENT CLIENT ID	EFFECTIVE DATE
AB-GP-1036	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1053	BONAVISTA SIBBALD	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08
AB-GP-1063	FLETCHER CHALLENGE PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1089	GULF MIDSTREAM PADDLE RIVER	CRESTAR ENERGY INC.	0NL2	GULF MIDSTREAM SERVICES LIMITED	0YD9	2000-08
AB-GP-1116	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1136	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1232	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1234	BONAVISTA SEDALIA	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08
AB-GP-1282	FLETCHER RED WILLOW	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1285	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1295	FLETCHER LEAHURST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1298	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1414	ALTAGAS PARKLAND NORTHEAST	NOVAGAS GANADA LTD.	0TA4	ALTAGAS SERVICES INC.	0TF9	2000-08
AB-GP-1444	FLETCHER MONITOR	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1454	FLETCHER ST. ALBERT	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1584	BELAIR PENHOLD	CANADIAN 88 ENERGY CORP	0KT5	BELAIR ENERGY CORPORATION	0WX6	2000-08
AB-GP-1632	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1684	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GP-1879	MARATHON SEAL 7-20 PLANT	NATIONAL FUEL EXPLORATION CORP	0AJ1	MARATHON CANADA LIMITED	0AL2	2000-06
AB-GP-1880	CNRL BOUNDRY LAKE S	ANG GATHERING & PROCESSING LTD.	0A34	CANADIAN NATURAL RESOURCES LIMITED	0HE9	2000-08
AB-GP-1977	ALTAGAS PARKLAND N.E.	NOVAGAS GANADA LTD.	0TA4	ALTAGAS SERVICES INC.	0TF9	2000-08
AB-GS-2246	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2274	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2290	FLETCHER DONALDA	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2344	GULF MIDSTREAM PADDLE RIVER	CRESTAR ENERGY INC.	0NL2	GULF MIDSTREAM SERVICES LIMITED	0YD9	2000-08
AB-GS-2355	PETRO-CANADA WILSON CK	177293 CANADA LTD.	0001	PETRO-CANADA	0246	2000-03
AB-GS-2397	FLETCHER BROWNFIELD	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2446	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2450	FLETCHER PROVOST N	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2483	FLETCHER RED WILLOW	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2507	FLETCHER RED WILLOW	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2550	FLETCHER SULLIVAN LAKE	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2583	BONAVISTA SEDALTA GRP #1	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08
AB-GS-2640	FLETCHER PROVOST # 3	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2655	BONAVISTA OYEN	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08
AB-GS-2679	FLETCHER MONITOR	ALTANA EXPLORATION COMPANY	0315	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2688	FLETCHER HALKIRK	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07

EUB FACILITY	FACILITY NAME	PREVIOUS OPERATOR NAME	PREVIOUS CLIENT ID	CURRENT OPERATOR NAME	CURRENT CLIENT ID	EFFECTIVE DATE
AB-GS-2735	FLETCHER INTICE	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-2783	ARC JENNER ATLEE	MERIT ENERGY LTD.	0TJ8	ARC RESOURCES LTD.	0G30	2000-08
AB-GS-2923	AEC WEST SCANDIA	AEC WEST LTD.	0E21	ALBERTA ENERGY COMPANY LTD.	0R61	2000-01
AB-GS-3065	FLETCHER CASTOR EAST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-3066	FLETCHER CASTOR	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-3220	BONAVISTA SUPERBA	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08
