

ALASKA LEGISLATURE COMMITTEE FILES 1987-1988 8672

4898 HRES ELF OIL & GAS MISC.

470

FEBRUARY 1988

ALASKA PRODUCTION SUMMARY BY FIELD AND POOL FOR 1987

FIELD AND POOL NAME	- OIL PRODUCTION -				- GAS PRODUCTION -					
	OIL (BBL)		CAS. HD. GAS (MCF)		WATER (BBL)		NAT. GAS. LIQ (BBL)		DRY GAS (MCF)	
	ANNUAL	CUM	ANNUAL	CUM	ANNUAL	CUM	ANNUAL	CUM	ANNUAL	CUM
TRADING BAY, M.KENAI UNALLOCATE			3,233				455			
FIELD TOTAL	934,947		991,448	1,091,524	2,329,814		593	307,588	442,983	3,207,872
WEST FORK, UNDEFINED		89,065,100		60,857,961		60,620,717		359,260		1,541,595
FIELD TOTAL										1,541,595
STATE TOTAL	715,954,992		1,517,681,245		274,292,865		16,540,063	186,359,559		3,151,242,315
		7,002,397,134		10,385,822,069		1,057,615,360		30,635,696		

ALASKA ENHANCED RECOVERY AND DISPOSAL PROJECTS SUMMARY BY FIELD AND POOL FOR 1987

- 12 -

FIELD AND POOL NAME	OIL (BBL)		WATER (BBL)		GAS (MCF)		DISPOSAL PROJECTS - FLUIDS (BBL)	
	ANNUAL	CUM	ANNUAL	CUM	ANNUAL	CUM	ANNUAL	CUM
BEAVER CREEK, UNDEFINED								37,334
BEAVER CREEK, UNDEFINED								37,334
FIELD TOTAL					547,457			37,334
BELUGA RIVER, UNDEFINED								37,334
FIELD TOTAL					547,457			6,141
ENDICOTT, UNDEFINED								6,141
FIELD TOTAL								6,141
ENDICOTT, UNDEFINED								278,714
ENDICOTT, ENDICOTT	14,269				5,615,130			322,691
FIELD TOTAL	21,036*			1	5,615,130			278,714
GRANITE POINT, MIDDLE KENAI	14,269				5,615,130			322,691
FIELD TOTAL	21,036			1	5,615,130			
KENAI, UNDEFINED			4,097,553					129,516
FIELD TOTAL			129,337,612					210,696
KENAI, UNDEFINED			4,097,553					79,191
FIELD TOTAL			129,337,612					79,191
KENAI, STERLING 4								208,707
FIELD TOTAL								289,887
KUPARUK RIVER, CRETACIOUS UNDEF								360,595
FIELD TOTAL								2,494,817
KUPARUK RIVER, KUPARUK RIVER			177,668,828		89,190,562			
FIELD TOTAL			370,269,607		369,578,116			360,595
MCARTHUR RIVER, HEMLOCK			177,668,828		89,190,562			2,494,817
FIELD TOTAL			370,269,607		369,578,116			
MCARTHUR RIVER, MIDDLE KENAI G			28,269,782					
FIELD TOTAL			856,803,607					
MCARTHUR RIVER, WEST FORELAND			1,593,104					
FIELD TOTAL			31,220,482					
MIDDLE GROUND SHOAL, UNDEFINED			9,470					
FIELD TOTAL			29,872,356					
MIDDLE GROUND SHOAL, A			888,033,559					
FIELD TOTAL			150,390					
MIDDLE GROUND SHOAL, B C AND D			5,645,549					
FIELD TOTAL			670,614					
MIDDLE GROUND SHOAL, E F AND G			26,123,728					
FIELD TOTAL			5,069,236					
MILNE POINT, KUPARUK RIVER			226,182,695					
FIELD TOTAL			5,739,850					
MILNE POINT, KUPARUK RIVER			258,102,362					
FIELD TOTAL			76,803					
MILNE POINT, KUPARUK RIVER			6,498,464		196,531			
FIELD TOTAL			76,803		196,531			
MILNE POINT, KUPARUK RIVER			6,498,464		196,531			
FIELD TOTAL			6,498,464		196,531			

FEBRUARY 1988

FEBRUARY 1988

ALASKA ENHANCED RECOVERY AND DISPOSAL PROJECTS SUMMARY BY FIELD AND POOL FOR 1987

FIELD AND POOL NAME	OIL (BBL)		WATER (BBL)		GAS (MCF)		DISPOSAL PROJECTS - FLUIDS (BBL)	
	ANNUAL	CUM	ANNUAL	CUM	ANNUAL	CUM	ANNUAL	CUM
PRUDHOE BAY, UNDEFINED							22,545,082	124,500,796
PRUDHOE BAY, LISBURNE			337,626	337,626	56,741,269	56,741,269		
PRUDHOE BAY, PRUDHOE			488,253,247	1,505,896,682	1,097,171,064	6,962,065,416		
FIELD TOTAL	13,012,875		488,590,873	1,506,234,308	1,153,912,333	7,018,806,685	22,545,082	124,500,796
SWANSON R VER, UNDEFINED			13,012,875*				1,744,452	1,744,452
SWANSON RIVER, HEMLOCK					85,688,349	2,014,875,361		
FIELD TOTAL				8,337,995	85,688,349	2,014,875,361	1,744,452	1,744,452
TRADING BAY, HEMLOCK				8,337,995				
TRADING BAY, MIDDLE KENAI C				343,518				
TRADING BAY, MIDDLE KENAI D				26,762,433				
TRADING BAY, G-NE/HEMLOCK-NE				60,389,470				
FIELD TOTAL				33,518,440				
STATE TOTAL	14,269		13,033,911*	121,013,861	706,046,263	1,334,406,374	25,181,025	129,396,118
				3,287,827,769		9,409,619,280		

*FLUIDS RETURNED TO RESERVOIR, NOT ENHANCED RECOVERY

ALASKA PRODUCTION SUMMARY BY ACTIVE POOLS FOR DECEMBER, 1987

OIL FIELDS	CRUDE OIL (BBL)	WATER (BBL)	GAS (MCF)	PROD. WELLS	CUM CRUDE OIL (BBL)	CUM WATER (BBL)	CUM GAS (MCF)
BEAVER CREEK FIELD							
UNDEFINED POOL	20,659	570	5,682	2	3,520,778	18,993	1,429,485
FIELD TOTAL	20,659	570	5,682	2	3,520,778	18,993	1,429,485
ENDICOTT FIELD							
ENDICOTT POOL	3,448,733	136,440	3,133,353	25	8,806,770	171,563	8,433,197
FIELD TOTAL	3,448,733	136,440	3,183,353	25	8,806,770	171,563	8,433,197
GRANITE POINT FIELD							
MIDDLE KENAI POOL	218,540	87,831	195,606	29	106,837,864	7,582,441	92,287,953
FIELD TOTAL	218,540	87,831	195,606	29	106,840,628	7,582,441	92,289,543
KUPARUK RIVER FIELD							
CRETACIOUS UNDEF ZONE		595,441		7		54,479,207	
KUPARUK RIVER POOL	8,905,459	3,154,414	11,671,512	329	394,823,160	44,836,855	469,416,611
FIELD TOTAL	8,905,459	3,749,855	11,671,512	336	394,826,525	99,316,062	469,421,591
MCARTHUR RIVER FIELD							
HEMLOCK POOL	496,601	2,048,620	249,412	58	466,557,522	220,376,943	170,778,715
MIDDLE KENAI G POOL	70,741	50,527	33,765	11	36,016,884	4,242,776	17,939,702
WEST FORELAND POOL	17,130	34,028	8,571	4	19,114,960	4,993,278	5,450,344
FIELD TOTAL	584,472	2,133,175	291,748	73	521,689,366	229,612,997	194,168,761
MIDDLE GROUND SHOAL FIELD							
A POOL	4,229	1,520	4,261	1	1,999,651	1,115,640	4,357,185
B C AND D POOL	16,011	20,548	10,623	4	10,397,981	3,613,537	7,227,175
E F AND G POOL	218,372	270,738	94,472	36	140,704,317	67,458,562	65,146,863
FIELD TOTAL	238,612	292,806	109,356	41	153,101,949	72,187,739	76,731,223
PRUDHOE BAY FIELD							
LISBURNE POOL	1,447,722	223,087	6,860,023	47	21,461,376	1,783,496	76,362,009
PRUDHOE POOL	48,190,641*	17,902,061	120,905,424	675	5,490,169,510**	510,267,884	7,651,943,702
FIELD TOTAL	49,638,363*	18,125,148	127,765,447	722	5,511,630,886**	513,163,726	7,728,305,791
SWANSON RIVER FIELD							
HEMLOCK POOL	189,331	249,181	7,902,431	29	207,255,715	67,437,690	1,751,952,218
FIELD TOTAL	189,331	249,181	7,902,431	29	207,306,954	67,441,860	1,752,276,106
TRADING BAY FIELD							
HEMLOCK POOL	14,594	8,453	21,387	6	10,672,341	2,775,922	10,488,713
UNDEFINED POOL	3,107	1,598	7,097	1	563,033	100,167	300,090
MIDDLE KENAI B POOL	15,760	2,890	14,754	8	2,068,868	203,682	2,190,324
MIDDLE KENAI C POOL	10,556	23,673	32,900	5	18,533,950	16,781,567	12,153,993
MIDDLE KENAI D POOL	10,141	19,771	13,054	6	26,743,058	13,233,698	21,789,375
MIDDLE KENAI E POOL	5,172	9,783	5,830	4	7,485,282	2,829,900	6,367,930
G-NE/HEMLOCK-NE POOL	18,693	137,366	7,404	6	22,969,176	24,686,170	6,456,699
W FORELAND POOL	802		140	1	29,392	9,611	19,213
M. KENAI UNALLOCATED ZONE			151	1			1,091,624
FIELD TOTAL	78,825	202,934	102,717	38	89,065,100	60,620,717	60,857,961
TOTAL ACTIVE FIELDS	63,322,994	24,977,940	151,227,852	1,295	6,996,788,956	1,050,115,898	10,383,913,658
DAILY AVERAGE	2,042,677	805,740	4,878,317	INACTIVE	5,608,178	6,611,768	1,908,411
ALL FIELDS					7,002,397,134	1,056,727,666	10,385,822,069

* INCLUDES 2,545,772 BBLS OF CONDENSATE

** INCLUDES 109,145,756 BBLS OF CONDENSATE

FEBRUARY 1988

FEBRUARY 1988

ALASKA PRODUCTION SUMMARY BY ACTIVE POOLS FOR DECEMBER, 1987

<u>NGL PRODUCTION</u>	<u>NGL (BBL)</u>	<u>CUM NGL (BBL)</u>
KUPARUK RIVER		
KUPARUK RIVER	112,388	3,089,934
FIELD TOTAL	112,388	3,089,934
MCARTHUR RIVER		
HEMLOCK	11,922	7,849,453
MIDDLE KENAI G	3,363	766,417
WEST FORELAND	874	200,954
FIELD TOTAL	16,139	8,816,824
PRUDHOE BAY		
LISBURNE	68,381	457,849
PRUDHOE	1,675,474	16,715,714
FIELD TOTAL	1,743,855	17,173,563
SWANSON RIVER		
HEMLOCK	3,434	1,184,238
FIELD TOTAL	3,434	1,184,238
TRADING BAY		
HEMLOCK	9	51,672
M. KENAI UNALLOCATED	29	307,588
FIELD TOTAL	38	359,260
TOTAL ACT'VE FIELDS	<u>1,875,854</u>	<u>30,623,819</u>
DAILY AVERAGE	60,511	
		INACTIVE
		<u>0</u>
		ALL FIELDS
		<u>30,623,819</u>

