Zen and the Art of a Pipeline Project

Dan E. Dickinson, CPA April 6, 2010

Northrim Bank's Economic Update Luncheon

Dan E. Dickinson CPA

Conventional Wisdom:

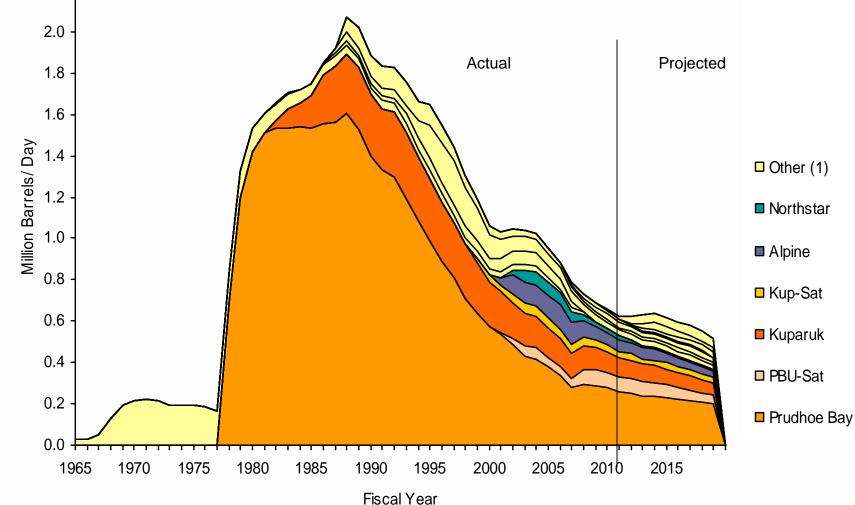
- The state of Alaska needs a fiscal plan to get us through the declining oil production until until we can rely on the riches that will flow from a gas project.
- "The main emphasis of the [fiscal] plan is to facilitate Alaska's transition from a predominantly oil revenue base to an oil and natural gas revenue base. Construction of a pipeline to monetize Alaska's natural gas resources is a key element in providing for the future fiscal and economic stability of the state"

- SOA OMB <u>FY2011 10-Year Plan</u> found on OMB's website <u>http://www.gov.state.ak.us/omb/11_omb/budget/10-Year-Plan/Exec_Summary_10-Year-Plan_12-14-09.pdf</u> accessed April 2, 2010

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Two Things That Are Correct: I

^{2.}Alaska Oil Production, 1965 - 2019



Source: Alaska Department of Revenue, Fall 2009 Revenue Sources Book. Extrapolated (1) Cook Inlet, Duck Island, Milne Point, Greater Point McIntyre, Liberty, Known On & Offshore, Fiord and NPRA.

Two Things That Are Correct II:

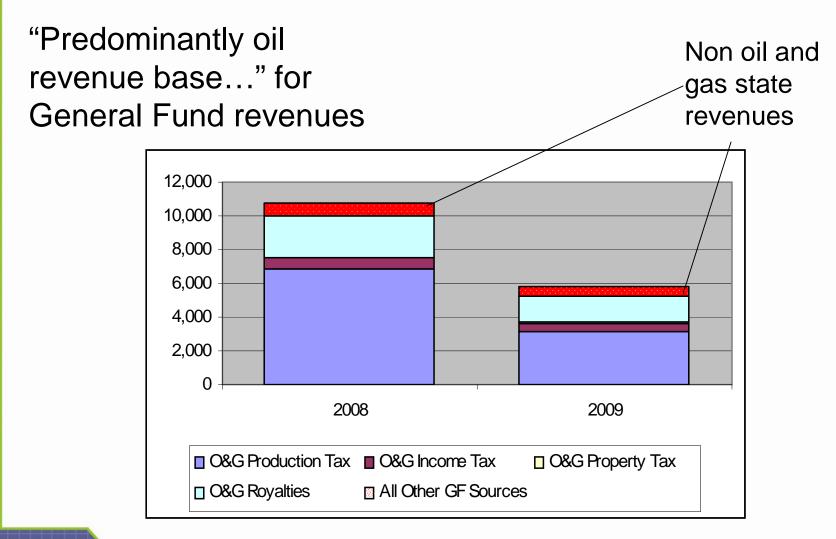
"Predominantly oil revenue base..." for General Fund revenues

figures in \$000	FY 2008	FY 2009
Average ANS WC Price	96.51	68.34
O&G Production Tax	6,882.6	3,112.0
O&G Income Tax	605.8	492.2
O&G Property Tax	81.5	111.2
O&G Royalties	2,460.7	1,481.2
O&G Subtotal	10,030.6	5,196.6
All Other GF Sources	697.6	634.6
Total GF	10,728.2	5,831.2



SOURCE: SOA DOR Fall 2009 Revenue Sources Book

Two Things That Are Correct II:



Dan E. Dickinson CPA SOURCE: SOA DOR Fall 2009 Revenue Sources Book

What I am going to present to you today:

- Instead of a fiscal plan just to get us to a gas pipeline I believe a viable fiscal plan is necessary
 - 1. In case a there is no major project to monetize gas
 - 2. Even if a gasline occurs
 - 3. A viable fiscal plan that puts our economic house in order – that shows the state will survive financially without a gas project – may help us to secure just such a project.
- How economic is a gasline project?
- What is the state of the state's fiscal house?
- What could a fiscal plan accomplish?

What I am going to present to you today:

- This presentation "should in no way be associated with ...orthodox Zen Buddhist practice"
 - Robert M. Pirsig (<u>Zen and the art of Motorcycle Maintenance</u>, Author's note, 1974)
- Notion: One way to achieve something is by overcoming the need for that thing.

- note he also added "It's not very factual on motorcycles either."



• Question: What does it take to build a \$41 billion pipeline?



 Question: What does it take to build a \$41 billion pipeline?

