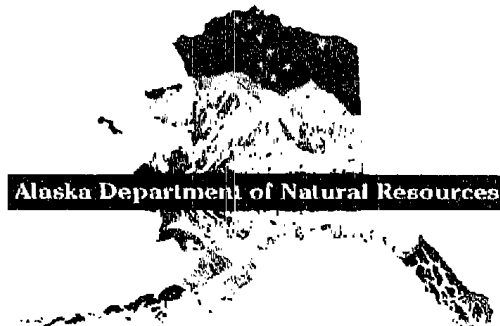


Conventional porosity and permeability data of the following Cook Inlet core samples of the Kenai Group:

Marathon Oil Company Beaver Creek Unit No. 09 (7,992'-7,993'; and 8,085'-8,086'),
ConocoPhillips Alaska Beluga River Unit 212-35 (11,581'-11,599'),
Standard Oil Company of California Deep Creek Unit No. 1 (2,920'-3,000'; 6,100'; and 10,244'),
Mobil Oil Corporation Granite Point No. 1 (8,797'5"-8,799'10"; 9,252'-9,254'; 9,459'-9,475'; 10,866'-10,876'; and 11,246'-11,248.5'),
Halbouty Alaska Oil Halaska King Oil No. 1 (13,368'-13,369'; and 13,435'-13,436'),
Union Oil Company of California Ivan River Unit 44-01 (10,814'-10,817'),
Shell Oil Company MGS/SRS State No. 1 (5,695'-5,697'),
XTO Energy Inc. Middle Ground Shoal A33-11 (8,606'-8,609'),
Shell Western E & P Inc. Middle Ground Shoal A43-11 (7,972'-7,978.2'),
Amoco Production Middle Ground Shoal State 17595 No. 9 (9,614'-9,615'; and 9,608'-9,609'),
Phillips Petroleum Company North Cook Inlet A-02 (4,465'; 4,580'; 4,815'; and 5,013'),
Phillips Petroleum Company North Cook Inlet Unit A-12 (Cherryville A-15) (11,142'),
Union Oil Company of California Soldotna Creek Unit 312-09 (originally Soldotna Creek Unit 12-9) (10,252'-10,262'),
Chevron USA Inc. Swanson River Unit 32-22 (10,991'-10,997'),
ARCO Alaska Inc. Swanson River Unit 34-10 (originally Swanson River Unit 1) (7,782'; 8,755'; 9,230'; and 10,816'),
Union Oil Company of California Swanson River Unit 331-27 (originally Swanson River Unit 2) (4,185'; 4,363'; and 10,875'),
Union Oil Company of California Trading Bay State A-02 (5,990'-5,991'; and 6,374'-6,375'),
Union Oil Company of California Trading Bay State A-04 (2,346'-2,347'; and 3,105'),
Union Oil Company of California Trading Bay State A-07 (3,850'-3,851'; 4,861'; and 6,382'),
Union Oil Company of California Trading Bay Unit D-02 (Dolly Varden D-2) (11,722.1'; and 12,199'),
Union Oil Company of California Trading Bay Unit D-43 RD (10566-10795)
Union Oil Company of California Trading Bay Unit G-04 (Grayling G-4) (9,608'; and 10,104'),
BP Alaska Wasilla State No. 1 (2,920'-3,000'; 3,000'-3,010'; 4,140'-4,150'; and 4,848'), and
Pan American West Foreland Unit No. 1 (6,220'-6,230').



Received 10 February 2004.

Total of 4 pages in report.

Subject: Cook Inlet core porosity & permeability

Date: Tue, 10 Feb 2004 08:58:38 -0900

From: Rocky Reifenhohl <rocky_reifenhohl@dnr.state.ak.us>

Organization: Alaska Geological Survey

To: David Ogbe <ffdoo@uaf.edu>, Shirish Patil <ffslp@uaf.edu>, "James C. Ferguson" <ffjcf@uaf.edu>

CC: rocky <rocky_reifenhohl@dnr.state.ak.us>, John Reeder <john_reeder@dnr.state.ak.us>

Attached are some Cook Inlet files:


- Porosity and permeability analyses
- Cook Inlet core sample well locations

These files represent the first phase of my component of the Cook Inlet REPSEA grant study.

These files will be incorporated into my final report which will include petrography and reservoir evaluation, and published as an AKDGGGS report.

The sample designations on the Excel spread sheet include in them a number that indicates the sample's depth in the well.