ALASKA PRODUCTION SUMMARY BY ACTIVE POOLS FOR DECEMBER, 1987

GAS FIELDS	CONDEN. (BBL)	WATER (BBL)	GAS (MCF)	PROD. WELLS	CUM CONDEN. (BBL)	CUM WATER (BBL)	CUM GAS (MCF)
BEAVER CREEK FIELD							
UNDEFINED POOL		9,409	1,235,846	4		298,051	62,925,906
FIELD TOTAL		9,409	1,235,846	4		298,051	62,925,906
BELUGA RIVER FIELD							
UNDEFINED POOL			2,310,665	14		810	253,191,671
FIELD TOTAL			2,310,665	14		810	253,191,671
EAST BARROW FIELD							
UNDEFINED POOL		47	68,806	4		1,115	3,947,529
FIELD TOTAL		47	68,806	4		1,115	3,947,529
KENAI FIELD							
STERLING 3 POOL		14	1,659,074	9		110,443	262,981,820
STERLING 4 POOL		191	1,789,993	11		85,449	367,178,726
STERLING 5.1 POOL		51	1,686,976	10		137,833	429,265,359
STERLING 6 POOL		96	2,005,443	11		12,789	397,336,068
UNDEFINED POOL		484	903,680	7		65,191	120,071,481
TYONEK POOL		324	499,407	4	11,877	32,695	209,757,749
FIELD TOTAL		1,160	8,544,573	52	11,877	487,100	1,830,622,838
LEWIS RIVER FIELD							
UNDEFINED POOL			3,846	1		108	4,022,052
FIELD TOTAL			3,846	1		108	4,022,052
MCARTHUR RIVER FIELD							
MIDDLE KENAI POOL			821,730	7			97,240,537
FIELD TOTAL			821,730	7			133,552,820
MIDDLE GROUND SHOAL FIELD							
UNDEFINED POOL			16,158	1			2,060,480
FIELD TOTAL			16,158	1			2,163,844
NORTH COOK INLET FIELD							
TERTIARY POOL		2,093	3,594,280	12		100,074	820,297,556
FIELD TOTAL		2,093	3,594,280	12		100,074	820,297,556
PRETTY CREEK FIELD							
UNDEFINED POOL		7	73,559	1		125	842,437
FIELD TOTAL		7	73,559	1		125	842,437
SOUTH BARROW FIELD							
UNDEFINED POOL		3	56,987	5		311	17,823,710
FIELD TOTAL		3	56,987	5		311	17,823,710
SWANSON RIVER FIELD							
UNDEFINED POOL			80,833	1			12,659,553
FIELD TOTAL			80,833	1			12,659,553
TRADING BAY FIELD							
UNDEFINED POOL			29,376	1			3,207,872
FIELD TOTAL			29,376	1			3,207,872
TOTAL ACTIVE FIELDS		12,719	16,836,659	103	11,877	887,694	3,145,257,788
DAILY AVERAGE		410	543,118	INACTIVE	0	0	5,984,527
				ALL FIELDS	11,877	887,694	3,151,242,315

FEBRUARY 1988

- 16 -

FEBRUARY 1988

ALASKA ENHANCED RECOVERY AND DISPOSAL PROJECTS FOR DECEMBER, 1987

ENHANCED RECOVERY	OIL (BBL)	WATER (BBL)	GAS (MCF)	INJ. WELLS	CUM OIL (BBL)	CUM WATER (BBL)	CUM GAS (MCF)
ENDICOTT FIELD							
ENDICOTT POOL			2,604,268	2	21,036	1	5,615,130
FIELD TOTAL			2,604,268	2	21,036*	1	5,615,130
GRANITE POINT FIELD							
MIDDLE KENAI POOL		329,013		12		129,337,612	
FIELD TOTAL		329,013		12		129,337,612	
KUPARUK RIVER FIELD							
KUPARUK RIVER POOL		21,114,202	8,401,557	208		370,269,607	369,578,116
FIELD TOTAL		21,114,202	8,401,557	208		370,269,607	369,578,116
MCARTHUR RIVER FIELD							
HEMLOCK POOL		2,318,603		16		856,803,607	
MIDDLE KENAI G POOL		116,002		4		31,220,482	
WEST FORELAND POOL		9,470		1		9,470	
FIELD TOTAL		2,444,075		21		888,033,559	
MIDDLE GROUND SHOAL FIELD							
B C AND D POOL		57,152		2		26,123,728	
E F AND G POOL		390,546		15		226,182,695	
FIELD TOTAL		447,698		17		258,102,362	
PRUDHOE BAY FIELD							
LISBURNE POOL			6,551,831	3		337,626	56,741,269
PRUDHOE POOL	35,193,412		108,227,590	133	13,012,875	1,505,896,682	6,962,065,416
FIELD TOTAL	35,193,412		114,779,421	136	13,012,875*	1,506,234,308	7,018,806,685
SWANSON RIVER FIELD							
HEMLOCK POOL			7,726,429	7		8,337,995	2,014,875,361
FIELD TOTAL			7,726,429	7		8,337,995	2,014,875,361
TOTAL ACTIVE FIELDS	59,528,400		133,511,675	403	13,033,911*	3,160,315,444	9,408,875,292
DAILY AVERAGE	1,920,270		4,306,828	INACTIVE	0	127,512,325	743,988
				ALL FIELDS	13,033,911*	3,287,827,769	9,409,619,280
<u>DISPOSAL PROJECTS</u>		<u>FLUIDS (BBL)</u>		<u>DISP. WELLS</u>		<u>CUM FLUIDS (BBL)</u>	
ENDICOTT FIELD							
UNDEFINED ZONE		127,197		2		322,691	
FIELD TOTAL		127,197		2		322,691	
KENAI FIELD							
UNDEFINED ZONE		2,009		1		210,696	
STERLING 4 POOL		11,917		1		79,191	
FIELD TOTAL		13,926		2		289,887	
KUPARUK RIVER FIELD							
CRETACIOUS UNDEF ZONE		21,397		2		2,494,817	
FIELD TOTAL		21,397		2		2,494,817	
PRUDHOE BAY FIELD							
UNDEFINED ZONE		2,044,516		9		124,500,796	
FIELD TOTAL		2,044,516		9		124,500,796	
SWANSON RIVER FIELD							
UNDEFINED ZONE		200,752		4		1,744,452	
FIELD TOTAL		200,752		4		1,744,452	
TOTAL ACTIVE FIELDS		2,407,788		19		129,352,643	
DAILY AVERAGE		77,670		INACTIVE		43,475	
				ALL FIELDS		129,396,118	

*FLUIDS RETURNED TO RESERVOIR, NOT ENHANCED RECOVERY

STATE OF ALASKA
ALASKA OIL AND GAS CONSERVATION COMMISSION
3001 PORCUPINE DR ANCHORAGE, AK. 99501-3192

BULK RATE
U.S. POSTAGE
PAID
ANCHORAGE, AK
PERMIT NO. 356

STATE OF ALASKA

ALASKA OIL AND GAS CONSERVATION
COMMISSION

3001 PORCUPINE DRIVE

ANCHORAGE, ALASKA 99501

Steve Cowper, Governor

C V Chatterton, Commissioner
Chairman of Commission

Lonnie C Smith, Commissioner

William W Barnwell, Commissioner

BULLETIN

MARCH 1988

ADMINISTRATIVE APPROVAL NO. 213.13

Administrative Approval No. 213.13 was issued on February 4, 1988, to ARCO Alaska, Inc. waiving the requirement of Rule 11a of Conservation Order No. 165 for Prudhoe Bay Unit well DS 11-26. Rule 11a required that a spinner flow meter or a trace survey be run during the first six months that the well is on production. Since this well is producing from a single interval, a productivity profile need not be filed until additional zones are perforated.

ADMINISTRATIVE APPROVAL NO. 120.32

Administrative Approval No. 120.32 was issued on February 4, 1988 to Marathon Oil Company permitting 10 additional excess flare days during the first calendar quarter of 1988, on the Dolly Varden platform in the McArthur River Field. This will allow up to 25 days of flaring for operational necessities during the 1st quarter; the excess flared gas will be metered, and is subject to the Oil and Gas Properties Production Tax.

Administrative Approval AIO No. 10.2

Administrative Approval AIO No. 10.2 was issued on February 10, 1988, to Conoco, Inc. amending Rule 2 of Area Injection Order (AIO) No. 10, to allow for the pumping of excess nonhazardous fluids that are developed solely from well operations, or necessary to control the fluid level of reserve pits, into surface/production casing annuli. Aquifer Exemption Order No. 2 has exempted all aquifers lying beneath the Milne Point Unit for Class II injection activities, and was issued after approval of AIO No. 10, thus prompting the amendment.

Administrative Approval No. 120.33

Administrative Approval 120.33 was issued on February 18, 1988 to Marathon Oil Company permitting 10 additional excess flare days during the first calendar quarter of 1988, on the Dolly Varden platform in the McArthur River Field. This will allow up to 35 days of flaring for operational necessities during the 1st quarter while Marathon continues its efforts to alleviate the cause of the excess flaring. All excess gas flared shall be metered, and is subject to the Oil and Gas Properties Production Tax.

Administrative Approval No. 114.5

Administrative Approval No. 114.5 was issued on February 26, 1988 to Union Oil Company of California, operator of the McArthur River Field, amending item 9 of Conservation Order No. 114. This will allow a daily average volume of 2500 MCF per day (of produced gas) per calendar month to maintain a safety flare on Dolly Varden platform in the McArthur River Field. The increase of 1500 MCF per day was granted to allow Marathon Oil Company to identify and alleviate the problem. The amendment is subject to change upon periodic review of the situation on the Dolly Varden platform.

Administrative Approval No. 145-A.29

Administrative Approval 145-A.29 was issued on February 26, 1988 to ARCO Alaska, Inc. permitting an additional 5 MMSCF of gas to be flared at the Central Compressor Plant Prudhoe Bay Field. The additional flare volume was granted so that repairs might be made on the compressor fuel inlet header. The excess flared gas will be metered, and is subject to the Oil and Gas Properties Production Tax.

