SEVENTH APPROXIMATION DATA FORM FOR CONVENTIONAL ASSESSMENT UNITS (Version 6, 9 April 2003)

IDENTIFICATION INFORMATION

Assessment Geologist: R.G. Stanley						Date:	30-Mar-11
Region: North America						Number:	5
Province: Southern Alaska						Number:	5003
Total Petroleum System: Cook Inlet Composite Oil and Gas						Number:	500301
Assessment Unit:	Mesozoic S	Sandstone Oil	and Gas			Number:	50030102
Based on Data as of:							
Notes from Assessor:							
	CHARA	CTERISTICS	OF ASSES	SMENT UNI	т		
Oil (<20,000 cfg/bo overall)	<u>or</u> Gas (<u>></u> 20,	000 cfg/bo ov	erall):	0			
What is the minimum accum (the smallest accumulation the		tial to be adde		nmboe grown es)			
No. of discovered accumulat	ions exceedin	na minimum si	ze:	Oil:	0	Gas	0
Established (>13 accums.)		Frontier (1-13				(no accum	
,		,	′ —			,	
Median size (grown) of disco	vered oil accu	ımulations (m	mbo):				
		1st 3rd		2nd 3rd		3rd 3rd	
Median size (grown) of disco	vered gas acc						
		1st 3rd		2nd 3rd		3rd 3rd	
Assessment-Unit Probabilities: Attribute 1. CHARGE: Adequate petroleum charge for an undiscovered accum. ≥ minimum size: 2. ROCKS: Adequate reservoirs, traps, and seals for an undiscovered accum. ≥ minimum size: 3. TIMING OF GEOLOGIC EVENTS: Favorable timing for an undiscovered accum. ≥ minimum siz 4. Assessment-Unit GEOLOGIC Probability (Product of 1, 2, and 3): 1. 0						1.0 1.0 1.0	
No. of Undiscovered Accur	mulations: ⊢	DISCOVERED How many und ncertainty of fi	liscovered	accums. exist		∍ min. siz	e?:
Oil Accumulations:	mir	nimum (>0)	1	mode	25	maximum	100
Gas Accumulations:		nimum (>0)	1	mode	25	maximum	100
Sizes of Undiscovered Acc		What are the				ums?:	
Oil in Oil Accumulations	(mmbo):	minimum	0.5	median	1.5	maximum	300
Gas in Gas Accumulatio	,	minimum	3	median	9	maximum	
	` 3/						

AVERAGE RATIOS FOR UNDISCOVERED ACCUMS., TO ASSESS COPRODUCTS

(uncertainty of fixed but unknown values)

(uncertainty of	nxea bat unkni	wii value	>)		
Oil Accumulations:	minimum		mode		maximum
Gas/oil ratio (cfg/bo)	250		500		750
NGL/gas ratio (bngl/mmcfg)	5		10		15
Gas Accumulations:	minimum		mode		maximum
Liquids/gas ratio (bliq/mmcfg)	5		10		15
Oil/gas ratio (bo/mmcfg)					10
SELECTED ANCILLARY DATA (variations in the propert Oil Accumulations: API gravity (degrees) Sulfur content of oil (%) Depth (m) of water (if applicable) Drilling Depth (m)				ATIONS F25	maximum 55 1.2 100 maximum 10000
Gas Accumulations: Inert gas content (%) CO ₂ content (%) Hydrogen-sulfide content (%) Depth (m) of water (if applicable)	minimum 0 0 0		mode 0.8 0.1 0 35		maximum 1.7 0.2 0 100
Drilling Depth (m)	minimum 300	F75	mode 5000	F25	maximum 10000

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ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO STATES

Surface Allocations (uncertainty of a fixed value)

1.	Alaska		represents_	100.00	area % of th	ie AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode 100.00		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity			100.00	_	
2.			represents		area % of th	ie AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity					
3.			_represents_		area % of th	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Ga	s in Gas Accumulations: Volume % in entity					
4.			represents_		area % of th	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity					
5.			_represents_		area % of th	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity					_
6.			_represents_		area % of th	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Ga	s in Gas Accumulations: Volume % in entity					

7		represents		area % of th	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
8		represents_		area % of th	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
9		represents_		area % of th	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
10		represents_		area % of th	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
11		represents		area % of th	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
12		represents		area % of th	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO LAND ENTITIES Surface Allocations (uncertainty of a fixed value)

1. Federal Lands		represents_	20.79	area % of the	AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode 20.79		maximum
Gas in Gas Accumulations: Volume % in entity			20.79		
2. Private Lands		_represents_	11.00	_area % of the	AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode 11.00		maximum
Gas in Gas Accumulations: Volume % in entity			11.00		
3. Tribal Lands		represents_	10.20	area % of the	- AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode 10.20		maximum
Gas in Gas Accumulations: Volume % in entity		_	10.20	_	
4. Other Lands		represents_	0.59	area % of the	AU
4. Other Lands Oil in Oil Accumulations: Volume % in entity	minimum	represents_	0.59 mode 0.59	area % of the	AU maximum
Oil in Oil Accumulations:	minimum	represents_	mode	area % of the	
Oil in Oil Accumulations: Volume % in entity Gas in Gas Accumulations:	minimum	represents_	mode 0.59	area % of the	maximum
Oil in Oil Accumulations: Volume % in entity Gas in Gas Accumulations: Volume % in entity	minimum	 	mode 0.59 0.59	- - –	maximum
Oil in Oil Accumulations: Volume % in entity Gas in Gas Accumulations: Volume % in entity 5. AK State Lands Oil in Oil Accumulations:		 	mode 0.59 0.59 26.13 mode	- - –	maximum
Oil in Oil Accumulations: Volume % in entity Gas in Gas Accumulations: Volume % in entity 5. AK State Lands Oil in Oil Accumulations: Volume % in entity Gas in Gas Accumulations:		 	mode 0.59 0.59 26.13 mode 26.13	- - –	AU maximum
Oil in Oil Accumulations: Volume % in entity Gas in Gas Accumulations: Volume % in entity 5. AK State Lands Oil in Oil Accumulations: Volume % in entity Gas in Gas Accumulations: Volume % in entity		represents_	mode 0.59 0.59 26.13 mode 26.13	area % of the	AU maximum