• Answer: \$41 billion

And a CPCN from the FERC.

- What is a CPCN?
- Certificate of Public Convenience and Necessity A certificate issued by FERC that allows the recipient to engage in the transportation and/or sale for resale of natural gas in interstate commerce or to acquire and operate facilities needed to accomplish this.
- How do you get a (1) CPCN and (2) \$41 billion dollars?
- By demonstrating that there is some demand for this project – by signing up customers to make "firm transportation" (FT) commitments



Source: glossary found on FERC's website http://www.ferc.gov/help/glossary.asp#C accessed April 3, 2010

• FERC distinguishes between the

Carrier – the entity that builds the pipeline based on having signed up shippers (Under the AGIA license – TransCanada)

Shippers – Entities that commit to ship gas in the pipeline.

- Shippers could be
 - Purchasers in the lower 48 that have deals to buy the gas.
 - Lessees that have the right to produce the gas on the North Slope (and that intend to sell it at the other end of the pipe.)

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- Open season is when the carriers find out if there are shippers willing to sign up for FT.
- FT is a "take or pay" commitment
- Need FT commitments for financing
 - Essentially the FT commitment by the shippers makes the loan viable for the carrier
- Need FT commitments for a CPCN (?*)
 - Demonstrates demand by shippers for the carrier to go ahead and build the line



- It is a negotiation about how risks -- and rewards -- are shared between shippers and carriers— the outcome of which will be reflected in the tariff terms.
 - Reserve risk (how much gas will be shipped?)
 - Commodity risk (what can the gas be sold for?)
 - Cost overrun risk (how does the gas price relate to the tariff over the life of the pipe?)
- Risk that does not directly involve the carrier:
 - Government take risk (Who gets how much?)



Quickie Math

 Quick back-of the-envelope rule of thumb:
 1 million British Thermal Units (1 mmbtu) is roughly the energy found in
 1 thousand cubic feet of natural gas (1 mcf) (NS gas closer to 1118 btu/cf)

- 1 billion cubic feet (bcf) is one million mcf.
- SI units: **1** gigajoule is roughly 1 mmbtu (actual is 1 gigajoule = 947,817.12 btus)

 Using current estimates of tariff and Henry Hub price: no gas line gets built

 2009 Market Price of Gas (\$mmbtu)
 \$ 3.95

 Tariff AK to AB (inc GTP)
 (3.54)

 AB Hub
 (0.24)

 Tariff AB to L48
 (0.85)

 Gross Value
 \$ (0.68)

 4.5 bcf day
 1,642.5

One year loss (\$millions) (1,116.9)

(AB – Alberta; GTP is a Gas Treatment Plant)

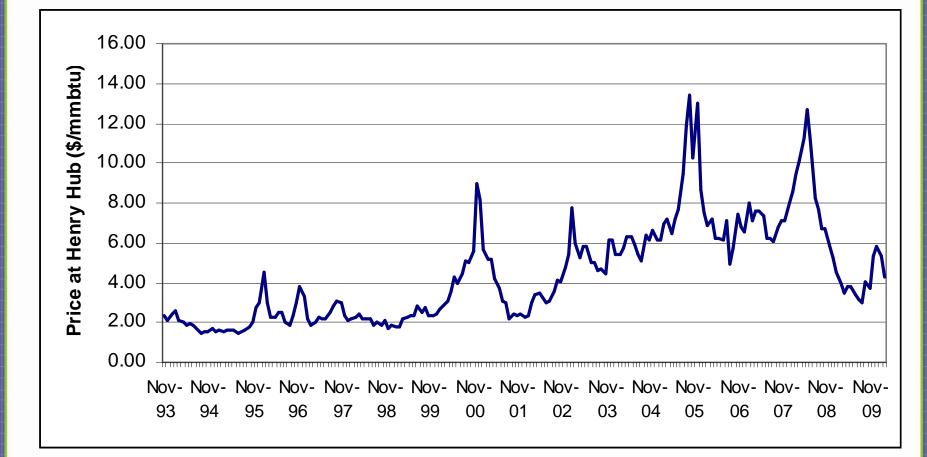
Source for Tariff figures: TransCanada pre Open Season documents

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• Double the gas price, all else stays the same:

2009 Market Price of Gas x 2	\$	7.90
Tariff AK to AB (inc GTP)		(3.54)
AB Hub		(0.24)
Tariff AB to L48		(0.85)
Gross Value	\$	3.27
4.5 bcf day	1	,642.5
One year gain (\$millions)	5	5,371.0
State Take (50%):	2	2,685.5
Producer Take (50%) (before FIT)	2	2,685.5

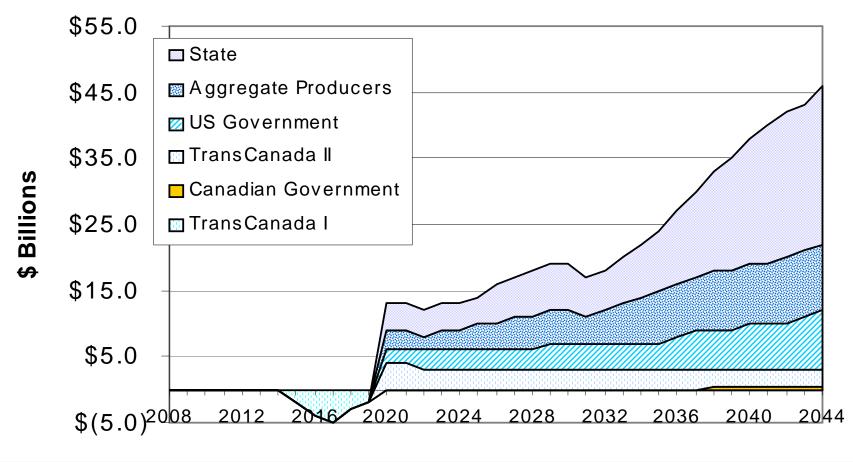




Source: Federal Reserve Bank of St. Louis,

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 Estimated Net Cash Flows from the AGIA Licensed Project (2020 – 2044) for Administration's "Findings"