ALASKA DRILLING STATISTICS FOR FEBRUARY, 1988

MARCH 1988

* DRILLING PERMITS APPROVED * * * * *

API NUMBER PERMIT NUMBER PERMIT APPROVED	OPERATOR NAME SURFACE LOCATION BOTTOM HOLE OBJECTIVE	WELL NAME AND NUMBER	CLASSIFICATION GEOLOGIC AREA FIELD AND POOL
50-133-20151-01 88-0001 02/19/88	UNION OIL CO OF CALIFORNIA 1625FT FSL AND 562FT FEL, SEC 04, T09N, R013W, SM. 670FT FSL AND 4121FT FEL, SEC 04, T09N, R013W, SM.	THADING BAY ST A-19RD	SERVICE COOK INLET BASIN TRADING BAY, MIDDLE KENAI D OIL POOL
50-029-21782-00 88-0012 02/02/88	ARCO ALASKA INC 452FT FNL AND 327FT FEL, SEC 33, T11N, R014E, UM. 329FT FSL AND 107FT FEL, SEC 21, T11N, R014E, UM.	PRUDHOE BAY UNIT DS7-29	DEVELOPMENT ARCTIC SLOPE PRUDHOE BAY, PRUDHOE OIL POOL
50-029-21783-00 88-0013 02/02/88	ARCO ALASKA INC 1306FT FNL AND 1644FT FEL, SEC 01, T11N, R014E, UM. 2274FT FSL AND 633FT FEL, SEC 05, T11N, R015E, UM.	PRUDHOE BAY UNIT LG1-4	DEVELOPMENT ARCTIC SLOPE PRUDHOE BAY, LISBURNE OIL POOL
50-029-21784-00 88-0014 02/29/88	STANDARD ALASKA PRODUCTION CO 1426FT FNL AND 1454FT FEL, SEC 21, T11N, R012E, UM. 3824FT FNL AND 1979FT FEL, SEC 21, T11N, R012E, UM.	PRUDHOE BAY UNIT W-39	DEVELOPMENT ARCTIC SLOPE PRUDHOE BAY, PRUDHOE OIL POOL
50-029-21785-00 88-0015 02/09/88	STANDARD ALASKA PRODUCTION CO 1565FT FNL AND 882FT FEL, SEC 19, T11N, R014E, UM. 498FT FNL AND 4265FT FEL, SEC 20, T11N, R014E, UM.	PRUDHOE BAY UNIT C-34	DEVELOPMENT ARCTIC SLOPE PRUDHOE BAY, PRUDHOE OIL POOL

* RELEASABLE INFORMATION ON RECENTLY COMPLETED WELLS * * * * *

API NUMBER PERMIT NUMBER COMPLETION DATE	OPERATOR NAME SURFACE LOCATION BOTTOM HOLE LOCATION	WELL NAME AND NUMBER	CLASSIFICATION AND STATUS GEOLOGIC AREA FIELD AND POOL	TOTAL DEPTH T.V. DEPTH
50-029-21742-00 87-0069 10/13/87	ARCO ALASKA INC 1463FT FSL AND 166FT FEL, SEC 02, T11N, R015E, UM. 1485FT FNL AND 2038FT FEL, SEC 10, T11N, R015E, UM.	PRUDHOE BAY UNIT L5-5	DEVELOPMENT, 1-OIL ARCTIC SLOPE PRUDHOE BAY, PRUDHOE OIL POOL	12,963FT 5,277FT
50-029-21748-00 87-0090 12/11/87	STANDARD ALASKA PRODUCTION CO 2104FT FNL AND 2142FT FEL, SEC 36, T12N, R016E, UM. 497FT FNL AND 2228FT FEL, SEC 06, T11N, R017E, UM.	DUCK IS UNIT MPI 1-37/P24	DEVELOPMENT, 1-OIL ARCTIC SLOPE ENDICOTT, ENDICOTT OIL POOL	13,150FT 10,639FT

ALASKA DRILLING STATISTICS FOR FEBRUARY, 1988

* RELEASABLE INFORMATION ON RECENTLY COMPLETED WELLS * * * * *

API NUMBER PERMIT NUMBER COMPLETION DATE	OPERATOR NAME SURFACE LOCATION BOTTOM HOLE LOCATION	WELL NAME AND NUMBER	CLASSIFICATION AND STATUS GEOLOGIC AREA FIELD AND POOL	TOTAL DEPTH T.V. DEPTH
50-029-21719-00 87-0039 12/12/87	ARCO ALASKA INC 996FT FNL AND 1617FT FEL, SEC 25, T13N, R008E, UM. 905FT FNL AND 691FT FWL, SEC 26, T13N, R008E, UM.	KUPARUK RIV UNIT 3M-12	DEVELOPMENT, 1-OIL ARCTIC SLOPE KUPARUK RIVER, KUPARUK RIVER OIL POOL	10,940FT 6,509FT
50-029-21739-00 87-0056 12/15/87	ARCO ALASKA INC 1320FT FNL AND 1750FT FEL, SEC 25, T13N, R008E, UM. 1343FT FNL AND 2627FT FEL, SEC 35, T13N, R008E, UM.	KUPARUK RIV UNIT 3M-21	DEVELOPMENT, 1-OIL ARCTIC SLOPE KUPARUK RIVER, KUPARUK RIVER OIL POOL	10,826FT 6,483FT
50-029-21740-00 87-0067 12/15/87	ARCO ALASKA INC 1343FT FNL AND 1760FT FEL, SEC 25, T13N, R008E, UM. 1657FT FNL AND 511FT FEL, SEC 35, T13N, R008E, UM.	KUPARUK RIV UNIT 3M-22	DEVELOPMENT, 1-OIL ARCTIC SLOPE KUPARUK RIVER, KUPARUK RIVER OIL POOL	9,730FT 6,444FT
50-029-20056-01 87-0125 01/04/88	STANDARD ALASKA PRODUCTION CO 1800FT FNL AND 1067FT FEL, SEC 23, T11N, R013E, UM. 2432FT FNL AND 3640FT FEL, SEC 13, T11N, R013E, UM.	PRUDHOE BAY UNIT D-4A	DEVELOPMENT, 1-OIL ARCTIC SLOPE PRUDHOE BAY, PRUDHOE OIL POOL	10,800FT 9,228FT
50-103-20086-00 87-0112 01/15/88	ARCO ALASKA INC 1347FT FNL AND 281FT FWL, SEC 12, T12N, R008E, UM. 1431FT FSL AND 1726FT FWL, SEC 12, T12N, R008E, UM.	KUPARUK RIV UNIT 3H-9	DEVELOPMENT, 1-OIL ARCTIC SLOPE KUPARUK RIVER, KUPARUK RIVER OIL POOL	7,310FT 6,382FT

MARCH 1988

OUTSTANDING DRILLING PERMITS FOR ALASKA AS OF 03/02/88
WELL NAME AND NUMBER API NUMBER

OPERATOR NAME	WELL NAME AND NUMBER	API NUMBER	PERMIT	APPROVED
GULF OF AK BASIN ALASKAN CRUDE CORP	KATALLA	KS-1	50-069-20002-00	85-0124 07/01/85
COOK INLET BASIN				
ALASKAN CRUDE CORP	BURGLIN	31-1	50-133-20390-00	87-0070 07/31/87
ALASKAN CRUDE CORP	BURGLIN	BRX 22-1	50-283-20082-00	87-0084 08/24/87
AMOCO PRODUCTION CO	GRANITE POINT 18742	32RD	50-733-20298-01	87-0063 06/29/87
AMOCO PRODUCTION CO	GRANITE PT ST 18742	37	50-733-20394-00	87-0109 10/26/87
SHELL WESTERN E&P INC	MGS	A-23-1RD	50-733-20238-01	87-0093 09/16/87
SHELL WESTERN E&P INC	MGS	C24A-14	50-733-20395-00	87-0126 12/14/87
UNION OIL CO OF CALIFORNIA	TRADING BAY ST	A-19RD	50-133-20151-01	88-0001 02/19/88
UNION OIL CO OF CALIFORNIA	CANNERY LOOP UNIT	4	50-133-20387-00	87-0034 04/28/87
UNION OIL CO OF CALIFORNIA	TRADING BAY UNIT	G-36DPN	50-733-20216-00	87-0049 05/28/87
UNION OIL CO OF CALIFORNIA	TRADING BAY UNIT	M-25	50-733-20391-00	87-0086 08/26/87
UNION OIL CO OF CALIFORNIA	TRADING BAY UNIT	M-3	50-733-20392-00	87-0089 09/03/87
UNION OIL CO OF CALIFORNIA	TRADING BAY UNIT	M-26	50-733-20393-00	87-0106 11/04/87
UNION OIL CO OF CALIFORNIA	CANNERY LOOP UNIT	5	50-733-20396-00	87-0127 12/23/87
ARCTIC SLOPE				
ALASKAN CRUDE CORP	ACC	F-2	50-029-21315-00	85-0053 04/10/85
ALASKAN CRUDE CORP	ACC	F-3	50-029-21316-00	85-0054 04/10/85
AMERADA HESS CORP	NORTHSTAR	3	50-629-21747-00	87-0088 08/31/87
ARCO ALASKA INC	W BEACH ST	1-A	50-029-20138-01	86-0056 03/06/86
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS18-11D	50-029-21181-00	87-0087 08/24/87
ARCO ALASKA INC	KUPARUK RIV UNIT	31-10	50-029-21563-00	86-0058 03/10/86
ARCO ALASKA INC	KUPARUK RIV UNIT	31-11	50-029-21564-00	86-0059 03/13/86
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS1-27	50-029-21591-00	86-0088 05/02/86
ARCO ALASKA INC	KUPARUK RIV UNIT	3K-14	50-029-21631-00	86-0137 07/15/86
ARCO ALASKA INC	PRUDHOE BAY UNIT	LG1-16	50-029-21643-00	86-0153 08/15/86
ARCO ALASKA INC	PRUDHOE BAY UNIT	L3-24	50-029-21670-00	86-0182 11/19/86
ARCO ALASKA INC	PRUDHOE BAY UNIT	L3-30	50-029-21673-00	86-0185 12/04/86
ARCO ALASKA INC	KUPARUK RIV UNIT	3Q-1	50-029-21687-00	87-0003 01/21/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3Q-3	50-029-21689-00	87-0005 01/21/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3Q-4	50-029-21690-00	87-0006 01/21/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS11-28	50-029-21691-00	87-0007 01/28/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3M-12	50-029-21719-00	87-0050 05/22/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS7-27	50-029-21744-00	87-0082 07/31/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS18-16	50-029-21749-00	87-0091 09/04/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS18-13	50-029-21756-00	87-0100 09/25/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	L2-8	50-029-21761-00	87-0108 10/23/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	L2-18	50-029-21766-00	87-0118 11/20/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS18-17	50-029-21768-00	87-0120 11/30/87
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS7-28	50-029-21770-00	88-0003 01/14/88
ARCO ALASKA INC	PRUDHOE BAY UNIT	L2-32	50-029-21778-00	87-0137 12/24/87
ARCO ALASKA INC	PT. MCINTYRE	3	50-029-21779-00	88-0005 01/15/88
ARCO ALASKA INC	PRUDHOE BAY UNIT	DS7-29	50-029-21782-00	88-0012 02/02/88
ARCO ALASKA INC	PRUDHOE BAY UNIT	LG1-4	50-029-21783-00	88-0013 02/02/88
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-4	50-103-20076-00	87-0076 07/31/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-5	50-103-20077-00	87-0077 07/31/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-6	50-103-20078-00	87-0078 07/31/87

