

Gas Industry Exceeding Fast Growth Reputation

By KEN SMITH
Canada Press Business Editor

Canada's natural gas industry this year is exceeding even its own reputation for fast growth. A summary of half-year operations, released last week by the Canadian Gas Association, shows natural gas sales in Canada rose 36,000,000 cubic feet or 13.5 per cent, to 316,000,000 cubic feet compared with the first six months of 1964.

The six-month total is only 8,000,000 cubic feet below sales in all of 1960.

The association also reported that exports to the United States rose 5,000,000 cubic feet to 203,000,000 cubic feet — close to the maximum allowable under existing export licences.

Sales revenues for the first six months were a record \$214,000,000 — up \$28,000,000 from the comparable 1964 period. The number of customers rose 69,000 to a total of 1,517,000.

The sales gain this year is the sharpest since 1962 when sales rose 29,000,000 cubic feet. The 13.5-per-cent increase over 1964 compares with a 9.1-per-cent rise recorded a year ago.

Canada, especially Saskatchewan and Alberta. The West has accounted for about 65 per cent of the increase, compared with only 40 per cent of the additional sales in the first half of 1964.

Things are booming in the crude oil and liquid gas industries, too.

The magazine Oilweek, in a third-quarter review and forecast, says oil and liquid gas production this year should total about 590,100 barrels daily, an increase of more than nine per cent compared with 1964.

Revenues will climb to \$922,000,000 compared with \$828,282,000, the magazine predicts, and expenditures to \$915,000,000 compared with \$865,000,000.

Petroleum consumption was 1,655,000 barrels daily in the first half of this year compared with 982,000 barrels in the similar 1964 period and requirements will likely rise another 50,000 barrels by the end of the year, Oilweek says.

Elsewhere on the business scene, Canada: An Appraisal of its Needs and Resources, a new book on Canada's economic potential, was published by the University of Toronto Press. Prepared by three economists — George W. Wilson, Scott Gordon and Stanislaw Judek — it predicts that Canada's population will grow to 25,000,000 in 10 years; and the gross national product to \$76,000,000,000 in terms of 1962 dollars.

any non-war period, or perhaps even higher."

Stock markets were in the news Montreal's exchange officially opened its new headquarters in the \$47,000,000 Place Victoria skyscraper, while the Toronto exchange continued its crackdown on companies it feels do not meet certain financial requirements.

The TSE suspended nine small mining companies and has said that if the companies do not come up with \$25,000 in liquid assets within a year they will be delisted.

The TSE has been sharply criticized in two government reports for not doing a good enough job of policing itself and companies listed on its boards.

Distillers Corp. - Seagrams Ltd. reached an exclusive plateau, recording sales of \$1,005,000,000 in the fiscal year ended July 31 compared with \$897,000,000 the previous year. Net profit was \$41,000,000 compared with \$37,000,000.

Subordinated noteholders of Atlantic Acceptance Corp. with claims totalling \$29,000,000 against the insolvent finance company, filed a notice of appeal against a court approval given the bid of General Acceptance Corp. to take over part of Atlantic's operations.

The bid had been approved by senior noteholders, with claims of \$106,000,000 against Atlantic. The subordinated noteholders fear there will be no Atlantic assets left to meet their claims after the senior noteholders have been satisfied.

Copper Prices Said Strangling Brazil Industry

LONDON (AP) — A leading Brazilian industrialist has complained that rising world copper prices were strangling Brazil's expanding industry.

The industrialist, Dr. Fernando Lee, president of the Brazilian Copper Association, also said Brazilian industry must get a direct share of the copper producer-consumer contract quota to avoid paying nearly double the price for this commodity on the world's metal exchanges.

Lee, who is leading a four-man copper industry mission from Brazil, has completed a round of talks with British copper products manufacturers and the British Copper Development Association. He had similar talks in Canada and the United States and was to leave Thursday for Brussels for talks with the Union Minière. He said in an interview:

"The recent price increases in Chilean copper are wicked and unjustified. Exorbitant prices are being forced down our throat and this is

strangling the industry of a nation of 80,000,000 people who have done their best to expand industry, fight inflation, stabilize prices and stave off communism."