Source: Black & Veatch, AGIA NPV Analysis Report, (May 3 2008) (page 122)

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 Estimated Net Cash Flows from the AGIA Licensed Project (2020 – 2044) for Administration's "Findings"

all figures in \$billions

	Undiscounted	Discount	Discounted
	Cash	Rate	Cash
State of Alaska	257.00	5.0%	66.1
Federal Government	114.00	5.0%	30.5
TransCanada	57.50	8.8%	4.5
Producers	154.00	10.0%	13.5
Total	582.50		



Source: Black & Veatch, AGIA NPV Analysis Report, (May 3 2008) (page 123,193,173,160,175)

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- What will a major gas project mean for the state;
- DOR Fall 2001 <u>Revenue Sources Book</u>:
- "A 4 billion cubic feet per day Alaska Highway gasline would be expensive costing an estimated 14.3 billion to deliver the gas to Chicago. A gas treatment plant, estimated at \$2.6 billion also would be needed to remove impurities."
- "…An Alaska Highway gasline project under the state's existing fiscal system could yield as much as \$400 million a year to the state's General Fund by Fiscal year 2010."
- "And what if the gas brings in \$4 per thousand cubic feet on the market, instead of \$3.50 as projected in most models? With such favorable economics, the state could receive as much as \$700 million in tax and royalty revenue in Fiscal 2010."

State of Alaska, Dept of Revenue, Tax Division Fall 2001 Revenue Sources Book, (December 21, 2001)

• What if cost overruns double the tariff?

2009 Market Price of Gas x 2	\$	7.90
Tariff AK to AB (inc GTP) x 2		(7.08)
AB Hub		(0.24)
Tariff AB to L48		(0.85)
Gross Value	\$	(0.27)
4.5 bcf day	1	,642.5
One year loss (\$millions)		(443.5)



• What if state "needs" 5 billion to balance budget?

2009 Market Price of Gas x 2	\$	7.90
Tariff AK to AB (inc GTP)		(3.54)
AB Hub		(0.24)
Tariff AB to L48		(0.85)
Gross Value	\$	3.27
4.5 bcf day	1	,642.5
One year gain (\$millions)	5	5,371.0
State Take (75%):	Z	,028.2
Producer Take (25%) (before FIT)	1	,342.7

- The variable that the State can control is State take.
- Case flows to the State are the largest single element of the project. Can an investor estimate those reliably while evaluating the investment?
- Stranded Gas Development Act Contract (2006) was an unsuccessful attempt to nail down an iron clad contract
- Alaska Gasline Inducement Act offers 10 years of fiscal stability on gas production taxes in title 43 chapter 55, but no stability on oil and gas income taxes, oil and gas property taxes, or any other tax outside of title 43, chapter 55 -- unless the legislature decides to change it.



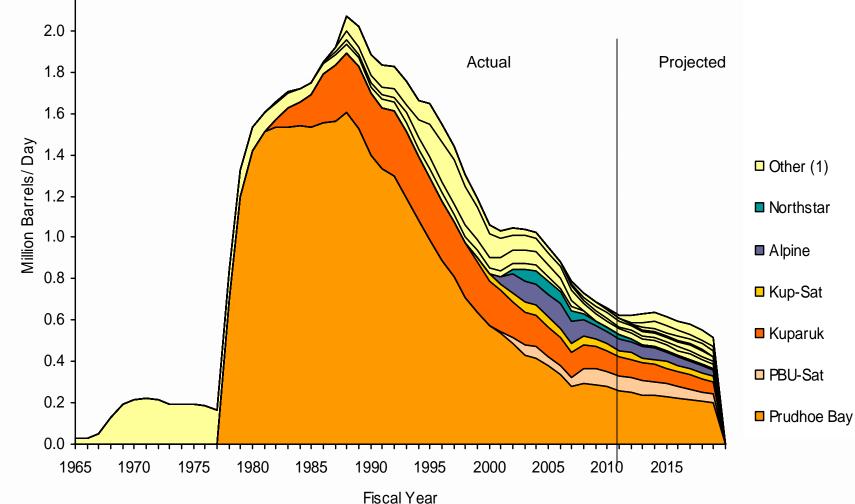
- (1) It may not happen it investors are scared that the commodity price won't cover the tariff.
- (2) Even if a project is built there is a great risk that cash flows may be minimal.
- (3) Conversations between the State and the producers will be a lot more productive if we can demonstrate that
 - State is not desperate for gasline money
 - Can back up promises of fiscal stability



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- Is a fiscal stability promise/contract enough?
- "...even in circumstances where fiscal stability is offered by contractual clause...or by legislation...it is possible for such clauses to be circumvented by governments willing to exploit increased power provided to them by changing market conditions." – Dr. David Wood (<u>Preliminary</u> <u>Report on Fiscal Designs for the Development of Alaska</u> <u>Natural Gas (November 2008) page 118</u>
- Can we make fiscal stability viable by showing that the state doesn't need a major gas project to survive fiscally?