MARCH 1988

OUTSTANDING DRILLING PERMITS FOR ALASKA AS OF 03/02/88

OPERATOR NAME	WELL NAME AND NUMBER	API NUMBER	PERMIT	APPROVED	
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-7	50-103-20079-00	87-0079	07/31/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-8	50-103-20080-00	87-0080	07/31/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-17	50-103-20081-00	87-0099	09/25/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-15	50-103-20082-00	87-0103	10/07/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-2	50-103-20083-00	87-0107	10/21/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-1	50-103-20084-00	87-0110	10/28/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-3	50-103-20085-00	87-0111	10/28/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-10	50-103-20087-00	87-0113	10/28/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-12	50-103-20088-00	87-0129	12/17/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-13	50-103-20089-00	87-0130	12/17/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-19	50-103-20090-00	87-0133	12/23/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-11	50-103-20091-00	87-0124	12/04/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-14	50-103-20092-00	87-0123	12/04/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-20	50-103-20093-00	87-0134	12/23/87
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-21	50-103-20094-00	88-0008	01/29/88
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-18	50-103-20095-00	88-0009	01/29/88
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-16	50-103-20096-00	88-0010	01/29/88
ARCO ALASKA INC	KUPARUK RIV UNIT	3H-22	50-103-20097-00	88-0011	01/29/88
ARCO ALASKA INC	PIPELINE STATE	1	50-223-20016-00	87-0121	12/16/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	M-28	50-029-21578-00	86-0074	04/11/86
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT SDI	3-27/M33	50-029-21586-00	86-0083	05/02/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	Y-23	50-029-21590-00	86-0087	05/02/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	Y-24	50-029-21608-00	86-0113	06/10/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	S-19	50-029-21611-00	86-0116	06/13/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	G-30	50-029-21613-00	86-0118	06/17/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	G-31	50-029-21616-00	86-0121	06/19/86
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT MPI	1-47/Q21	50-029-21625-00	86-0131	07/03/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	F-29	50-029-21627-00	86-0133	07/03/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	G-32	50-029-21636-00	86-0146	07/25/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	S-20	50-029-21637-00	86-0147	07/28/86
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT MPI	2-14/O16	50-029-21639-00	86-0149	08/04/86
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT SDI	4-20/M35	50-029-21640-01	86-0173	10/10/86
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT SDI	3-23/N32	50-029-21645-00	86-0155	08/15/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	F-31	50-029-21647-00	86-0157	08/28/86
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT MPI	2-62/Q17	50-029-21648-00	86-0158	09/03/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	F-28	50-029-21649-00	86-0159	09/02/86
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT MPI	2-34/P14	50-029-21662-00	86-0172	10/09/86
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	J-21	50-029-21705-00	87-0024	03/09/87
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT MPI	2-52/S14	50-029-21750-00	87-0092	09/04/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	K-13	50-029-21757-00	87-0101	09/30/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	K-12	50-029-21759-00	87-0104	10/15/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	E-27	50-029-21760-00	87-0105	10/15/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	K-10	50-029-21762-00	87-0114	11/03/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	E-23	50-029-21763-00	87-0115	11/05/87
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT SDI	3-39/J39	50-029-21764-00	87-0116	11/05/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	K-11	50-029-21765-00	87-0117	11/17/87
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT MPI	2-44/R12	50-029-21767-00	87-0119	11/23/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	E-24	50-029-21769-00	87-0122	12/03/87
STANDARD ALASKA PRODUCTION CO	DUCK IS UNIT MPI	2-08/K16	50-029-21771-00	88-0004	01/15/88
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	GC-1D	50-029-21772-00	87-0128	12/17/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT	E-25	50-029-21773-00	87-0131	12/22/87

MARCH 1988

OUTSTANDING DRILLING PERMITS FOR ALASKA AS OF 03/02/88

OPERATOR NAME	WELL NAME AND NUMBER	API NUMBER	PERMIT	APPROVED
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT GC-2C	50-029-21774-00	87-0132	12/22/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT C-31	50-029-21775-00	88-0006	01/20/88
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT W-40	50-029-21776-00	87-0135	12/22/87
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT C-30	50-029-21777-00	87-0136	12/28/87
STANDARD ALASKA PRODUCTION CO	DUCX IS UNIT SDI J-09/L28	50-029-21780-00	88-0002	01/13/88
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT E-26	50-029-21781-00	88-0007	01/20/88
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT W-39	50-029-21784-00	88-0014	02/29/88
STANDARD ALASKA PRODUCTION CO	PRUDHOE BAY UNIT C-34	50-029-21785-00	88-0015	02/09/88

ALASKA PRODUCTION SUMMARY BY ACTIVE POOLS FOR JANUARY, 1988

OIL FIELDS	CRUDE OIL (BBL)	WATER (BBL)	GAS (MCF)	PROD. WELLS	CUM CRUDE OIL (BBL)	CUM WATER (BBL)	CUM GAS (MCF)
BEAVER CREEK FIELD							
UNDEFINED POOL	14,609	55	4,018	2	3,535,387	19,048	1,433,503
FIELD TOTAL	14,609	55	4,018	2	3,535,387	19,048	1,433,503
ENDICOTT FIELD							
ENDICOTT POOL	3,575,240	173,979	3,323,535	27	12,382,010	345,342	11,756,732
FIELD TOTAL	3,575,240	173,979	3,323,535	27	12,382,010	345,342	11,756,732
GRANITE POINT FIELD							
MIDDLE KENAI POOL	215,149	86,991	198,687	29	107,053,013	7,669,432	92,486,640
FIELD TOTAL	215,149	86,991	198,687	29	107,055,777	7,669,432	92,488,230
KUPARUK RIVER FIELD							
CRETACIOUS UNDEF ZONE		258,770		3		54,737,977	
KUPARUK RIVER POOL	8,867,132	3,389,138	11,595,187	330	403,690,292	48,225,993	481,011,798
FIELD TOTAL	8,867,132	3,647,908	11,595,187	333	403,693,657	102,963,970	481,016,778
MCARTHUR RIVER FIELD							
HEMLOCK POOL	495,742	2,545,347	299,411	58	467,053,264	222,922,290	171,078,026
MIDDLE KENAI G POOL	89,939	59,584	43,875	12	36,106,823	4,302,360	17,983,577
WEST FORELAND POOL	33,982	54,756	12,335	4	19,148,942	5,048,034	5,462,679
FIELD TOTAL	619,663	2,659,687	355,621	74	522,309,029	232,272,684	194,524,282
MIDDLE GROUND SHOAL FIELD							
A POOL	2,297	932	5,527	1	2,001,948	1,116,572	4,362,712
B C AND D POOL	15,918	21,430	10,387	4	10,413,899	3,634,967	7,237,562
E F AND G POOL	213,908	247,249	92,594	36	140,918,225	67,705,811	65,239,457
FIELD TOTAL	232,123	269,611	108,508	41	153,334,072	72,457,350	76,839,731
PRUDHOE BAY FIELD							
LISBURNE POOL	1,377,964	212,859	7,641,307	46	22,814,979	2,013,116	83,937,836
PRUDHOE POOL	46,812,573*	20,674,344	119,210,260	689	5,536,982,083**	530,942,228	7,771,153,962
FIELD TOTAL	48,190,537*	20,887,203	126,851,567	735	5,559,797,062**	534,067,690	7,855,091,798
SWANSON RIVER FIELD							
HEMLOCK POOL	178,011	201,380	8,244,695	32	207,433,726	67,639,070	1,760,196,913
FIELD TOTAL	178,011	201,380	8,244,695	32	207,484,965	67,643,240	1,760,520,801
TRADING BAY FIELD							
HEMLOCK POOL	12,420	6,633	17,438	6	10,684,761	2,782,555	10,506,151
UNDEFINED POOL	2,412	857	3,593	1	565,445	101,024	303,683
MIDDLE KENAI B POOL	15,624	6,019	18,318	8	2,084,492	209,701	2,208,642
MIDDLE KENAI C POOL	11,560	26,786	31,989	5	18,545,510	16,808,353	12,185,982
MIDDLE KENAI D POOL	11,723	19,180	14,600	6	26,754,781	13,252,878	21,803,975
MIDDLE KENAI E POOL	5,772	9,933	5,959	4	7,491,056	2,839,833	6,373,889
G-NE/HEMLOCK-NE POOL	18,867	137,228	7,396	6	22,988,043	24,823,398	6,464,095
W FORELAND POOL	798		140	1	30,190	9,611	19,353
M.KENAI UNALLOCATED ZONE			159	1			1,091,783
FIELD TOTAL	79,178	206,636	99,592	38	89,144,278	60,827,353	60,957,553
TOTAL ACTIVE FIELDS	61,971,642	28,133,450	150,781,410	1,311	7,058,736,237	1,078,266,109	10,534,629,408
DAILY AVERAGE	1,999,085	907,530	4,863,916	INACTIVE	5,608,178	6,611,768	1,908,411
				ALL FIELDS	7,064,344,415	1,084,877,877	10,536,537,819

*INCLUDES 2,576,802 BBLs OF CONDENSATE
 **INCLUDES 111,722,558 BBLs OF CONDENSATE

MARCH 1988

MARCH 1988

ALASKA PRODUCTION SUMMARY BY ACTIVE POOLS FOR JANUARY, 1988

<u>NGL PRODUCTION</u>	<u>NGL (BBL)</u>	<u>CUM NGL (BBL)</u>
KUPARUK RIVER		
KUPARUK RIVER	116,236	3,206,170
FIELD TOTAL	116,236	3,206,170
MCARTHUR RIVER		
HEMLOCK	16,158	7,865,611
MIDDLE KENAI G	4,116	770,533
WEST FORELAND	1,679	202,633
FIELD TOTAL	21,953	8,838,777
PRUDHOE BAY		
LISBURNE	81,260	539,109
PRUDHOE	1,636,345	18,352,059
FIELD TOTAL	1,717,605	18,891,168
SWANSON RIVER		
HEMLOCK	3,074	1,187,312
FIELD TOTAL	3,074	1,187,312
TRADING BAY		
HEMLOCK	7	51,679
M. KENAI UNALLOCATED	28	307,616
FIELD TOTAL	35	359,295
TOTAL ACTIVE FIELDS	<u>1,858,903</u>	<u>32,482,722</u>
DAILY AVERAGE	59,964	
		INACTIVE 0
		ALL FIELDS <u>32,482,722</u>

ALASKA PRODUCTION SUMMARY BY ACTIVE POOLS FOR JANUARY, 1988

- 10 -

GAS FIELDS	CONDEN. (BBL)	WATER (BBL)	GAS (MCF)	PROD. WELLS	CUM CONDEN. (BBL)	CUM WATER (BBL)	CUM GAS (MCF)
BEAVER CREEK FIELD							
UNDEFINED POOL		9,554	1,248,499	4		307,605	64,174,405
FIELD TOTAL		9,554	1,248,499	4		307,605	64,174,405
BELUGA RIVER FIELD							
UNDEFINED POOL			2,219,244	14		810	255,410,915
FIELD TOTAL			2,219,244	14		810	255,410,915
EAST BARROW FIELD							
UNDEFINED POOL		29	70,364	4		1,144	4,018,393
FIELD TOTAL		29	70,864	4		1,144	4,018,393
KENAI FIELD							
STERLING 3 POOL		120	1,644,791	9		110,563	264,626,611
STERLING 4 POOL		326	1,786,373	11		85,775	368,965,099
STERLING 5.1 POOL		177	1,619,410	10		138,010	430,884,769
STERLING 6 POOL		261	2,003,838	11		43,050	399,339,906
UNDEFINED POOL		1,233	862,529	7		66,424	120,934,010
TYONEK POOL		504	496,496	4	11,877	33,199	210,254,245
FIELD TOTAL		2,621	8,413,437	52	11,877	489,721	1,839,036,275
MCARTHUR RIVER FIELD							
MIDDLE KENAI POOL			1,012,501	4			98,253,038
FIELD TOTAL			1,012,501	4			134,565,321
MIDDLE GROUND SHOAL FIELD							
B C AND D POOL			10,664	1			114,028
UNDEFINED POOL			20,741	1			2,081,221
FIELD TOTAL			31,405	2			2,195,249
NORTH COOK INLET FIELD							
TERTIARY POOL		3,157	3,966,366	12		103,231	824,263,922
FIELD TOTAL		3,157	3,966,366	12		103,231	824,263,922
PRETTY CREEK FIELD							
UNDEFINED POOL			75,291	1		125	917,728
FIELD TOTAL			75,291	1		125	917,728
SOUTH BARROW FIELD							
UNDEFINED POOL		5	55,359	6		316	17,879,069
FIELD TOTAL		5	55,359	6		316	17,879,069
SWANSON RIVER FIELD							
UNDEFINED POOL			103,542	1			12,763,095
FIELD TOTAL			103,542	1			12,763,095
TRADING BAY FIELD							
UNDEFINED POOL			29,134	1			3,237,006
FIELD TOTAL			29,134	1			3,237,006
TOTAL ACTIVE FIELDS		15,366	17,225,642	101	11,877	902,952	3,158,461,378
DAILY AVERAGE		495	555,665	INACTIVE	0	108	10,006,579
				ALL FIELDS	11,877	903,060	3,168,467,957