Rocky

	Cook Inlet Cores 51 Final Report Data & Plot .xls	Name: Cook Inlet Cores 51 Final Report Data & Plot .xls
		Type: Microsoft Excel Worksheet (application/vnd.ms-excel)
		Encoding: base64

Alaska Division of Geological
and Geophysical Surveys
State of Alaska
Cook Inlet Wells
Various Locations, Alaska

CL File No.: AUR-23085

Date: January 14, 2004
Analyst(s): JC

Hand corrections/additions by J.W. REEDER

CONVENTIONAL PLUG ANALYSIS - 400 psi NCS

Reference Number	Sample ID	Porosity %	Permeability		pore perm	Grain Density g/cm ³	Description	Footnote	Depth
			Klinkenberg md	Core					
Phillips - 1	N. Cook Inlet Unit A-2	36.2	not suitable		not suitable	2.67	Sd, gry, f to mgr, wl srt, pr cem		4,465'
2 Union	Trading Bay Unit G-4 (Grayling 64)	15.2	not suitable		19.400	2.68	Brec, brn, sd, pbis to fgr pr srt, md cem		9,608'
3 Union	Trading Bay Unit G-4	15.5	19.533	23.657		2.63	Sd, gry, mgr, wl srt, wl cem		10,104'
4 Union	Trading Bay West McArthur Field Unit D-02	4.7	not suitable		0.319	2.62	Sd, gry, c to vfg, calc, pr srt, wl cem		11,722.1'
5 Union	Trading Bay West McArthur Field Unit D-02	11.4	1.418	1.834		2.65	Sd, gry, m to fgr, wl srt, wl cem		12,139'
6 Union	Trading Bay Unit D-43	14.6	not suitable		4.350	2.75	Brec, gry, sd, pbis to fgr pr srt, wl cem		10,795'
7 "	Trading Bay Unit D-43	11.4	not suitable		0.612	2.62	Sd, gry, m to fgr, mod srt, wl cem		10,566'
8 "	Trading Bay Unit A-2	17.1	6.224	8.276		2.62	Sd, gry, c to mgr, wl srt, wl cem		5,990-91'
9 "	Trading Bay Unit A-2	15.3	2.561	3.444		2.62	Sd, gry, m to fgr, wl srt, wl cem		6,374-75'
10 "	Trading Bay Unit A-7	14.7	6.913	8.786		2.63	Sd, gry, m to fgr, wl srt, wl cem		1,6382'
11 "	Trading Bay Unit A-7	19.1	10.981	14.067		2.61	Sd, gry, m to fgr, wl srt, wl cem		4,861'
12 "	Trading Bay Unit A-7	22.5	not suitable		26.000	2.59	Sd, brn, f to vf gr, wl srt, md cem		3,850'-51'
13 "	Trading Bay Unit A-7	9.3	not suitable		0.470	2.57	Brec, gry, pbis to vfg,		3,105'
14 "	Trading Bay Unit A-4	20.5	243.854	267.251		2.51	Sd, brn, m to fgr, wl srt, pr cem		2,346'-47'
15 ARCO AK	Swanson River U-1 (SRU 34-10)	13.4	0.002	0.007		2.68	Siltstn, dk gry		7,782'
16 "	Swanson River U-1 (SRU 34-10)	24.2	120.269	135.565		2.68	Sd, gry, c to mgr,, wl srt, mod cem		9,230'
17 "	Swanson River U-1 (SRU 34-10)	13.2	5.775	7.562		2.66	Sd, gry, c to mgr,, wl srt, mod cem		8,755'
18 "	Swanson River U-1 (SRU 34-10)	14.0	0.566	0.785		2.69	Sd, gry, c to mgr,, wl srt, wl cem		10,816'
19 Union	Swanson River U-2 (SRU 331-27)	11.6	not suitable		1.740	2.62	Sd, gry, vfg, chky, wl srt, wl cem		4,185'
20 "	Swanson River U-2 (SRU 331-27)	16.3	not suitable		4.150	2.55	Sd, gry, m to fgr, wl srt, wl cem		10,875'
21 "	Swanson River U-2 (SRU 331-27)	5.9	0.000	0.002		2.70	Sd, gry, c to fgr, calc, mod srt, wl cem		4,363'
Chevron	Swanson River Unit Soldotna SRU 32-22	7.1	0.000	0.001		2.71	Siltstn, dk gry		10,998-97'
Union	Soldotna Creek Unit 312-9	8.8	0.002	0.006		2.72	Siltstn, dk gry		10,252-62'
Standard Oil	Co. California Deep Creek U1	20.7	not suitable		0.022	2.74	Siltstn, dk gry		3,050'
"	Deep Creek U1	17.5	2.745	3.891		2.67	Sd, gry, m to fgr, wl srt, wl cem		6,100'
"	Deep Creek U1	12.4	1.071	1.514		2.72	Sd, gry, vc to mgr, mod srt, wl cem		10,244'
27 BP Alaska	Wasilla State#1	28.5	not suitable			2.68	Sh, dk gry, with sd mix, m to vfg, sli calc		2,920-3,000'
28 "	Wasilla State#1	27.9	not suitable		1.360	2.71	Sh, dk gry, with sd mix, m to vfg, sli calc		3,000'-10'
29 "	Wasilla State#1	10.9	not suitable		0.959	2.69	Sd, gry, vfg, wl srt, wl cem		4,140'-50'
30 "	Wasilla State#1	4.5	not suitable		19.800	2.67	Sd, gry, c to vfg, mod srt, wl cem		4848'
31 Mobil Oil Corp.	Granite Point#1	3.4	0.000	0.002		2.72	Siltstn, dk gry,		8,797.5'-99.10'
32 "	Granite Point#1	4.0	not suitable		0.009	2.71	Sd, gry, vfg, sh lam, wl srt, wl cem		9,252-9'
33 "	Granite Point#1	4.1	not suitable		0.392	2.68	Sd, gry, vfg, sh lam, wl srt, wl cem		9,459'-75'
34 "	Granite Point#1	7.6	0.990	1.350		2.68	Sd, gry, mgr, wl srt, wl cem		10,866-76'
35 "	Granite Point#1	1.8	not suitable		0.264	2.60	Sd, gry, m to fgr, sh lam, wl srt, wl cem		11,276'-48.5'
36 XTO Energy	Middle Ground Shoal A33-11	8.1	not suitable		not suitable	2.63	Brec, gry, sd, pbis to fgr pr srt, wl cem		8606-3'
Shell Western	Middle Ground Shoal A33-11 A43-11	3.8	0.244	0.357		2.69	Sd, gry, c to mgr, wl srt, wl cem		7,972'-78.2'
38 Amoco Prod.	MGS State #17575 No. 09	15.3	not suitable		0.979	2.73	Sd, gry, f gr, wl srt, wl cem		9614'-15'
39 Shell Oil	MGS State #1 MGS/SRS State	11.4 No. 1	0.178	0.270		2.66	Sd, gry, vfg, wl srt, wl cem		5,695'-97'
40 Union Oil	Ivan River #1	8.6	0.003	0.010		2.73	Siltstn, dk gry		10,814'-11'
Conoco Phillips	41 Alaska Beluga River Unit 212-35	4.4	0.001	0.003		2.71	Sd, dk gry, vfg, sli calc, wl srt, wl cem		11,581'-99'