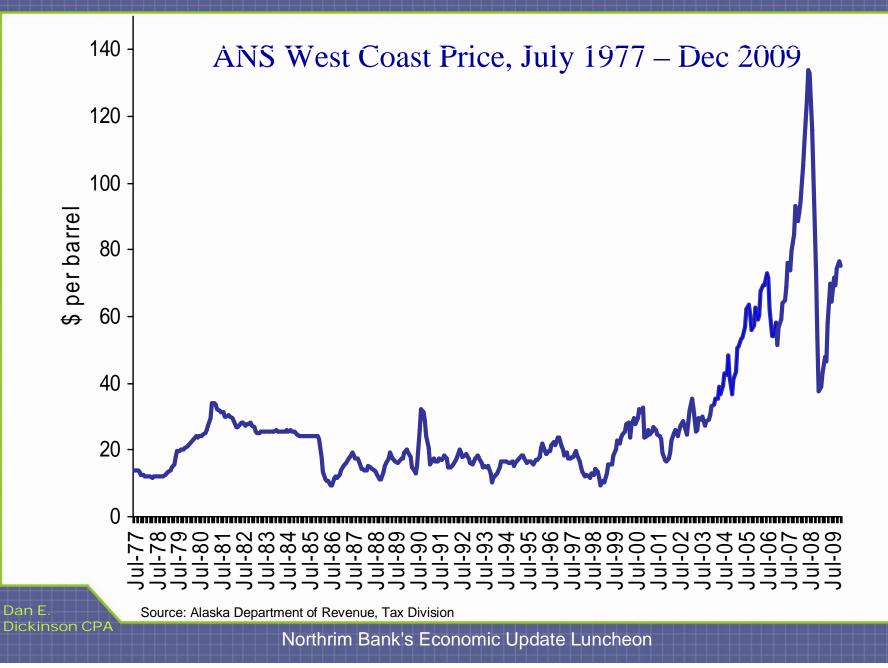
_{2.2}Alaska Oil Production, 1965 - 2019



Source: Alaska Department of Revenue, Fall 2009 Revenue Sources Book. Extrapolated (1) Cook Inlet, Duck Island, Milne Point, Greater Point McIntyre, Liberty, Known On & Offshore, Fiord and NPRA.

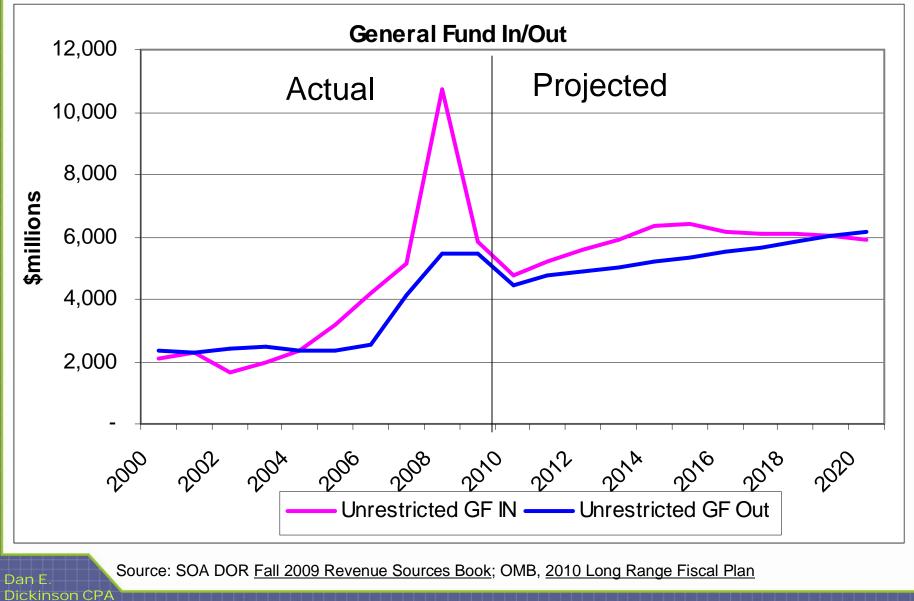
- 1988 -
 - 2 million bbls a day produced in AK
 - Times 365 days
 - Times \$13.50 a barrel market value
 - Equals 10 billion dollars in value at Destination
 - (State take \$2.3 billion)