MARCH 1988

MARCH 1988

ALASKA ENHANCED RECOVERY AND DISPOSAL PROJECTS FOR JANUARY, 1988

ENHANCED RECOVERY	OIL (EBL)	WATER (BBL)	GAS (MCF)	INJ. WELLS	CUM OIL (BBL)	CUM WATER (BBL)	CUM GAS (MCF)
ENDICOTT FIELD							
ENDICOTT POOL		3,981	2,747,915	3	21,036	3,982	8,363,045
FIELD TOTAL		3,981	2,747,915	3	21,036*	3,982	8,363,045
GRANITE POINT FIELD							
MIDDLE KENAI POOL		332,595		12		129,670,207	
FIELD TOTAL		332,595		12		129,670,207	
KUPARUK RIVER FIELD							
KUPARUK RIVER POOL		21,778,204	8,535,802	211		392,047,811	378,113,918
FIELD TOTAL		21,778,204	8,535,802	211		392,047,811	378,113,918
MCARTHUR RIVER FIELD							
HEMLOCK POOL		2,382,067		16		859,185,674	
MIDDLE KENAI G POOL		142,036		5		31,362,518	
WEST FORELAND POOL		32,920		1		42,390	
FIELD TOTAL		2,557,023		22		890,590,582	
MIDDLE GROUND SHOAL FIELD							
B C AND D POOL		60,316		2		26,184,044	
E F AND G POOL		406,472		15		225,589,167	
FIELD TOTAL		466,788		17		258,569,150	
PRUDHOE BAY FIELD							
LISBURNE POOL			7,343,480	3		337,626	64,084,749
PRUDHOE POOL		36,528,950	106,074,042	133	13,012,875	1,542,425,632	7,068,139,458
FIELD TOTAL		36,528,950	113,417,522	136	13,012,875*	1,542,763,258	7,132,224,207
SWANSON RIVER FIELD							
HEMLOCK POOL			8,050,939	7		8,337,995	2,022,926,300
FIELD TOTAL			8,050,939	7		8,337,995	2,022,926,300
TOTAL ACTIVE FIELDS		61,667,541	132,752,178	408	13,033,911*	3,221,982,985	9,541,527,470
DAILY AVERAGE		1,989,275	4,282,328	INACTIVE	0	127,512,325	743,988
				ALL FIELDS	13,033,911*	3,349,495,310	9,542,371,458

DISPOSAL PROJECTS	FLUIDS (BBL)	DISP. WELLS	CUM FLUIDS (BBL)
ENDICOTT FIELD			
UNDEFINED ZONE	165,867	2	488,558
FIELD TOTAL	165,867	2	488,558
KENAI FIELD			
UNDEFINED ZONE	2,852	1	213,548
STERLING 4 POOL	13,946	1	93,137
FIELD TOTAL	16,798	2	306,685
KUPARUK RIVER FIELD			
CRETACIOUS UNDEF ZONE	27,173	1	2,521,990
FIELD TOTAL	27,173	1	2,521,990
PRUDHOE BAY FIELD			
UNDEFINED ZONE	2,413,152	8	126,913,948
FIELD TOTAL	2,413,152	8	126,913,948
SWANSON RIVER FIELD			
UNDEFINED ZONE	210,429	3	1,954,881
FIELD TOTAL	210,429	3	1,954,881
TOTAL ACTIVE FIELDS	2,833,419	16	132,186,062
DAILY AVERAGE	91,400	INACTIVE	43,475
		ALL FIELDS	132,229,537

*FLUIDS RETURNED TO RESERVOIR, NOT ENHANCED RECOVERY

111

STATE OF ALASKA
ALASKA OIL AND GAS CONSERVATION COMMISSION
3001 PORCUPINE DR ANCHORAGE, AK. 99501-3192

BULK RATE
U.S. POSTAGE
PAID
ANCHORAGE, AK.
PERMIT NO. 356

O C E A
972, 973, 974

BARROW

WAINWRIGHT

ARCTIC MEADE RIVER

COASTAL TESHEKPAJK

890

Beaufort

FLAXMAN ISLAND

Teshabuk

Lake

HARRISON BAY

BEECHY POINT

Section

UTUKOK RIVER

LOOKOUT RIDGE

IKPIKPAK RIVER

UMIAT

White SAGAVANIRK

ARCTIC Southern MISHEGUK MTN

FOOT-HILL

KILLIK RIVER

885

PHILIP SMITH MTS

CHANDLER RIVER

BAIRD MTS

AMBLER RIVER

SURVEY PASS

WISEMAN

CHANDALAR

CHRISTIA

Kobuk

KOBUK

835

BETTLES

BEAVER

86

SELAWIK BASIN

SHUNGNAK

BRETAGEO RIVER

US PROV

YUKON

FLATS

840

873

HUGHES

BETTLES

YUKON

CANDLE RIVER

KATEEL RIVER

MELOZIT

TANANA

LIVENGOOD

865

ORTON BAY

IGULATO

MELOZIT

KANTISHNA RIVER

FAIRBANKS Mid. Tanana

867

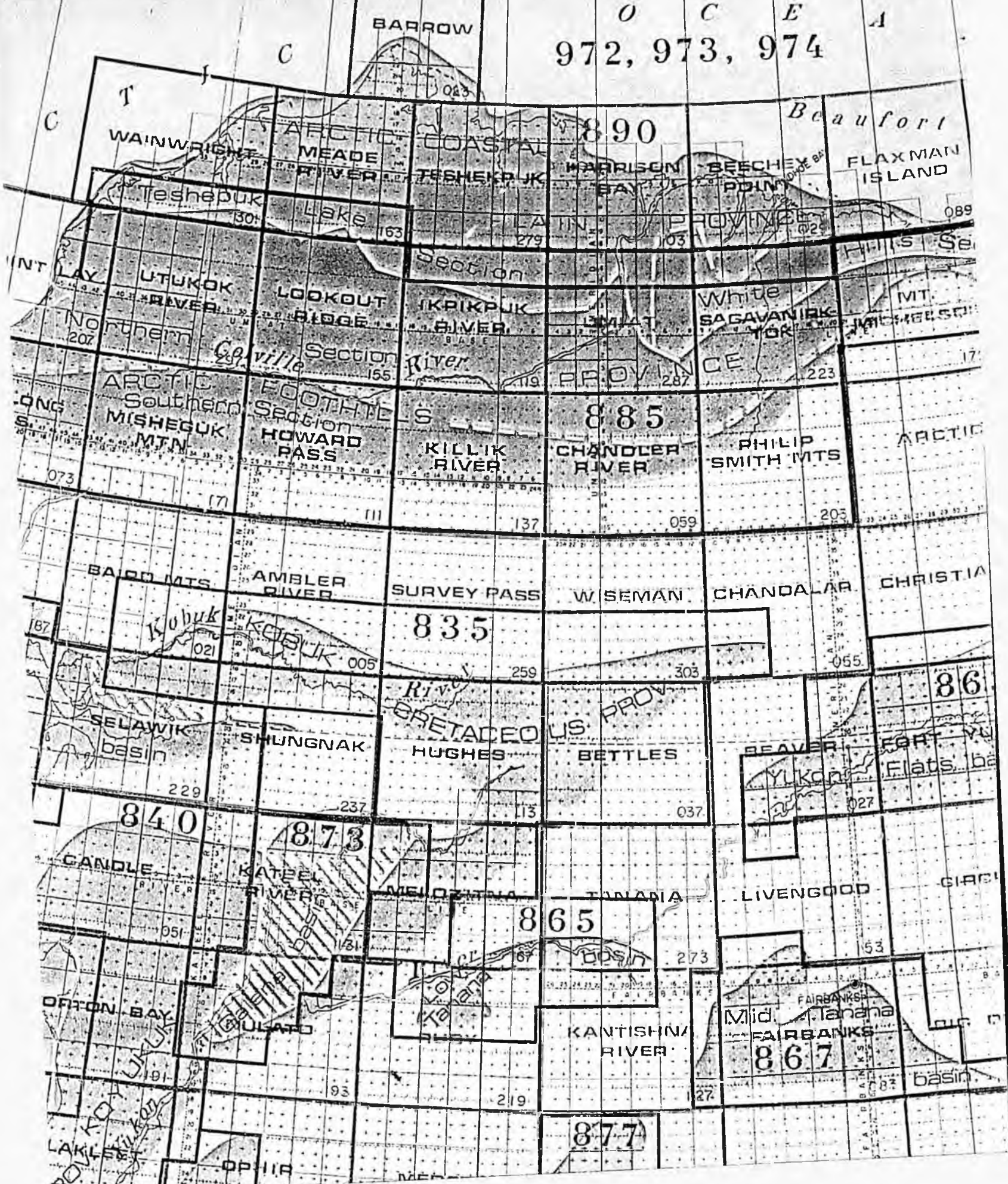
PROV

OPHIR

877

basin

O C E A
972, 973, 974



BARROW

WAINWRIGHT

ARCTIC COASTAL RANGE

890

Beaufort

FLAXMAN ISLAND

Teshemuk

Lake

TESHEKUK RIVER

HARRISON BAY

BEECHER POINT

089

UTUKOK RIVER

LOOKOUT RIDGE

IKRIKPUK RIVER

Section

White SAGAVANIRK MTS

Hills

ARCTIC Southern MISHEGUK MOUNTAINS

FOOTHILLS Section HOWARD PASS

KILLIK RIVER

885

PHILIP SMITH MTS

ARCTIC

BAIRD MTS

AMBLER RIVER

SURVEY PASS

W. SEMAN

CHANDALAR

CHRISTIA

Kotuk

KOTSUK

835

BRETACEOUS PROV

BETTLES

86

SELAWIK basin

SHUNGNAK

HUGHES

REAVER

Yukon

Fort Yukon Flats

840

873

MELOZITNA

865

LIVENGOOD

GIACI

CANDLE RIVER

KATEEL RIVER

273

273

53

53

ORTON BAY

IGLOUATO

KANTISHNA RIVER

867

Mid. FAIRBANKS TANANA

FAIRBANKS basin

877

OPHIA

219

127

127

127

LAKLEET

OPHIA

219

127

127

127

gas. Primary objectives were the shallow Stevens sands with the average depth of wells completed in 1975 about 4,088 ft.

The five-year program is designed to increase the field's daily producing capability to about 400,000 bbls of oil. Nine rigs were drilling on the Elk Hills development program at the end of the year.

Bids were taken during the year for a deep test, 20,000 ft, on the Naval Reserve in 4-31s-24e. The test was expected to begin in early 1976. The deepest previous test at Elk Hills was drilled to 12,856 ft.