SEEK NEW MARKETS
Lee said: "Chilean prices are forcing us to look for other markets. That is why we have come to London to see what possibilities are open to us."

"Also we cannot go on paying metal exchange prices — £353 (\$1,650) a ton — which is ruinous. Brazil can no longer be kept out of the direct producer-consumer contracts and we must have a quota there."

"If we cannot find a solution, there is no other way out. We shall have to replace copper with other metals as is already being done in some manufacturing processes."

Chile used its prices by two cents to 26 U.S. cents a pound. The Anglo-American Copper Corporation, biggest Zambia copper producer, was the first to follow suit. Noranda Sales Corporation, Anaconda, Kennecott and International Nickel of Canada did also.

Chilean price increases are a hard blow to Brazil which is not a copper producer, Lee said.



ON THE AIR

- TUESDAY PROGRAMS**
CFXY-TV
- 1:30 p.m.—Musical
 - 2:00 p.m.—Film Festival
 - 2:30 p.m.—Today At Home
 - 3:00 p.m.—To Tell The Truth
 - 3:25 p.m.—Take Thirty
 - 4:00 p.m.—Moment of Truth
 - 4:31 p.m.—Magic Boomerang
 - 5:00 p.m.—Wild Bill Hickok
 - 5:30 p.m.—Music Hop
 - Jeunesse Oblige
 - 6:00 p.m.—39 Half Hours for TV
 - 6:30 p.m.—Political Telecast
 - 6:50 p.m.—Gazette
 - 7:00 p.m.—CFXY TV News
 - 7:15 p.m.—Political Telecast
 - 7:30 p.m.—Gilligan's Island
 - 8:00 p.m.—Big Valley
 - 9:00 p.m.—Red Skelton
 - 10:00 p.m.—The Man and The Issues
 - 10:30 p.m.—Dick Van Dyke
 - 11:01 p.m.—Matters and The Issues
- NPD**
- 11:30 p.m.—The Public Eye
 - 12:00 p.m.—CBC TV News
 - 12:13 a.m.—Local Weather
 - 12:15 a.m.—Sign Off

- CKCW-TV**
- 9:57 a.m.—Station Sign On
 - 10:00 a.m.—National Schools
 - 10:30 a.m.—Nova Scotia School
 - 11:30 a.m.—Friendly Giant
 - 12:00 p.m.—Chaz Helene
 - 12:00 p.m.—Butterfly Square
 - 12:20 p.m.—Across Canada
 - 12:50 p.m.—Tuesday Playbill
 - She Didn't Say NO
 - 2:30 p.m.—At Home with Helen Crocker
 - 3:00 p.m.—To Tell The Truth
 - 3:30 p.m.—Take Thirty
 - 4:00 p.m.—Moment of Truth
 - 4:30 p.m.—Razzle Dazzle
 - 5:00 p.m.—Toytown TV
 - 6:00 p.m.—Supper Club
 - 6:15 p.m.—TV News
 - 6:25 p.m.—TV Weather
 - 6:30 p.m.—TV Sports
 - 6:35 p.m.—Supper Club
 - 7:00 p.m.—Musical Showcase
 - 7:30 p.m.—Dr. Kildare
 - 8:30 p.m.—Summerizing Sports
 - 9:00 p.m.—Red Skelton
 - 10:00 p.m.—Front Page Challenge
 - 10:30 p.m.—Dick Van Dyke
 - 11:00 p.m.—Man and The Issues
 - 11:30 p.m.—The Public Eye
 - 12:00 p.m.—CBC TV News
 - 12:15 a.m.—Viewpoint
 - 12:20 a.m.—Lionel Network News
 - 12:30 a.m.—Station Sign Off

