take a closer look

Midstreamer vs Producer Perspective on Joint Facilities

Rein Evelein | Joint Interest Representative Calgary | November 10 | 2011



- Three Types of Arrangements Recently Completed by Encana
 - Fee for Service for a New Midstream Facility
 - Relatively Easy to Complete
 - Midstreamer and Producers Share in New Facility
 - New CO&O Required

encana...

- Significantly Complex and Hard to Complete
- Midstreamer and Producers Expand an Existing Facility
 - Have to Work with Existing CO&O
 - Very Complex and Very Hard to Complete

Understanding the Drivers

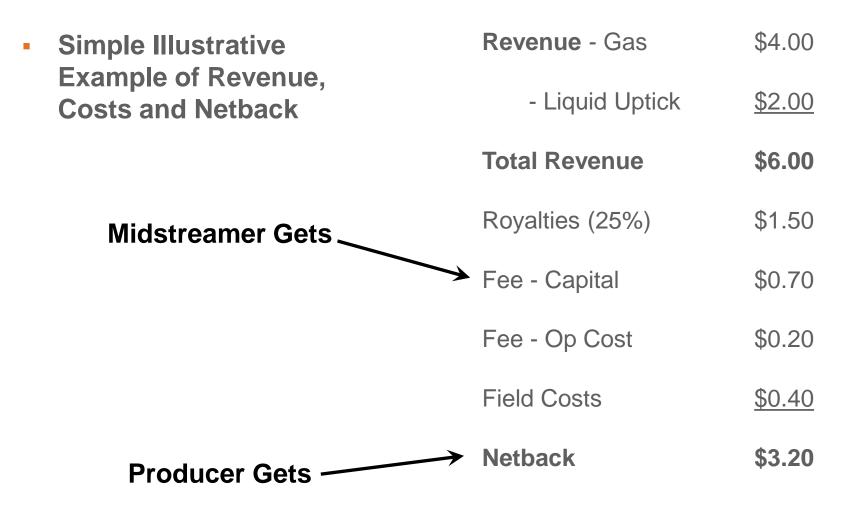
 Simple Illustrative Example of Revenue, Costs and Netback

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Revenue - Gas	\$4.00
- Liquid Uptick	<u>\$2.00</u>
Total Revenue	\$6.00
Royalties (25%)	\$1.50
Fee - Capital	\$0.70
Fee - Op Cost	\$0.20
Field Costs	<u>\$0.40</u>
Netback	\$3.20

Understanding the Drivers





Common Issues that Need Addressing in Building or Revising a CO&O

Owner Substances

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- Typically, Sources of Gas Owned by an Owner
- Midstreamer, as Owner, does not "own" gas

• Streaming Rights

- Midstreamer wants to Fill its WI Capacity first
 - Only Source of Revenue, Needs Return on Capital
- Producer wants Share of 3rd Party Fee Revenue through Excess Pool

Capital vs Operating Costs

- Midstreamer wants to Minimize Capital as much as possible
 - Costs recovered as Op Cost recovered in 1 year
- Producer, of course, wants the Opposite