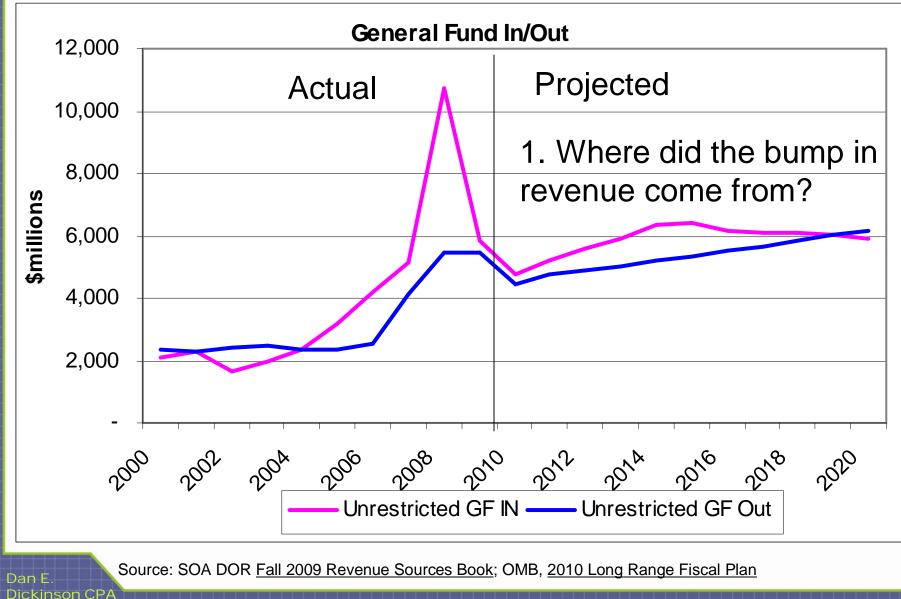


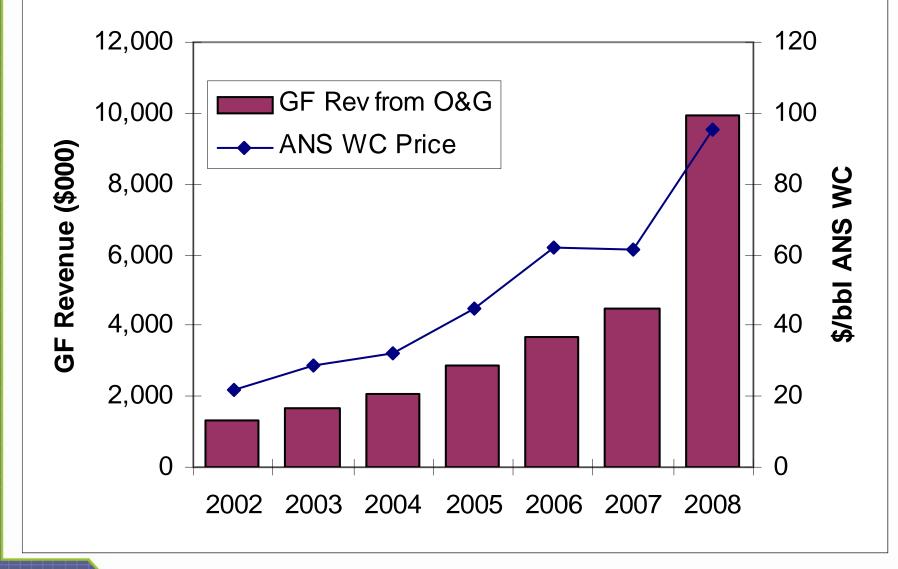


- 1988 -
 - 2 million bbls a day produced in AK
 - Times 365 days
 - Times \$13.50 a bbl market value
 - Equals \$10 billion in value at Destination
- 2008 -
 - .730 million bbls a day produced in AK
 - Times 365 days
 - Times \$100 a bbl market value
 - Equals \$25 billion in value at Destination
 - (State Take: \$11.3 billion)

Source: SOA DOR Fall 2009 Revenue Sources Book, Fall 2000 Revenue Sources Book, and DOR price series





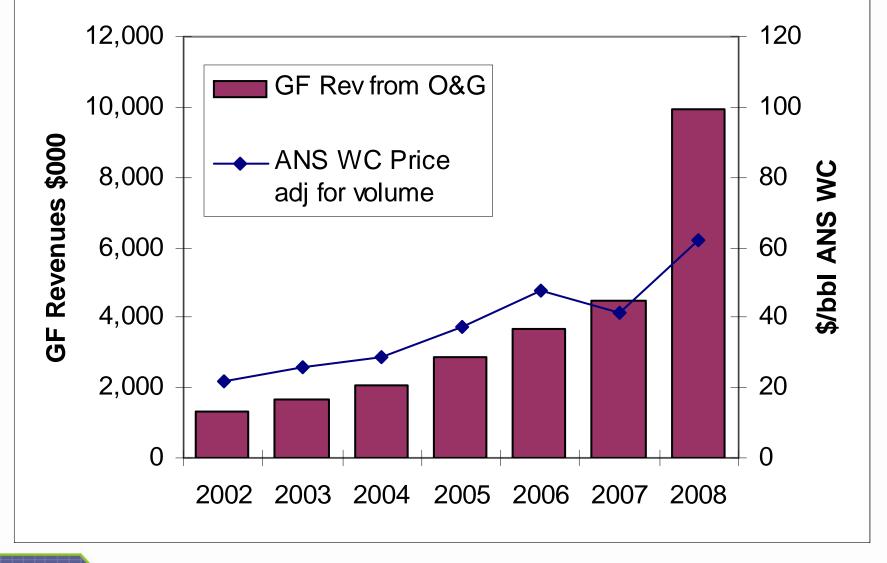


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Source: SOA DOR Fall 2009 Revenue Sources Book

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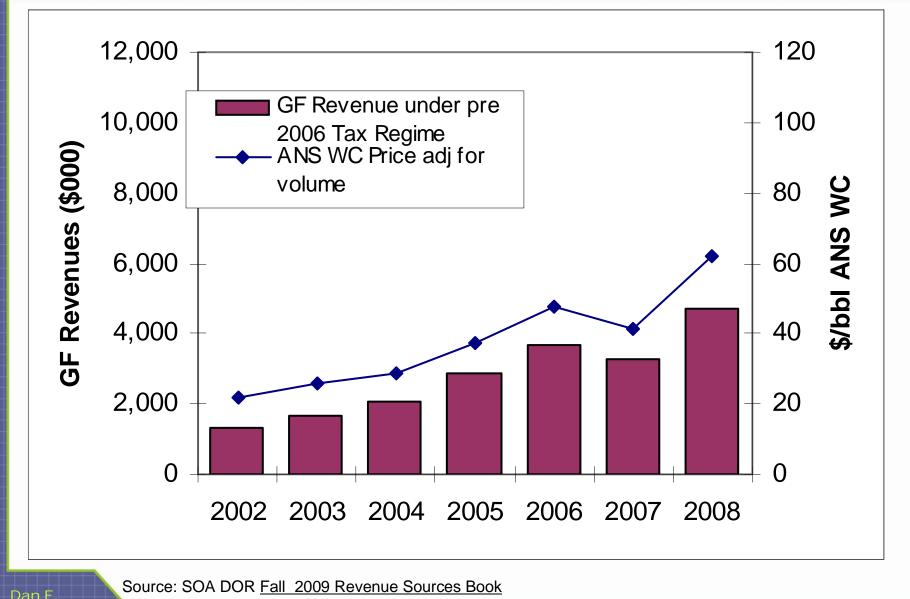
<u>Dickinson</u> CP