AB-GS-3311	ALTAGAS PARKLAND NORTHEAST	NOVAGAS GANADA LTD.	0TA4	ALTAGAS SERVICES INC.	0TF9	2000-08
AB-GS-3338	COMPTON BIGCRAY	COMPTON ENERGY INC.	0CZ7	COMPTON PETROLEUM CORPORATION	0CW8	2000-01
AB-GS-3452	MARATHON COYOTE	OPINAC EXPLORATION LIMITED	0HC5	MARATHON CANADA LIMITED	0AL2	2000-05
AB-GS-3527	SOUTHWARD KINSELLA	SUNOMA ENERGY CORP.	0G31	SOUTHWARD ENERGY LTD.	0DR2	2000-06
AB-GS-3662	FLETCHER ST. ALBERT	BP CANADA ENERGY COMPANY	0060	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-3806	SOUTHWARD WARWICK	SUNOMA ENERGY CORP.	0G31	SOUTHWARD ENERGY LTD.	0DR2	2000-06
AB-GS-4029	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4049	MEOTA ROBIN	MERIT ENERGY LTD.	0TJ8	MEOTA RESOURCES CORP.	0XJ9	2000-08
AB-GS-4071	GULF MIDSTREAM LEAMAN	BARRINGTON PETROLEUM LTD.	0HM7	GULF MIDSTREAM SERVICES LIMITED	0YD9	2000-08
AB-GS-4072	GULF MIDSTREAM PADDLE RIVER	CRESTAR ENERGY INC.	0NL2	GULF MIDSTREAM SERVICES LIMITED	0YD9	2000-08
AB-GS-4084	NORTHSTAR MOONSHINE	DEVON ENERGY CANADA CORPORATION	0WE1	NORTHSTAR ENERGY CORPORATION	0BK8	2000-06
AB-GS-4106	BONAVISTA OYEN	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08
AB-GS-4123	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4194	CNRL CLEAR HILLS	ANG GATHERING & PROCESSING LTD.	0A34	CANADIAN NATURAL RESOURCES LIMITED	0HE9	2000-08
AB-GS-4223	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4297	SHENANDOAH WAINWRIGHT	PARA-TECH ENERGY SERVICES INC.	0RT6	SHENANDOAH RESOURCES LTD.	0XW3	2000-05
AB-GS-4315	BONAVISTA HEATHDALE	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08
AB-GS-4345	SOLEX ENERGY NIPISI	INTERNATIONAL COLIN ENERGY	0LP5	SOLEX ENERGY PRODUCTION LTD.	0YX8	2000-01
AB-GS-4394	MARATHON SEAL 7-20 GGS	NATIONAL FUEL EXPLORATION CORP	0AJ1	MARATHON CANADA LIMITED	0AL2	2000-06
AB-GS-4411	FLETCHER CHALLENGER WILLESDEN GREEN	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4463	CRESTAR TALBOT LAKE	ANG GATHERING & PROCESSING LTD.	0A34	CRESTAR ENERGY INC.	0NL2	2000-09
AB-GS-4521	FLETCHER CHALLENGE BUCK LAKE	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4531	FLETCHER PROVOST	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4593	ALTAGAS PARKLAND N.E.	NOVAGAS GANADA LTD.	0TA4	ALTAGAS SERVICES INC.	0TF9	2000-08
AB-GS-4617	GULF MIDSTREAM PADDLE RIVER	BARRINGTON PETROLEUM LTD.	0HM7	GULF MIDSTREAM SERVICES LIMITED	0YD9	2000-08
AB-GS-4663	FLETCHER ST. ALBERT	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4669	FLETCHER ST. ALBERT	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4723	FLETCHER BUFFALO LAKE 4-32-41-19W4	FLETCHER CHALLENGE ENERGY CANADA	0MG5	FLETCHER CHALLENGE OIL AND GAS INC.	0ZT8	2000-07
AB-GS-4760	CNRL COMP 1-14-87-13W6	ANG GATHERING & PROCESSING LTD.	0A34	CANADIAN NATURAL RESOURCES LIMITED	0HE9	2000-08
AB-GS-4797	BONAVISTA HEATHDALE 7-14	MERIT ENERGY LTD.	0TJ8	BONAVISTA PETROLEUM LTD.	0MD6	2000-08

NEW GAS PLANTS & GAS GATHERING SYSTEMS				
EUB FACILITY CODE	FACILITY NAME	TRANSPORTATION REGION	PLANT TYPE	PLANT TYPE EFFECTIVE DATE
AB-GP-1770	KIRKPATRICK LAKE GAS PLANT	2	2	2000-06
AB-GS-6128	MOBIL LONE PINE NORTH GGS	2	1	2000-07
AB-GS-6129	PPC FERRIER 16-3 COMPRESSOR	1	1	2000-07
AB-GS-6130	RENAISSANCE LA COREY 2-18 GGS	1	1	2000-07
AB-GS-6131	NORTHROCK MARATHON 7-7 GGS	1	1	2000-07
AB-GS-6133	ENCAL INNISFAIL 5-21 SPLITTER	1	1	2000-09
AB-GS-6134	PCR PROVOST 1A-16	1	1	2000-08
AB-GS-6135	MEOTA SWIMMING GGS	1	1	2000-08
AB-GS-6136	FCOG KNELLER GAS GATHERING SYSTEM	1	1	2000-08
AB-GS-6137	NORTHROCK DEANNE 16-4 GGS	1	1	2000-09
AB-GS-6138	GAUNTLET TWINING 08-31 GGS	2	1	2000-08
AB-GS-6139	AEC LAGLACE 6-17 GGS	4	1	2000-08