7		represents_		area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode	_ ,	maximum
Gas in Gas Accumulations: Volume % in entity					
8		represents_		_area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
9.		represents_		area % of t	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum	. <u> </u>	mode		maximum
Gas in Gas Accumulations: Volume % in entity					
10		represents_		_area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
11		represents_		area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum	. <u> </u>	mode		maximum
Gas in Gas Accumulations: Volume % in entity					
12		represents_		_area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum	. <u> </u>	mode		maximum
Gas in Gas Accumulations: Volume % in entity		_		_	

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO FEDERAL LAND SUBDIVISIONS Surface Allocations (uncertainty of a fixed value)

1.	Bureau of Land Management (BLM)		represents	0.30	area % of the	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode 0.30		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity			0.30		
2.	BLM Wilderness Areas (BLMW)		_represents_		area % of the	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity					
3.	BLM Roadless Areas (BLMR)		_represents_		area % of the	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity					
4.	National Park Service (NPS)		_represents_	2.89	area % of the	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode 2.89		maximum
Gas	s in Gas Accumulations: Volume % in entity			2.89		
5.	NPS Wilderness Areas (NPSW)		_represents_		area % of the	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
<u>Ga</u>	s in Gas Accumulations: Volume % in entity					
6.	NPS Protected Withdrawals (NPSP)		_represents_		area % of the	e AU
Oil	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas	s in Gas Accumulations: Volume % in entity					

7. US Forest Service (FS)		_represents_	0.09	area % of the	: AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode 0.09		maximum
Gas in Gas Accumulations: Volume % in entity			0.09		
8. USFS Wilderness Areas (FSW)		_represents_		_area % of the	AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
9. USFS Roadless Areas (FSR)		_represents_		_area % of the	: AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
10. USFS Protected Withdrawals (FSP)		_represents_		_area % of the	. AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
11. US Fish and Wildlife Service (FWS)		_represents_	16.91	area % of the	. AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode 16.91		maximum
Gas in Gas Accumulations: Volume % in entity			16.91		
12. USFWS Wilderness Areas (FWSW)		_represents_		_area % of the	. AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					

13. USFWS Protected Withdrawals (FWSP)		_represents_		area % of the	e AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
14. Wilderness Study Areas (WS)		_represents_		_area % of the	e AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
15. Department of Energy (DOE)		_represents_		area % of the	e AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
16. Department of Defense (DOD)		_represents_	0.61	area % of the	e AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode 0.61		maximum
Gas in Gas Accumulations: Volume % in entity			0.61		
17. Bureau of Reclamation (BOR)		_represents_		area % of the	e AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
18. Tennessee Valley Authority (TVA)		_represents_		area % of the	e AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					

19. Other Federal		represents		area % of the AU	
Oil in Oil Accumulations: Volume % in entity	minimum	mode		maximum	
Gas in Gas Accumulations: Volume % in entity					
20	represe	nts	_area % of tl	he AU	
Oil in Oil Accumulations: Volume % in entity	minimum 	mode		maximum	
Gas in Gas Accumulations: Volume % in entity					

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ECOSYSTEMS Surface Allocations (uncertainty of a fixed value)

1.	Alaska Mountains (AKMT)		represents_	9.91	area % of the	e AU
Oil i	in Oil Accumulations: Volume % in entity	minimum		mode 9.91		maximum
Gas	s in Gas Accumulations: Volume % in entity			9.91		
2.	Chugach-St. Elias Mountains (CSMT)		_represents_	0.03	_area % of the	e AU
Oil i	in Oil Accumulations: Volume % in entity	minimum		mode 0.03		maximum
Gas	s in Gas Accumulations: Volume % in entity			0.03		
3.	Cook Inlet Lowlands (CILL)		_represents_	58.77	_area % of the	e AU
Oil i	in Oil Accumulations: Volume % in entity	minimum		mode 58.77		maximum
Gas	s in Gas Accumulations: Volume % in entity			58.77	- <u>-</u>	
4.			represents_		area % of the	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas	s in Gas Accumulations: Volume % in entity					
5.			_represents_		_area % of the	e AU
Oil i	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas	s in Gas Accumulations: Volume % in entity					
6.			_represents_		area % of the	e AU
<u>Oil</u>	in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas	s in Gas Accumulations: Volume % in entity				- -	

7		represents_		area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode	_ ,	maximum
Gas in Gas Accumulations: Volume % in entity					
8		represents_		_area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
9.		represents_		area % of t	ne AU
Oil in Oil Accumulations: Volume % in entity	minimum	. <u> </u>	mode		maximum
Gas in Gas Accumulations: Volume % in entity					
10		represents_		_area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum		mode		maximum
Gas in Gas Accumulations: Volume % in entity					
11		represents_		area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum	. <u> </u>	mode		maximum
Gas in Gas Accumulations: Volume % in entity					
12		represents_		_area % of t	he AU
Oil in Oil Accumulations: Volume % in entity	minimum	. <u> </u>	mode		maximum
Gas in Gas Accumulations: Volume % in entity		_		_	