Source: SOA DOR Fall 2009 Revenue Sources Book

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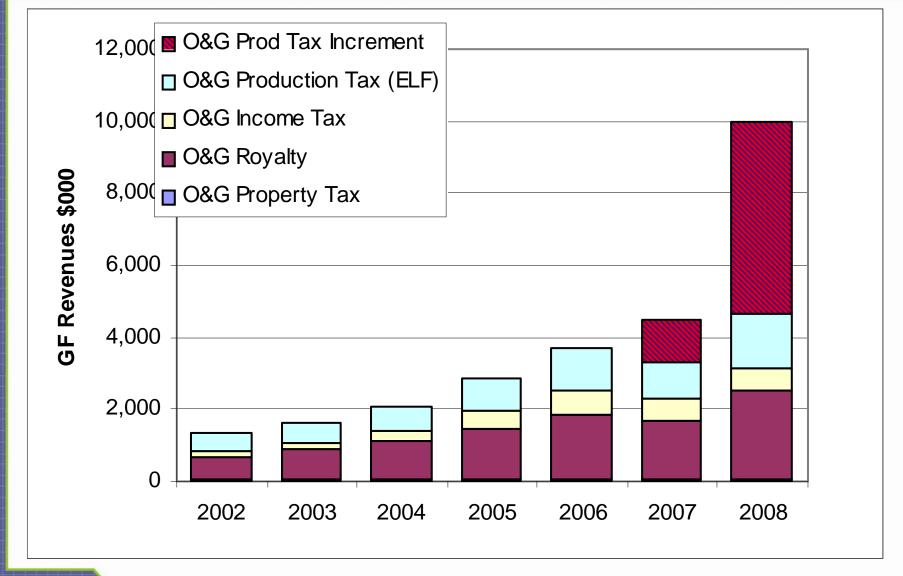
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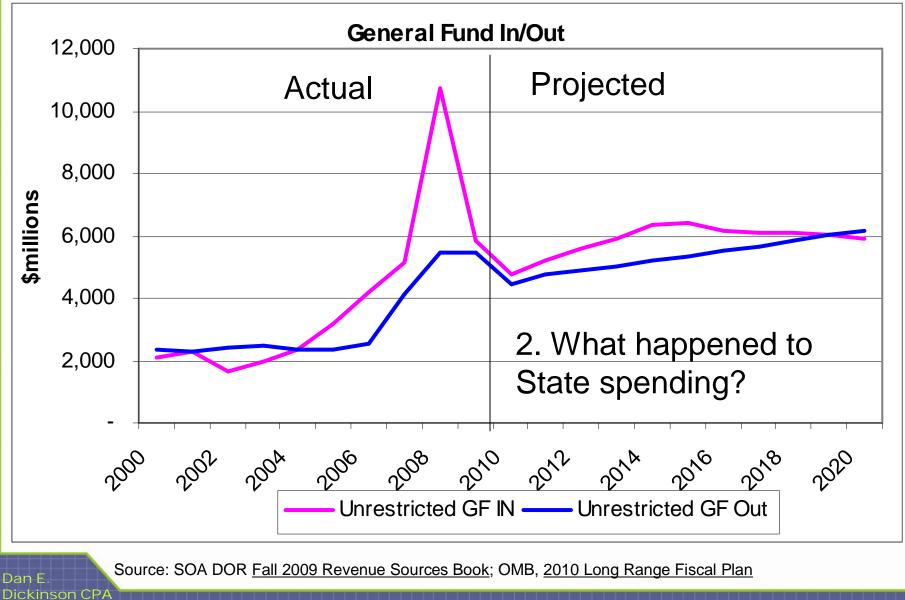
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Source: SOA DOR Fall 2009 Revenue Sources Book

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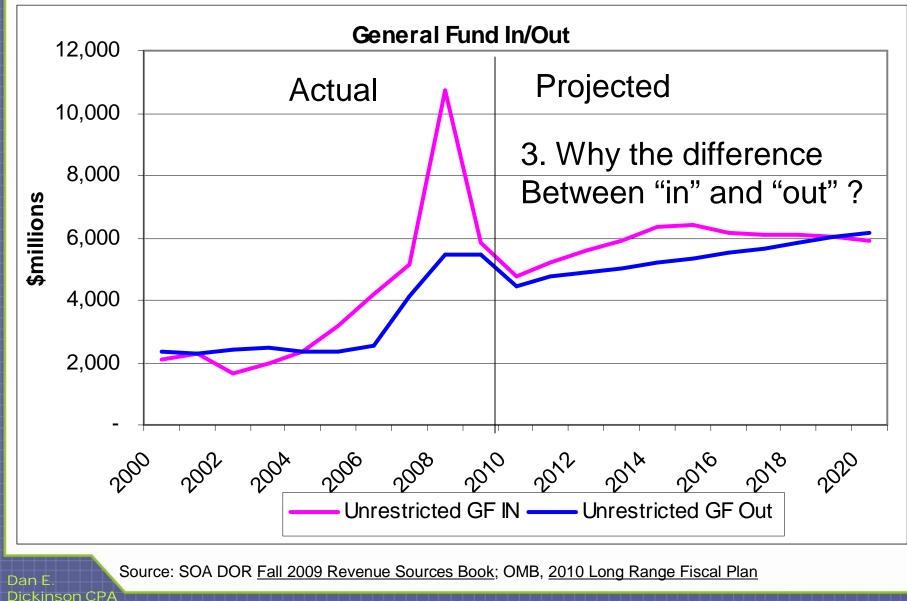
What is the State of the State's Fiscal House?