Alaska

Development drilling in the Prudhoe Bay field dominated activity in Alaska during 1975 as operators pushed ahead full speed during the first full year of construction on the trans-Alaska pipeline. Atlantic Richfield and BP Alaska completed 26 development wells at Prudhoe, most of them unperforated Sädlerochit formation wells.

Six North Slope exploratory wells were plugged and abandoned, one was completed, and six were suspended pending further evaluation. The single completion was Mobil Oil's Gwydyr Bay South 1 wildcat, which flowed 2,300 BOPD through a half-inch choke during testing. Atlantic Richfield suspended several exploratory wells west of Prudhoe Bay which found oil in the shallow Kuparuk River oil pool, an area which could be producing by 1980 if a water flood project can be economically designed. The primary exploratory target in 1975 was the Lisburne formation, which didn't produce any significant discoveries.

In the Cook Inlet area, 23 development wells were completed, mostly offshore in Cook Inlet and in the Swanson River field on the Kenai Peninsula. There were four exploratory wells plugged and abandoned in the Cook Inlet area last year. One of them was the Standard Oil Company of California's Kasilof 1, drilled by the George F. Ferris jack-up rig. Cities Service had a gas discovery on the west side of Cook Inlet when its Lewis River 1 well flow tested 7.4 million cu ft per day from two zones.

Standard Oil Company of California drilled two rank wildcats in the Selawik Basin near Kotzebue on Alaska's northwest coast. The wells were drilled under SoCal's exploration agreement with the NANA native regional corporation and both were plugged and abandoned. Late in 1975 Louisiana Land and Exploration was preparing to drill the first of four rank wildcats in the Kandik Basin between Fairbank and the Canadian border. LL&E was to drill the four on native lands belonging to the Doyon, Ltd native regional corporation, headquartered in Fairbanks. At the end of the year six other oil companies had exploration agreements with four other native regional corporations and some observers were anticipating an increase in wildcatting on native lands during 1976.

Probably the biggest industry disappointment in

Alaska during 1975 was the failure of the COST 1 stratigraphic test to reach its 16,000-foot objective in the storm-swept Gulf of Alaska. After a late season start, the drillship Glomar Conception struggled with boulder strewn bottom conditions and 30-foot waves for 10 weeks before abandoning the strat hole at a total depth of only 5,150 feet, far too shallow to provide the solid geologic information needed to evaluate the sediments of the Gulf of Alaska before this spring's proposed OCS lease sale. More than \$12 million was reportedly spent on the well by the 26 participating companies.

In Naval Petroleum Reserve No. 4, the Navy drilled two exploratory wells during 1975. One was completed as a shallow gas producer and the deep exploratory test at Camp Halkett was plugged and abandoned after finding only non-commercial oil shows. Husky Oil NPR Operations won a five-year contract to conduct a seismic and drilling exploratory program for the Navy on the huge reserve and the first of two dozen exploratory wells in the project was due to be spudded early in 1976.

The Alaska state legislature passed a 20-mill tax on oil and gas reserves in-place during the 1975 session. The levy takes effect during 1976 and is expected to cost the owners of Prudhoe Bay reserves hundreds of millions of dollars during the next two years. An environmental lawsuit blocked Shell Oil and SoCal from beginning exploratory drilling on \$25 million worth of leases in Kachemmak Bay won during the 1973 state lease sale. The administration of Gov. Jay Hammond has also called for legislative approval for canceling the leases to protect the rich fishing area from exploratory drilling. The Beaufort Sea lease sale was postponed by the Hammond administration and that area offshore from Prudhoe Bay had not been drilled at year's end.

Overall, there were 70 drilling permits issued by the state during 1975, a slight increase over the 61 permits issued the year before, but more than twice the 31 permits issued in 1972. The record year for drilling in Alaska was 1969, following the discovery of the Prudhoe Bay giant, when 122 drilling permits were issued.

Marine seismic work was at record levels during 1975 as companies prepared for the series of OCS sales scheduled in Alaskan waters during the following three years. At one time there were 24 seismic vessels operating in the Gulf of Alaska, Bristol Bay, the Bering Sea, the Beaufort Sea, and Lower Cook Inlet.

More than 55 percent of the pipeline portion of the oil pipeline from Prudhoe Bay to Valdez was completed during 1975 and Alyeska Pipeline Service Company and its contractors had more than 21,000 persons at work during the peak of the construction season. More than 370 miles of the 400-mile pipeline were installed by the end of the year. Alyeska is right on schedule to meet its 600,000 BOPD start-up of the pipeline in mid-1977 and 1.2 million BOPD throughput by the end of that year.

West Coast-Alaska Region 1975 New Field Wildcat Discoveries

Alaska

Operator	Well Name	Location	Initial Potential	Total Depth
Barrow Quad U.S.Navy	1 Iko	16-21n-16w	F 1,000 MCFGPD	2,700
Beechy Point Quad Mobil Oil	Gwydyr Bay South #1	8-12n-13e	F 2,300 BOPD	12,237
Tyonek Quad Cities Service Oil	Lewis River #1	2-14n-9w	F 7,400 MCFGPD	9,480

California

Operator	Well Name	Location	Initial Potential	Total Depth
Fresno County Quintana Petroleum	1 McDonald	18-17s-16e	F 117 BOPD	10,081
Glenn County Occidental Petroleum	1-12 Morrissey	12-22n-3w	F 4,335 MCFGPD	5,711
Kern County Tenneco Oil	22X-34 N. San Emidio	34-12n-21w	F 550 BOPD	16,520
Santa Barbara County Atlantic Richfield	1 U.S. Miller	4-9n-26w	F 320 BOPD	8,400
Solano County Atlantic Oil	1 McCune	4-7n-1e	F 3,000 MCFGPD	not reptd
Yolo County Shell Oil	1-28 Stephens	28-9n-2e	shut in	7,504
Shell Oil	1-15 Russell	15-9n-2e	shut in	6,712

continued to increase. Total state output of oil since the trans-Alaska pipeline went on stream in 1977 increased to where Alaska ranked third in the nation in crude production. While still well behind the national leader, Texas, Alaska could pass second place Louisiana in 1979.

while a 377 ft wildcat drilled in Lewis County, Washington, proved unsuccessful. However, at year-end, Mobil Oil was drilling at a projected 14,000 ft (Eocene) wildcat in Oregon's Douglas County. The 1 Sutherlin Unit, 36-24s-5w, will be, upon completion, the deepest well ever drilled in the state. Mobil had leased approximately one million acres in the state, including a large portion of the southern end of the Willamette Valley. The company scheduled two Linn County wildcats... a proposed 10,500 ft well in 28-15s-3w and a 12,000 ft well in 14-13s-3w... to be drilled after the Sutherlin is complete. Six 4500 ft Eocene wells were scheduled by Farnham Chemical, also in Linn County.

Washington and Oregon

Two dry holes were completed in the two-state area in 1978, one in Oregon and one in Washington. A 7684 ft wildcat was abandoned in Hearney County, Oregon;

1978 U.S. Drilling West Coast-Alaska Region Well Completions by County

Alaska

Quad	NFW					Footage	OEXP					Footage	All Wells				
	Oil	Gas	Dry	Total	Footage		Oil	Gas	Dry	Total	Footage		Oil	Gas	Dry	Total	Footage
Barrow	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	4,682	
Beechey Point	1	1	4	6	67,839	0	0	1	1	7,626	21	4	5	30	308,591		
Chandler Lake	0	0	1	1	16,457	0	0	0	0	0	0	0	1	1	16,457		
Harrison Bay	0	0	3	3	27,686	0	0	0	0	0	0	0	3	3	27,686		
Kenai	0	0	1	1	14,200	0	0	0	0	0	20	1	3	24	156,814		
Meade River	0	0	1	1	12,588	0	0	0	0	0	0	0	1	1	12,588		
Teshekpuk	0	0	1	1	7,946	0	0	0	0	0	0	0	1	1	7,946		
Tyonek	0	1	1	2	17,124	0	0	0	0	0	0	1	1	2	17,124		
Total	1	2	12	15	163,840	0	0	1	1	7,626	41	8	15	64	551,888		

Alaska—Offshore

Icy Bay	0	0	3	3	37,204	0	0	0	0	0	0	0	3	3	37,204
Middleton Island	0	0	1	1	13,507	0	0	0	0	0	0	0	1	1	13,507
Albatross Bank	0	0	0	0	0	0	0	0	0	0	0	0	1	1	9,357
Total	0	0	4	4	50,711	0	0	0	0	0	0	0	5	5	60,068

California

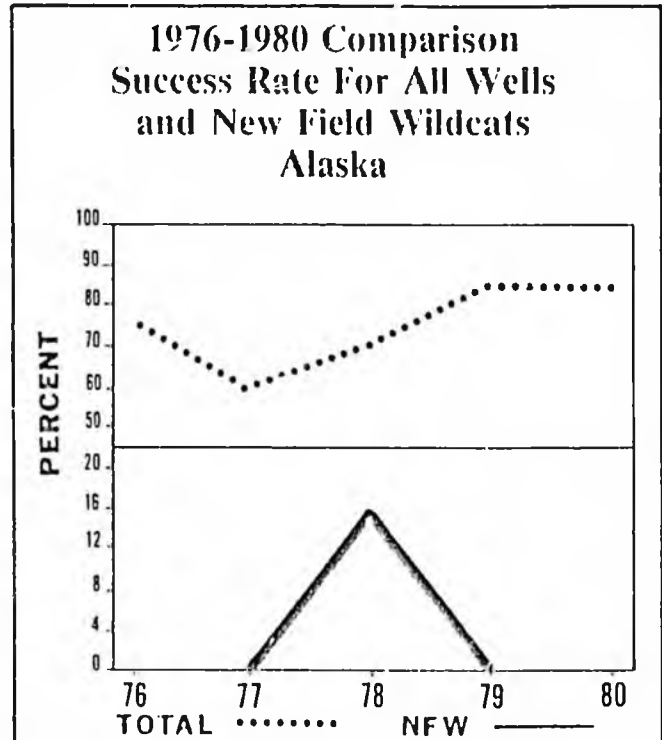
Alameda	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2,445
Butte	0	0	0	0	0	0	0	1	1	3,920	0	0	1	1	3,920
Colusa	0	1	2	3	17,271	0	0	3	3	18,359	0	9	10	19	123,053
Contra Costa	0	0	4	4	32,299	0	2	0	2	9,209	0	5	13	18	82,290
Fresno	1	0	3	4	36,217	0	1	4	5	26,665	76	2	13	91	250,986
Glenn	0	0	6	6	22,016	0	2	9	11	28,632	0	6	21	27	96,428
Humboldt	0	0	2	2	7,215	0	1	0	1	6,016	0	3	2	5	17,643
Kern	0	0	14	14	83,245	14	1	35	50	302,408	1,442	9	90	1,541	3,753,109
Kings	0	0	8	8	83,551	0	0	2	2	18,831	1	1	15	17	117,081
Lake	0	0	1	1	8,231	0	0	0	0	0	0	0	1	1	8,231
Los Angeles	0	0	0	0	0	1	0	5	6	57,161	49	0	12	61	237,579
Madera	0	0	0	0	0	0	1	1	2	14,601	0	1	1	2	14,601
Merced	0	0	2	2	10,800	0	0	0	0	0	0	0	2	2	10,800
Modoc	0	0	0	0	0	0	0	1	1	3,400	0	0	1	1	3,400
Monterey	0	0	6	6	23,167	0	0	1	1	1,023	30	0	8	38	95,100
Orange	0	0	0	0	0	0	0	0	0	0	20	0	2	22	58,025