PEMBINA PIPELINE CORPORATION



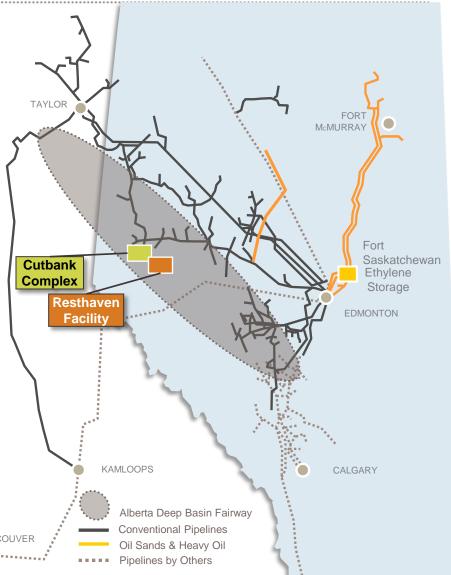
MIDSTREAMER VS PRODUCER PERSPECTIVE ON JOINT FACILITIES

Stuart Taylor Vice President, Gas Services Calgary, AB, November 10, 2011



PEMBINA PIPELINE CORPORATION

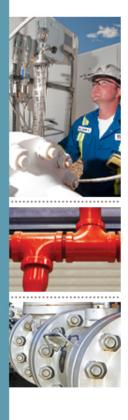
- Pembina Gas Services LP is an indirect subsidiary of Pembina Pipeline Corporation
- NGL infrastructure is strategically positioned in the heart of one of the most active liquids rich gas development plays
- Cutbank Complex: Ownership in 3 sweet gas processing plants with 360 mmcf/d of processing capacity (305 mmcf/d net to Pembina)
 - Currently under expansion: ethane extraction (205 mmcf/d) and shallow cut expansion (50 mmcf/d)
 - Assets connected to Pembina's Peace Pipeline
- Resthaven Facility: Construction of \$230 million 200 mmcf/d enhanced liquids extraction facility at existing shallow cut gas plant and new NGL pipeline
 - Ultimate capacity of 300 mmcf/d





MIDSTREAM DRIVERS: UNDERSTANDING IS KEY

Commitment – volumes and term



- **Predictable cash flow** means lower risk, allows us to employ our low cost of capital.
 - Cash flow is defined by the contracts:
 - Firm vs. IT, Term / FS Profile, Area of Dedication
 - 3rd party streaming rights for jointly owned facilities
- **Operational flexibility** is needed where infrastructure is evolving
- Producers' rights may vary by contract



CONTRACTS – E+P VS. MIDSTREAM

- CO+O Agreement Issues:
 - 3rd party volumes Pure Midstreamers build or participate for the sole purpose of processing third party volumes
 - **Expansion rights -** ability to initiate terms, gathering vs. processing
 - Excess capacity usage Owner priority access to utilize "spare" capacity. Curtailments
- Gas Handling Agreements:
 - **Operational flexibility** utilize spare capacity, results in lower overall cost to producer.
 - Operating costs vs. Capital costs Clear definitions, mechanism for the midstreamer to recover "maintenance" capital











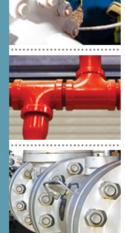






- Fee for Service
 - Midstreamer Expands or Builds New Facility
 - Midstreamer Operates Facility/Finances Capital
 - Producer Commits to Significant Obligation to Underpin the Facility
 - Long Term 10 to 20 Year Take or Pay Commitment







- Midstreamer and Producers Share in New Facility
 - PJVA Standard CO&O does not contemplate a Midstreamer as Owner
 - Revise CO&O to include Midstreamer
 - Build CO&O Fit for Purpose
 - Significant Time Required to "Re-write" CO&O









- Midstreamer and Producers Expand an Existing Producer Owned Facility
 - PJVA Standard CO&O does not contemplate a Midstreamer as Owner
 - Producers have Rights under Existing CO&O
 - Producers unwilling to give up rights
 - Significant Clashes between Producer Drivers and Midstreamer Drivers
 - Significant Compromise Required
 - Revise CO&O to include Compromises
 - Significant Time Required to "Modify" CO&O



MIDSTREAMING AT PEMBINA



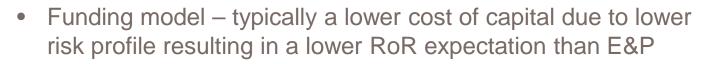
• What we do (fee for service):

- Natural gas gathering and processing
- NGL marketing, storage and transportation
- Enhanced NGL recovery
- Infrastructure development:
 - Fee for service or joint venture



WORKING WITH A MIDSTREAMER

• Advantages:



- Development model building "value-add" facilities that would not be economic for an individual producer
- Fewer drainage concerns
- Free up Producer capital for investment in reserves development



- Opportunities:
 - Opportunity to develop a long-term business relationship as a preferred supplier



MIDSTREAMER COMMUNICATION



- How can Midstreamers and Producers successfully work together?
 - We need to understand each others drivers
 - Growth vs. Maintenance
 - Timing of development plans
 - Risk tolerance
 - Reliability of access to processing facilities
 - Meet often to discuss:
 - Operating conditions and capital plans
 - Successes and failures