- CFPY**
TUESDAY
- 6:30—News and Weather
 - 6:35—Morning Roundup
 - 6:45—Island Weather, Mar. Temp.
 - 6:46—Morning Roundup
 - 6:55—News and Weather
 - 7:00—Hebrew Christian Hour
 - 7:15—Morning Roundup
 - 7:20—News and Weather
 - 7:35—Farm Report
 - 7:41—Morning Roundup
 - 7:45—Island Weather, Mar. Temp.
 - 7:46—Morning Roundup
 - 7:56—Sports Capsule & Scoreboard
 - 8:01—News
 - 8:11—Weather
 - 8:16—Morning Roundup
 - 8:45—Weather
 - 8:50—Atlantic News Roundup
 - 8:58—Thought For Today
 - 9:00—News and Weather Reports
 - 9:11—Preview Commentary
 - 9:16—Notes and Music
 - 10:00—News and Weather
 - 10:05—Notes and Music
 - 11:00—News and Weather
 - 11:05—Montage Entertainers
 - 11:05—Notes and Music
 - 11:40—Bulletin Board
 - 11:50—Notes and Music
 - 11:55—Atlantic News Roundup
 - 12:00—Weather
 - 12:05—Town and Country Time
 - 12:30—News and Weather
 - 12:45—Town and Country Time
 - 1:00—News and Weather
 - 1:05—Town and Country Time
 - 1:15—What's On Tapp
 - 2:00—News and Weather
 - 2:05—Mostly Music
 - 3:00—News Headlines and Weather
 - 3:00—News Headlines and Weather
 - 4:00—News Headlines and Weather
 - 4:02—Canadian Roundup
 - 4:10—Tops in Pops
 - 5:00—News and Weather
 - 5:05—The Outports
 - 5:25—Marine Weather
 - 5:28—The Outports
 - 6:00—News and Weather
 - 6:15—On Parliament Hill
 - 6:20—Today's Editorial
 - 6:25—Sports Parade
 - 6:30—Business Barometer
 - 6:35—Tonight's Music
 - 7:00—Back to the Bible
 - 7:45—Program Schedule
 - 7:46—Lone Guide Program
 - 8:00—Assignment
 - 8:58—News Headlines and Weather
 - 9:00—Christian Frontiers
 - 9:30—Choirs in Concert
 - 10:00—CBC Nat. News On Parliament Hill and Speaking Personally

Man's Heart Kept Beating After Death

By JOHN BARBOUR
Bait Barbour, Fla. (AP) — Two Dutch surgeons have removed the heart from a dead man, revived it and kept it alive and beating outside the body for more than six hours—the only recorded case where a man was outlived by his heart.

It could be an important new technique to study first-hand the complex electrical and mechanical pump which keeps us alive, the surgeons reported.

It happened at about 2 a.m. one day last January at the University of Amsterdam in Holland. A 70-year-old man had been struck dead by a severe heart attack.

Doctors already had done everything they could to revive their patient, but it was hopeless, explained Dr. Dirk Durieux, a Frits L. Meijer. Death had come shortly after midnight. A relative gave permission for the unusual operation. They had to work quickly while the heart could still be revived.

"We were all emotionally upset," Meijer said, "but we guessed it took about an hour and a half to remove the heart and set it up in the apparatus."

The technique of keeping such organs alive — perfusing them with blood or other nutrient fluids — was first described in the mid-1800s. The Dutch team has been keeping dogs' hearts alive and beating for hours after their removal from the canines. They did their first dog operation about two years ago.

The Dutch surgeons described the human operation and showed a colored movie of an operation on a dog's heart at a meeting of the American Heart Association.

In the human operation, 40 per cent of the dead man's heart had been scarred and damaged by the attack. It could no longer operate as an efficient pump. But it could go through the contractions. And the electrical signals that coordinate the complex beat of the heart were still there to study.

Sometime after dawn, the doctors were too exhausted to continue the experiment — but the heart was still going strong. They terminated the operation.