Alaska

The costly plunge into the icy waters of the Beaufort Sea became a reality for Alaskan wildcatters in 1980, as Sohio Alaska Petroleum Co was the first operator to sink a drill bit on leases that drew \$1.056 billion in December, 1979. Other highlights in the state had work continuing on two major projects designed to enhance oil recovery from proved reserves, a massive waterflood

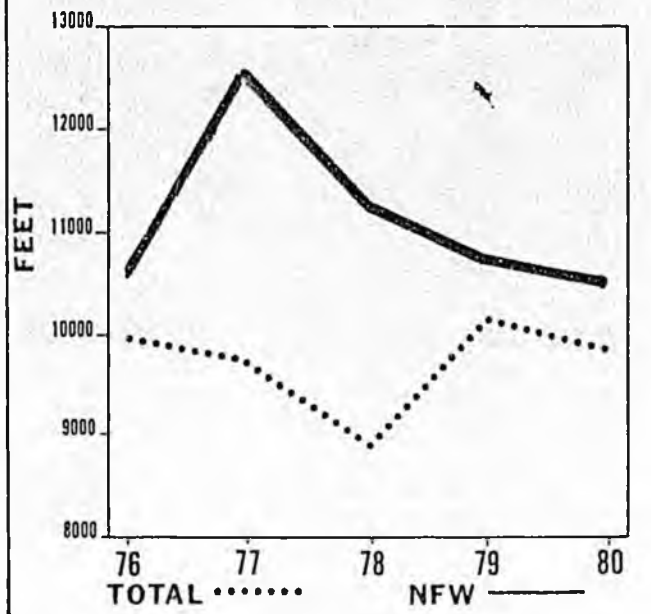
Alaska					
New Field Wildcats					
	Oil	Gas	Dry	Total	Footage
1980	0	0	19	19	199,965
1979	0	0	14	14	150,734
1978	1	2	16	19	214,551
1977	0	0	17	17	214,928
1976	0	0	11	11	117,351
Other Exploratory Wells					
1980	2	0	0	2	16,765
1979	0	1	1	2	13,755
1978	0	0	1	1	7,626
1977	1	0	0	1	11,926
1976	1	0	1	2	19,492
All Wells Drilled for Oil or Gas					
1980	136	4	24	166	1,527,538
1979	87	4	15	106	1,073,506
1978	41	8	20	69	611,956
1977	33	7	25	65	635,756
1976	36	3	13	52	518,125



for the Prudhoe Bay oil field and a drilling and development program for the Kuparuk formation about 30 miles west of Prudhoe Bay.

On the production side, Alaska wells produced about 1.6 million bbls of oil daily to keep the state in number two position in the ranks of the nation's oil producing

1976-1980 Comparison Average Depth of All Wells and New Field Wildcats Alaska



states. Texas was first with its production of 2.7 million bbls of oil per day. Alyeska Pipeline Service Co completed 1980 operations with two mileposts in December: the passage of the 1.5 billionth bbl of oil from the Prudhoe Bay field to Valdez, and the departure from the trans-Alaska pipeline's Marine Terminal of the 2,000th tanker loaded with North Slope crude.

A record number of state drilling permits were issued during 1980, a total of 149. It was the largest number of

1980 U.S. Drilling Alaska Ten Leading Quads

Rank	Quad	State	Completions
1	Beechey Point	Alaska	131
2	Kenai State Offshore	Alaska	12
3	Kenai	Alaska	5
4	Barrow	Alaska	4
5	Gulkana	Alaska	2
5	Harrison Bay	Alaska	2
5	Saldovia Federal Offshore	Alaska	2
5	Teshkepuk	Alaska	2
9	Iliamna Federal Offshore	Alaska	1
9	Killik River	Alaska	1
9	Tyonek	Alaska	1
9	Umnak	Alaska	1
9	Umiat	Alaska	1
9	Wainwright	Alaska	1

drilling permits issued in one year since 1969, when 122 were issued following the Prudhoe Bay discovery. The number of development wells completed in 1980, 103, was also a record. The previous high was 85 in 1968. Nine exploratory wells were drilled on state and private land during the year, the third lowest number on record. Seven were drilled in 1959, eight in 1971 and nine each in 1960 and 1972. The high was 49 in 1969. The 166 total completions in Alaska in 1980 is 60 more than were completed in 1979.

1980 U.S. Drilling Alaska Estimated Drilling and Completion Costs by Depth Range

All Wells Drilled for Oil or Gas

Depth Range	Wells	Footage	Estimated Cost
02	2	4,441	\$ 4,599,915
03	1	3,666	3,045,713
04	1	4,170	3,460,683
05	10	67,333	33,983,475
06	51	454,099	162,022,356
07	83	848,167	356,517,462
08	13	161,485	64,295,710
09	4	63,842	93,455,337
11	1	20,335	16,876,017
1980 Total	166	1,627,538	\$738,256,668
1979 Total	106	1,073,506	\$399,349,227
1978 Total	69	611,956	\$232,852,382
1977 Total	65	635,756	\$230,208,829
1976 Total	52	518,125	\$144,245,008

Depth Range

01 = 00000-01249	06 = 07500-09999
02 = 01250-02499	07 = 10000-12499
03 = 02500-03749	08 = 12500-14999
04 = 03750-04999	09 = 15000-17499
05 = 05000-07499	10 = 17500-19999
	11 = 20000-deeper

Sohio spudded the first Beaufort Sea probe, Challenge Island #1, on November 1, and was drilling below 12,000 ft at year-end. The hole is being directionally drilled from tract BF 109 to the three-way intersection of BF 95, BF 108 and BF 109. BF 95 is held by BP, Sohio, NANA, Koniag and Sealaska; BF 108 by Mobil, Phillips and Chevron; and BF 109 by Exxon. All lessees are participating in the well, with Sohio acting as operator.

Sohio also was preparing to drill three other exploratory probes in the Beaufort Sea at the end of the year. The wells will be drilled in the Sag Delta area, two from

**1980 U.S. Drilling
Alaska
Well Completions by Quad**

Alaska

Quad	NFW					OEXP					All Wells				
	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage
Barrow	0	0	2	2	7,836	0	0	0	0	0	0	1	3	4	12,277
Beechey															
Point	0	0	1	1	11,372	2	0	0	2	16,765	126	1	4	131	1,356,101
Gulkana	0	0	2	2	13,605	0	0	0	0	0	0	0	2	2	13,605
Harrison Bay	0	0	2	2	20,544	0	0	0	0	0	0	0	2	2	20,544
Kenai	0	0	1	1	12,903	0	0	0	0	0	2	2	1	5	42,947
Killik River	0	0	1	1	17,000	0	0	0	0	0	0	0	1	1	17,000
Teshekpuk	0	0	2	2	22,986	0	0	0	0	0	0	0	2	2	22,986
Tyonek	0	0	1	1	11,776	0	0	0	0	0	0	0	1	1	11,776
Umiat	0	0	1	1	15,611	0	0	0	0	0	0	0	1	1	15,611
Umnak	0	0	1	1	7,505	0	0	0	0	0	0	0	1	1	7,505
Wainwright	0	0	1	1	20,335	0	0	0	0	0	0	0	1	1	20,335
Total	0	0	15	15	161,473	2	0	0	2	16,765	128	4	19	151	1,540,687

Alaska—Offshore

Seldovia	0	0	2	2	14,517	0	0	0	0	0	0	0	2	2	14,517
Iliamna	0	0	1	1	14,975	0	0	0	0	0	0	0	1	1	14,975
Kenai	0	0	1	1	9,000	0	0	0	0	0	10	0	2	12	17,359
Total	0	0	4	4	38,492	0	0	0	0	0	10	0	5	15	86,851

**1980 U.S. Drilling
Alaska
Reported Discovery Well Completions
Including New Field Wildcats, New Pay Discoveries & Field Extensions**

Discovery Type	Operator	Well Name	Location	Producing Formation	Total Depth	Initial Potential
Beechey Point Quad						
Extension	Arco O&G	12 West Sak 25647	5-11n-10e	Formation not reported 6001-6259	6382	F 1390 BOPD
Extension	Arco O&G	1 West Bay State	1-11n-14e	Formation not reported 8560-8902	10,383	F 3300 BOPD + 23,600 MCFGPD



Alaska

Efforts to develop Alaska's existing producing areas remained constant in 1981, but a decrease in exploration resulted in an overall three percent decline in statewide activity. The year's 161 completions were five less than a year ago, but resulted in an equal number of productive wells, 142, as the success rate improved two percentage points to 88 percent. Successful completions included 139 oil wells, one more than last year, and three gas, one less than in 1980.

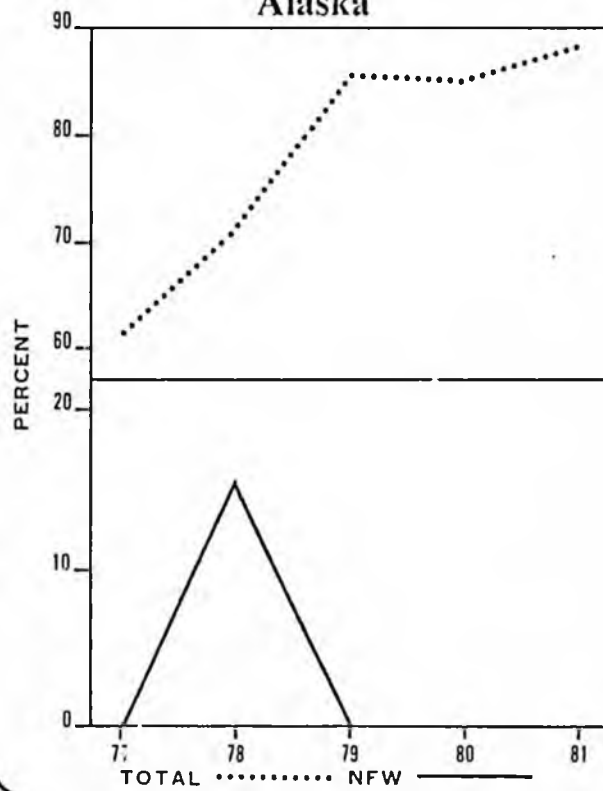
Though several promising wildcats were being tested at year's end, completions in that category were down 37 percent and no new field discoveries were reported complete for the third straight year. Twelve wells were drilled in search of new producing areas in 1981, seven

fewer than a year ago and four less than the 16 wildcats drilled on the average for each of the past four years.