	FY 2006	FY 2010	% change				
Operating Budget:			-				
Agency Operations	1,298.2	1,833.6	141%				
K-12 Formulas Other Formula Prog	845.7	1,060.7 544.1	190%				
Debt Service	52.0	140.9	271%				
Fund Capitalization	18.2	24.1	132%				
Retirement		284.7					
Rvn Shrng & Lcl Gov Spprt		60.0					
Oil & Gas Investment Credits		180.0					
Resource Rebate		5.4					
New Legislation	11.4	-					
Capital Budget:							
Capital	338.7	173.1	51%				
Total	2,564.2	4,306.6	168%				
Estimated Anticipated Suppleme	ntal*	108.6					
		4,415.2					
*or reconciliation between OMB & Leg find docs)							
2006 Inflated at 3% for 4 years	2564.2	2886.03	113%				
Dan E. Source: SOA Log Einenen, EV 2006 & EV 2010 E	incol Summeric						
Dickinson CPA Source: SOA Leg Finance, FY 2006 & FY 2010 F							

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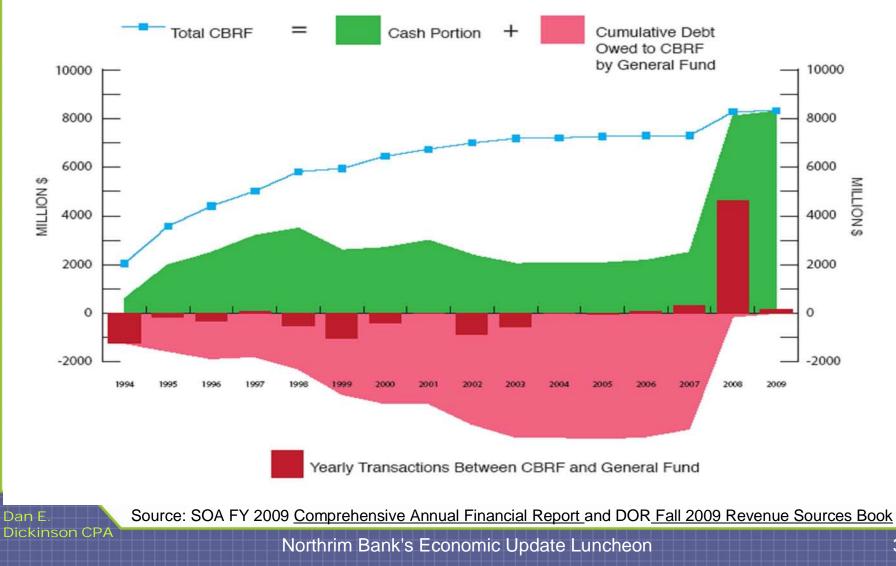
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What is the State of the State's Fiscal House ?



What is the State of the State's Fiscal House?

Constitutional Budget Reserve Fund: Composition



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- (1) Do we have the fiscal tools to survive without a gasline?
- (2) Do we have the fiscal tools to survive with minimal cash flows in from a gas pipeline project?
- (3) Do we have the fiscal tools so that in a negotiation about fiscal stability
 - We can walk away from a negotiation?
 - We can accept reasonable limits on state take that may match our limited risk?
- Assets
- Broad Based Taxes

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• Cash & Investments on hand at the end of last year

			Cash And
CAFR		Inve	estments as of
Sched	all figures in \$000	J	une 30 2009
1.11	Governmental Funds		
	General Fund (inc CBRF)	\$	13,074,533
	Permanent Fund		31,647,812
	Other non-Major Gov Funds		1,143,250
		\$	45,865,595
1.41	Separate Component Funds		
	AHFC		597,912
	AEA	\$	490,479
	AMHTA		402,740
	AIDEA		349,593
	Other Comp Funds (inc UAA)		260,246
		\$	2,100,970
1.21	Proprietary Enterprise & Internal S	ervice l	Funds
		\$	775,037

Dan E. Source: SOA I Dickinson CPA

Source: SOA FY 2009 Comprehensive Annual Financial Report

 Collections sourced to Alaska in federal fiscal year 2009 by IRS

all figures in \$000	2009	O Collections
Business Income Taxes	\$	222,515
Individual; Withheld & FICA		3,350,707
Individual; Not Withheld & SECA		984,895
Other		112,039
Total	\$	4,670,156

Dan E. Dickinson CP. Source: IRS, Internal Revenue Service Data Book, 2009 SOI Table 5

• Business in +billion \$ sectors sourced to Alaska in 2007

		Sales, Shipments, Receipts, Revenues		
NAICS	all figures in \$000		Business Done	
21	Mining quarrying and oil and gas			
	extraction	\$	21,748,761	
23	Construction		6,184,649	
42	Wholesale trade		7,354,708	
44-45	Retail Trade		9,303,387	
ΓA	Professional, scientific and			
54	technical services		2,041,933	
	Administrative, support, waste			
56	management and remediation			
	services		2,095,976	
62	Health Care and Social Services		4,662,632	
72	Accomodation & Food Services		1,851,293	
	Sum of Selected Sectors	\$	55,243,339	



Source: US Census 2007 Economic Survey, found at Census website, accessed April 3, 2010

- According to the FTA Alaska has the highest per capita State Tax burden in the country:
 - 2008 State Tax Revenue

	Total Taxes			% of		
	(\$ million)	Per Capita	Rank	Pers. Income	Rank	
Alabama	9,071	1,946	42	6.0	39	
Alaska	<mark>8,425</mark>	<mark>12,276</mark>	<mark>1</mark>	<mark>30.9</mark>	<mark>1</mark>	
Arizona	13,706	2,109	39	6.6	34	
Arkansas	7,531	2,637	19	8.8	7	
California	117,362	3,193	12	7.7	14	
Colorado	9,625	1,949	41	4.8	48	
Connecticut	13,368	3,818	5	7.0	26	
Delaware	2,931	3,357	10	8.5	10	
Florida	35,850	1,956	40	5.1	46	

Source: From Federation of Tax Administrators' website taxadmin.org, (accessed March 18 2010)

revised June 25, 2009

 According to the US Census AK ranks between "Taxachusetts" and New Jersey in per capita state taxes:

Rank	State	Amount
	United States	2,199.11
1	Vermont	3,600.16
2	Hawaii	3,477.93
3	Wyoming	3,417.77
4	Connecticut	3,300.49
5	Minnesota	3,093.93
6	Delaware	3,068.98
7	Massachusetts	2,818.39
<mark>8</mark>	Alaska	2,798.66
9	New Jersey	2,781.33
10	California	2,724.31

Dan E. Dickinson CPA US Bureau of the Census: States Ranked by Total State Taxes and Per Capita Amount: 2005 (Per capita amounts in dollars)

 According to the Tax Foundation Alaska has the lowest per capita Tax State Tax burden in the country:

Table I

State and Local Tan Burdon by Bank Final Year 2008

State-Local

State	Tax Burden	Bank			
US average	9.7%	-			
New Jersey	11.8%	1	Oregon	9.4%	28
New York	11.7	2	Michigan	9.4	27
Connectiout	11.1	3	Indiana	9.4	28 29
Maryland	10.8	4	West Virginia	9.3	
Hawal	10.6	5	Hinois	9.3	30
California	10.5%	6	104/0	9.3%	31
Ohio	10.4	7	Missouri	9.2	32
Verniont	10.3	8	North Dakota	9.2	33
Maconsin	10.2	.2	Colorado	9.0	34 35
Fhode Island	10.2	10	Washington	8.9	
Pennsylvania	10.2%	11	Mississippi	8.9%	36
Minnesota	10.2	12	South Carolina	8.8 8.6	37 38
daho	10.1	13	Alabama		30
Arkansas	10.0	14	New Medico	8.6	39
Maine	10.0	15	Montana	8.6	40
Georgia	0.0%	16	Arizona	8.5%	41
Nabsaska	9.8	17	Louisiana	8.4	42
Virginia.	9.8	18	Texas	8.4 8.3	43 44
Oklahoma	9.8	19	Tennessee South Salata		45
North Carolina	9.8	20	South Dakota	7.9	
Kansas	9.6%	21 22	New Hampshire Florida	7.6%	49.42
Utah	9.6			7.4	48
Massachuseits	9.5	23	Wyoming	7.0	
Delaware	9.5	24	Nevada	6.6	49
Kentucky	9.4	25		10.000	
			Dist of Columbia	10.3%	(8)



Source: Prante, Gerald Tax Foundation Special Report No. 163 (Aug 2008) page 2

Table 6

State and Local Tax Collections Per Capita Fiscal Year 2008

	Total State and Local Tax Collections		Taxes Collected from Residents		Taxes Collected from Non-resident	в
State	(per capita)	Rank	(per capita)	Rank	(per capita)	Rank
US average	\$4,294	-	\$ 2,924	-	\$ 1,370	-
Alabama.	\$ 2,949	50	\$ 1,977	42	\$ 972	48
Alaska	7,864	1	1,433	50	6,431	1
Arizona	3,286	43	2,170	35	1,116	36
Arkansas	3,284	44	2,815	29	969	49
California	4,752	10	3,683	6	1,069	39

Source: Prante, Gerald Tax Foundation Special Report No. 163 (Aug 2008) page 9

- House Joint Resolution 6 Constitutional Amendment: Gas Revenue Endowment Fund
- sponsored by Rep. Mike Hawker
- Proposing amendments to the Constitution of the State of Alaska creating and relating to the gas revenue endowment fund, relating to the fund, limiting appropriations from the fund based on an average percent of the market value, relating to the deposits to the permanent fund, and relating to deposits to the budget reserve fund"
- Sponsor Statement
 House Joint Resolution 6 answers the Alaskan Prayer:
 "Lord, please grant me another Prudhoe Bay; I promise not to fritter this one away."



Source: BASIS, 26th legislature

Take Away

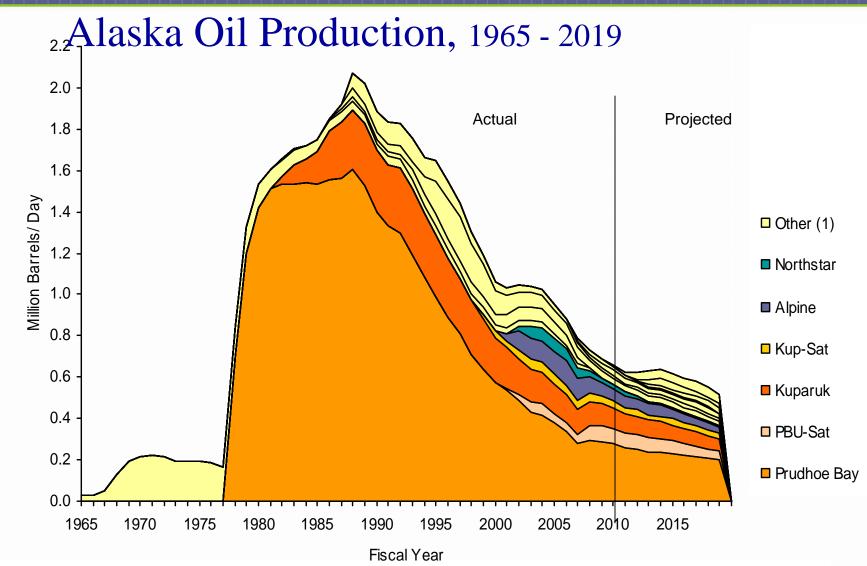
- We, as a state, have made a good start to putting out fiscal house in order. We need to finish that by designing and implementing a fiscal plan that
- (1) will cover the State's needs if there is no gas line project.
- (2) will cover the State's needs if a gasline project is built, but isn't a cash cow.
- (3) Even enables that project by allowing the State to negotiate rational, not desperate, terms for investment in a major gas project





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Source: Alaska Department of Revenue, Fall 2009 Revenue Sources Book. Extrapolated (1) Cook Inlet, Duck Island, Milne Point, Greater Point McIntyre, Liberty, Known On & Offshore, Fiord and NPRA.