Alaska Division of Geological
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Cook Inlet Wells
Various Locations, Alaska

CL File No.: AUR-23085

Date: January 14, 2004
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CONVENTIONAL PLUG ANALYSIS - 400 psi NCS

Reference Number	Sample ID Number	Porosity %	Permeability		probe perm	Grain Density g/cm ³	Description	Footnote
			Klinkenberg md	Karr md				
Marathon	42 Beaver Creek BCU #9; State Set 924 Unit No. 9	11.1	not suitable		0.027	2.68	Siltstn, dk gry	
"	43 Beaver Creek BCU #9; State Set 924 Unit No. 9	15.1	3.195	3.730		2.72	Siltstn, dk gry	
Phillips	44 North N. Cook Inlet A-2	38.4	not suitable		0.059	2.72	Sd, gry, vfgr, chky	
"	45 Pan American West Foreland U#1	33.2	not suitable		not suitable	2.47	Siltstn, dk gry to blk,	
about AFD	46 Halasko King A-1 Oil No. 1	18.0	not suitable		3.520	2.63	Sd, gry, c to mgr, wl srt, mod cem	
"	47 Halasko King A-2 Oil No. 1	9.8	not suitable		0.019	2.73	Sd, gry, vfgr, wl srt, wl cem	
Phillips	48 North N. Cook Inlet A-2	26.0	0.048	0.087		2.67	Sd, gry, vfgr, chky	
Phillips	49 North Cook Inlet (Cherryville A-15) Unit A-12	35.6	not suitable			2.63	Sd, gry, fgr, wl srt, mod cem	
Phillips	50 North N. Cook Inlet A-2	15.1	11.420	14.580		2.64	Sd, gry, c to mgr, wl srt, mod cem	
Amoco Prod	51 Middle Ground Shoal State 17595 # 9	7.40	0.281	0.439		2.760	Sd, gry, m to vf gr, wl srt, wl cem	

Depth
8,085'-86'
7,992'-3'
4,815'
6,220'-30'
13,368'-69'
13,435'-36'
5,013'
11,142'
4,580'
9,608'-09'

Alaska GMC Data Report No. 312

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Locations of Cook Inlet Well Samples (50)