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RIPLEY'S BELIEVE IT OR NOT



DAILY CROSSWORD

ACROSS	DOWN	18. Borders	28. Wad-
1. Soviet	1. Coronet	6	ing
2. news	2. Foreign	down	bird
3. agency	3. Yellow	20. Kind	36. Licks
5. Scrutinize	4. pigment	of	39. Negative
9. The	4. Samaritan:	of roll	40. Honey-
10. eye-lashes	sym.	23. Ascends	maker
12. Wheeler	5. German	24. Applies	42. Size of
12. Greet	admiral	25. Single	shot
13. Tenant	6. Central	unit	
14. Anger	American	26. Pot	
15. Legisla-	republic	herb	
16. 3.97 inches:	7. Thany, Ger.	28. Wad-	
abbr.	ing	ing	
17. Howitzer,	8. Heckled	29. Metal	
for one	9. Smart	30. R. B.	
19. Competent	11. Cure	31. Stir up	
21. Frost	13. Measuring	cord	
22. Regretted	15. Wharf		
23. Earthen-			
ware			
26. Gusty			
27. Moon			
28. Fabulous			
bird			
29. River:			
Czech.			
30. Historical			
mountain			
34. Author's			
work: abbr.			
35. Dismounted			
37. Metal			
bearing			
rock			
38. Province			
in India			
and			
Pakistan			
40. Insect			
41. Tankard			
42. Stupefy			
with drink.			
43. Railroad			
stops: abbr.			
44. Vegetable			

DAILY CRYPTOQUOTE — Here's how to work it:

One letter simply stands for another. In this sample A is used for the three L's, X for the two O's, etc. Single letters, apostrophes, length and formation of the words are all hints. Each day the code letters are different.

JYNG ILJ TJJT BGIW GJ NYS- SKJT KL GKT GJYSW -RIJWGJ

Yesterday's Cryptoquote: LEGALITY IS NOT THE SAME AS MORALITY.—ADLAI STEVENSON
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OUR BOARDING HOUSE MAJOR HOOPLE



CONTRACT BRIDGE

By B. JAY BECKER

North dealer. Neither side vulnerable.

NORTH
♠ A Q 4 2
♥ A Q 9 7
♦ 9 3
♣ K 7 4

EAST
♠ 10 9 6 5
♥ K 8 5 4
♦ K 8 4
♣ 6 2

SOUTH
♠ K 7 3
♥ J 2
♦ A 10 3
♣ A J 8 5 3

The bidding:
North East South West
1 ♠ Pass 2 ♠ Pass
2 ♥ Pass 2 NT Pass
3 NT

Opening lead—six of diamonds. In many hands declarer must name his play so as to prevent one particular defender from taking the lead. This avoidance of the danger hand is especially common in notrump contracts. The present deal is typical of the problem involved.

West leads a diamond and declarer allows the king to win. South also plays low on the diamond—continuation—but is then forced to take the next one with the ace. The purpose of holding up the ace is to exhaust East of diamonds, so that he will not have one to return if he obtains the lead later.

South takes stock. He can count seven sure winners, but needs nine. The most promising source for additional tricks lies in his long suit, clubs.

However, it is dangerous to attack clubs. Thus, if he plays a club to the king and another one back to the Jack, he may lose the finesse to West, the danger hand. If this were to happen West would cash two diamonds and thus defeat the contract.

Rather than adopt the course, declarer looks for other means of garnering the two tricks he needs. One possibility is that the spades are divided 3-3, in which case dummy's fourth spade would be a trick.

Another possibility lies in a heart finesse which is bound to produce a second heart trick, win or lose. Furthermore, even if the finesse loses, there is a chance that the ten of hearts will fall when the suit is cashed. This would give South the ninth trick he is looking for.

Accordingly, declarer leads the Jack of hearts. When West plays low, South takes a finesse losing the trick to East, the non-danger hand. As the cards happen to lie, the ten of hearts does fall and South makes his nine tricks. The spades fall to break 3-3, but that doesn't matter.

Declarer avoids West by staying away from clubs, his longest suit. That does matter.