

AOGCC Pool Statistics

Kustatan Field, Undef Disposal Pool

Operator: Forest Oil Company
Discovery Well: Forcenergy Inc.
 Kustatan Field No. 1
 Permit #200-153
 API No. 50-133-20496-00-00
 Sec. 04, T07N, R14W, SM
 Depth: 12,300' MD / 12,300' TVD
 April 1, 2003

Status: Disposal
Location: Cook Inlet Basin [Area Loc. Map](#)
Orders: [Complete List](#)

Summary: Forest Oil Corporation has used the unsuccessful exploration well Kustatan Field No. 1 ("KF 1") to conduct disposal operations. The target injection zone is in the middle Tyonek Formation ("Tyonek") at depths below 6500' measured depth ("MD") and true vertical depth ("TVD"). The Tyonek Formation is a Tertiary-aged fluvial deposit consisting of fine- to medium-grained sandstones with interbedded siltstones, claystones, and coals, which tend to be laterally continuous over several miles. The sandstone layers within the injection zone range in thickness up to 100', and have up to 27% porosity and 50 millidarcies permeability. The interbedded siltstones, claystones, and coals provide vertical confinement for injected fluids. Approximately 40% of the 1000-foot interval overlaying the injection zone consists of laterally continuous, confining lithologies. These confining lithologies also comprise approximately 20% of the middle Tyonek Formation underlying the proposed injection interval. Disposal operations in KF 1 will not impact production, as the nearest development wells are more than 2-1/2 miles away.

Injection operations began in April 2003, reached a maximum daily rate of 3,433 barrels of water per day in May 2003, and then declined to 1,422 barrels of water per day by January 2004. Additional disposal injection occurred in April, May, September, October and November 2004. There have been no reported injection operations within this pool since November 2004.

[Strat Column](#)

Production: [Disp Chart](#) [Disp Report](#) [Disp Data](#)

	Gas (mcf)	Water (bbls)	Disposed Fluids (bbls)
Cumulative	0	0	475,689
2001 Total	0	0	0
2002 Total	0	0	0
2003 Total	0	0	411,169
2004 Total	0	0	63,920
2003 Rate (/d)	0	0	2,069
2004 Rate (/d)	0	0	1,639
Change (%)	-	-	-21%

Continued: 1 > 2

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Field Development Information:

Type Well	Status	Wells In Field				
		2004	2003	2002	2001	2000
Producer	Gas	0	0	0	0	0
Injector	Disposal	1	1	1	0	0
Non-Operating	Suspended	0	0	0	0	0
	Abandoned	0	0	0	0	0
Total		1	1	1	0	0

Permitted Wells in Field:

Type Well	Status	2004	2003	2002	2001	2000
Development	New	0	0	0	0	0
	Sidetrack	0	0	0	0	0
	Multilateral	0	0	0	0	0
Service	New	0	0	0	0	0
Exploration	New	0	0	0	0	1
Total		0	0	0	0	1

Active Completions in Pool (Month of December):

Type Well	Status	2004	2003	2002	2001	2000
Gas Producer	Flowing	0	0	0	0	0
	Other	0	0	0	0	0
	Shut-In	0	0	0	0	0
Disposal	Disposal Injector	1	1	1	0	0
	Shut-In	0	0	0	0	0
Total		1	1	1	0	0

Reservoir Properties: Middle Tyonek Formation

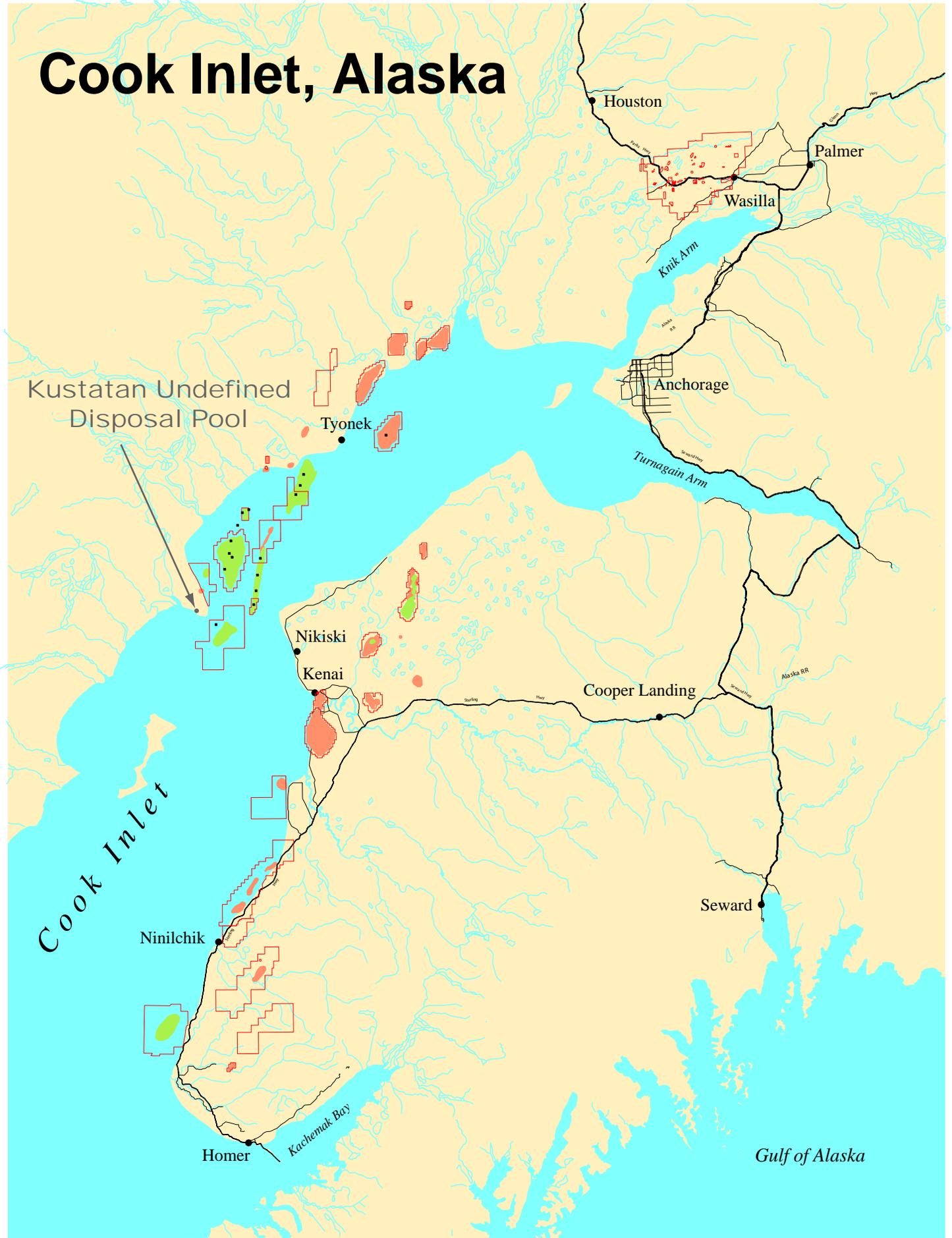
Description	2004	2003	2002	2001	2000
Reference Datum - ft. below sea level	6000	6000	6000	-	-
Temperature - ° F	125	125	125	-	-
Porosity - %	27	27	27	-	-
Permeability - md	-	-	-	-	-
Swi - %	80	80	80	-	-
Orig. Press. - psi	2675	2675	2675	-	-
Curr. Reservoir Press. - psi	-	-	-	-	-
Curr. Reservoir Press. - Test Date	-	-	-	-	-
Gas Specific Gravity (Air = 1.0)	-	-	-	-	-
Gross Pay - ft.	-	-	-	-	-
Net Pay - ft.	-	-	-	-	-

State of Alaska, Oil and Gas Conservation Commission

Injection History for: KUSTATAN, UNDEFINED WDSP Pool

<u>Month</u>	<u>DaysInj</u>	<u>Liquid (BBL)</u>	<u>Gas (MCF)</u>	<u>Injecting Wells</u>
Apr 2003	17	36835	0	1
May 2003	26	89264	0	1
Jun 2003	25	69237	0	1
Jul 2003	14	44416	0	1
Aug 2003	6	12680	0	1
Sep 2003	25	37810	0	1
Oct 2003	28	36660	0	1
Nov 2003	27	40410	0	1
Dec 2003	31	44457	0	1
Year Total		411769	0	
Jan 2004	17	24180	0	1
Apr 2004	1	1380	0	1
May 2004	7	9630	0	1
Sep 2004	10	19892	0	1
Oct 2004	2	3030	0	1
Nov 2004	2	5808	0	1
Year Total		63920	0	
Pool Total		475,689	0	

Cook Inlet, Alaska



KUSTATAN, UNDEFINED WDSP

Reference List

Alaska Oil and Gas Conservation Commission, 2003, Disposal Injection Order No. 26, Kustatan Field, Kustatan Field No. 1 Well, available on line at:
<http://www.state.ak.us/local/akpages/ADMIN/ogc/orders/dio/dio26.htm>

Alaska Oil and Gas Conservation Commission, 2005, Well and Production Information Database

KUSTATAN FIELD

No Pool

Current Orders

Order No.	AA	Operator	Date	Description	Current	
DIO	26	3	FOREST OIL C	08-Oct-04	Administrative Approval Kustatan Field Well #1.	Y

Cook Inlet Generalized Stratigraphic Column

TERTIARY	PLIOCENE	Sterling Fm.	     					
	MIOCENE	Beluga						
		Tyonek Fm.						
	OLIGOCENE	Hemlock						
		<table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 15%;"></td> </tr> </table>						
	EOCENE	W. Foreland						
Chickaloon Fm.								
CRETACEOUS	UPPER	Matanuska Fm.						
	LOWER	Unnamed Shale						
JURASSIC	UPPER	Naknek Fm.						
		Chinitna Fm.						
	MIDDLE	Tuxedni Gp.						
LOWER	Talkeetna Fm.							

Kustatan
Undefined
Disposal
Pool

**OIL
SOURCE**

KUSTATAN, UNDEFINED WASTE DISPOSAL POOL