Four wells were drilled in search of new pays or to extend known reservoirs, but only one, a gas well, was successful. Only two "other exploratory" wells were drilled last year, neither of which produced, and from

Alaska					
New Field Wildcats					
	Oil	Gas	Dry	Total	Footage
1981	0	0	12	12	120,020
1980	0	0	19	19	199,965
1979	0	0	14	14	150,734
1978	1	2	16	19	214,551
1977	0	0	17	17	214,923
Other Exploratory Wells					
	Oil	Gas	Dry	Total	Footage
1981	0	1	3	4	38,190
1980	2	0	0	2	16,765
1979	0	1	1	2	13,755
1978	0	0	1	1	7,626
1977	1	0	0	1	11,926
All Wells Drilled for Oil or Gas					
	Oil	Gas	Dry	Total	Footage
1981	139	3	19	161	1,487,672
1980	138	4	24	166	1,627,538
1979	87	4	15	106	1,073,506
1978	41	8	20	69	611,956
1977	33	7	25	65	635,756

**1977-1981 Comparison
Success Rate for All Wells
and New Field Wildcats
Alaska**



**1981 U.S. Drilling
Alaska
Estimated Drilling and Completion Costs
by Depth Range**

All Wells Drilled for Oil or Gas

Depth Range	Wells	Footage	Estimated Cost
02	1	2,278	\$ 2,562,613
04	2	8,375	7,076,767
05	8	33,786	23,585,599
06	34	307,875	147,975,482
07	104	982,721	371,777,078
08	9	104,905	46,072,601
09	3	47,732	80,675,347
1981 Total	161	1,487,672	\$679,725,487
1980 Total ¹⁴¹	166	1,627,538	\$838,927,251
1979 Total ⁸⁰	106	1,073,506	\$463,782,888
1978 Total ⁴⁸	69	611,956	\$263,483,387
1977 Total ⁴⁰	65	635,756	\$244,521,797

Depth Range

01=00000-01249	06=07500-09999
02=01250-02499	07=10000-12499
03=02500-03749	08=12500-14999
04=03750-04999	09=15000-17499
05=05000-07499	10=17500-19999
11=20000-deeper	

expenditures were down 19 percent in Alaska in 1981, to \$679,725,487. The state ranked 10th nationally in total expenditures although it accounted for only one of every 475 wells drilled in the U.S. The average well in Alaska cost \$4,221,848 to drill in 1981.

North-central Alaska's Beechey Point Quad, which includes the Prudhoe Bay area, continued to attract better than three-quarters of all Alaska activity with 122 completions in 1981. Last year, when 131 wells were completed in the quad, Beechey Point accounted for about 79 percent of Alaska activity. The state's second most active quad was Kenai State Offshore with 16 completions followed by Kenai Quad in third with six completions. Both quads are in south-central Alaska. Barrow Quad was the fourth most active in the state with three completions, while a pair of wells each were completed in three quads and eight quads reported one well completion each in 1981.

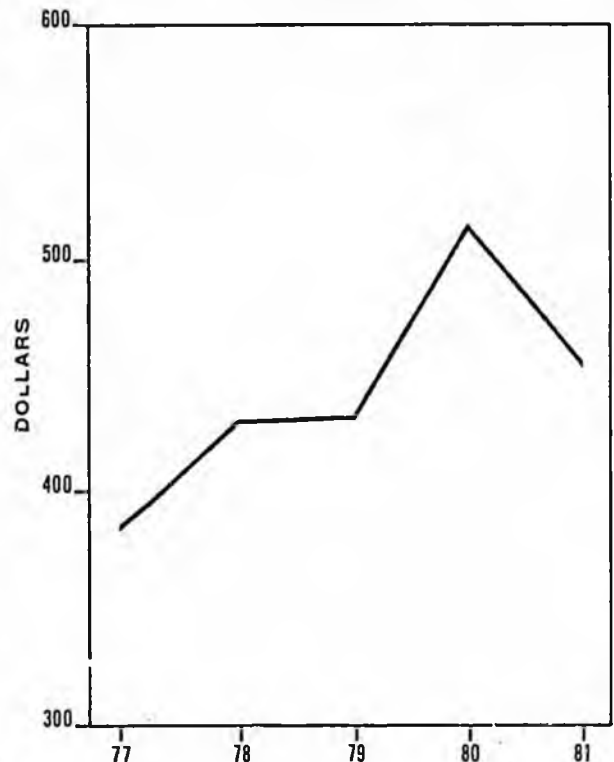
Sohio, with 66 Alaska completions, replaced ARCO Oil & Gas as the state's leading operator. The company's efforts resulted in 63 oil wells and three dry holes, one of which was a wildcat. A year ago, Sohio ranked second with 58 completions, 56 oil wells and two dry holes. ARCO dropped a notch to second completing 14 fewer

wells than a year ago. Out of 57 completions, ARCO had 55 oil wells and two failures, one drilled in search of a new field. Last year, ARCO drilled 71 wells, 67 of which were successful.

Union Oil of California again ranked third, completing 15 wells in 1981. Thirteen of those produced oil and two were dry holes. The company was 100 percent successful in its 1980 completions with eight oil and two gas wells. Chevron USA replaced the U.S. Geological Survey in fourth place completing seven wells, four oil, one gas and two dry wildcats. No completions were reported for Chevron in 1980. The U.S.G.S., with four completions, two gas and two wildcat failures, ranked fifth in 1981. Last year, the U.S.G.S. drilled seven dry holes, six of which were wildcats. Husky Oil, which completed five wells a year ago, was not listed among the state's top five operators in 1981.

Thirteen years after the discovery of Prudhoe Bay, Alaska's North Slope boasts several recent, probably commercial discoveries, and December 15 began producing its first oil beyond Prudhoe Bay boundaries. Oil

**1977-1981 Comparison
Average Cost per Foot—All Wells
Alaska**



from the Kuparuk River field, about 40 miles west of Prudhoe Bay, began flowing about 50,000 bbls of oil per day through ARCO's gathering system to the trans-Alaska oil pipeline in mid-December and was expected to reach a daily production rate of 95,000 barrels by mid-January 1982.

The search for what industry hopes could be Alaska's

**1981-1980 U.S. Drilling
Comparison—Five Leading Operators
Ranked by Total Completions**

Alaska

Operator		New Field Wildcats				All Wells Drilled			
		Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
1. Sohio	1981	0	0	1	1	63	0	3	66
	1980	0	0	0	0	56	0	2	58
2. Arco	1981	0	0	1	1	55	0	2	57
	1980	0	0	3	3	66	1	4	71
3. Union Oil of California	1981	0	0	0	0	13	0	2	15
	1980	0	0	0	0	8	2	0	10
4. Chevron	1981	0	0	2	2	4	1	2	7
	1980	0	0	0	0	0	0	0	0
5. USGS	1981	0	0	2	2	0	2	2	4
	1980	0	0	6	6	0	0	7	7

next giant field centers on the icy waters of the Beaufort Sea where seven new field wildcats were being drilled from natural barrier islands and man-made islands at year-end. Three were drilled last year.

The Interior Department is looking at offshore frontier basins in Alaskan waters for more energy self-sufficiency, and in July announced a proposed five-year offshore oil and gas leasing plan that calls for 16 sales in Alaskan waters during 1982-86. In anticipation of the sales, ARCO and 17 other companies plan to spend about \$150 million to drill three stratigraphic tests during 1982 in the Bering Sea off the west coast of Alaska. The Sedco 708 semi-submersible and the Key Singapore jackup rig will do the drilling.

The state also has an ambitious oil and gas leasing schedule that calls for 16 sales during 1982-85. In addition, the Bureau of Land Management will offer 1.5 million acres at its oil and gas lease sale #821 scheduled to be held January 27, 1982 in Fairbanks. The sale was originally scheduled for December 16, but was postponed because of the oil industry's uncertainty about anti-trust regulations established by the U.S. Department of Justice. Some of the regulations contested by the industry were subsequently eliminated and the lease sale rescheduled. The Justice Department regulations eliminated called for cost estimates of recoverable crude oil and natural gas, accompanied by detailed explanations of how the estimates were arrived at.

On December 15 President Reagan signed into law a waiver package designed to remove government obstacles hindering development of a private sector financing plan for the Alaska Natural Gas Transportation System. The congressional battle over the complex financing package, intended to make private financing of the project less risky, won final approval in the House of Representatives just five days before the December 15 deadline. Op-

**1981 U.S. Drilling
Alaska
Ten Leading Quads**

Rank	Quad	State	Completions
1	Beechey Point	Alaska	122
2	Kenai State Offshore	Alaska	16
3	Kenai	Alaska	6
4	Barrow	Alaska	3
5	Flaxman	Alaska	2
5	Harrison Bay	Alaska	2
5	Tyonek	Alaska	2
8	Afognak Federal Offshore	Alaska	1
8	Ikpikpuk River	Alaska	1
8	Lookout Ridge	Alaska	1
8	Meade River	Alaska	1
8	Point Lay	Alaska	1
8	Seldovia Federal Offshore	Alaska	1
8	Sutvik Island	Alaska	1
8	Tyonek State Offshore	Alaska	1

ponents of the legislation are considering court action to try and overturn it. Despite the potential lawsuit, the pipeline's builders were visiting the world's finest financial institutions, seeking to borrow billions of dollars for the largest privately-funded construction project in world history.

On the production side, Alaskan wells produced about 1.6 million bbls of oil daily during the year allowing the state to maintain its number two position in the ranks of oil producing states. Texas remains number one with its daily production of nearly 2.6 million bbls per day.

**1981 U.S. Drilling
Alaska
Well Completions by Quad**

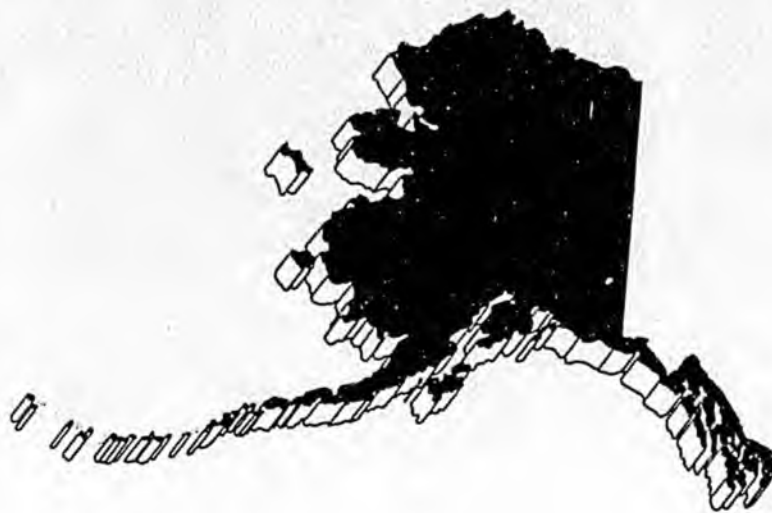
Alaska Quad	NFW					OEXP					All Wells				
	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage
Barrow	0	0	1	1	4,015	0	1	0	1	4,360	0	2	1	3	10,653
Beechey Point	0	0	1	1	11,356	0	0	0	0	0	118	0	4	122	1,271,607
Flaxman	0	0	1	1	13,587	0	0	1	1	15,074	0	0	2	2	28,661
Harrison Bay	0	0	2	2	17,310	0	0	0	0	0	0	0	2	2	17,310
Ikpikpuk River	0	0	1	1	5,882	0	0	0	0	0	0	0	1	1	5,882
Kenai	0	0	0	0	0	0	0	1	1	10,731	5	0	1	6	10,733
Lookout River	0	0	1	1	11,200	0	0	0	0	0	0	0	1	1	11,200
Meade River	0	0	1	1	6,690	0	0	0	0	0	0	0	1	1	6,690
Point Lay	0	0	1	1	17,038	0	0	0	0	0	0	0	1	1	17,038
Sutwik Island	0	0	1	1	10,907	0	0	0	0	0	0	0	1	1	10,907
Tyonek	0	0	0	0	0	0	0	1	1	8,025	0	1	1	2	14,844
Total	0	0	10	10	97,985	0	1	3	4	38,190	123	3	16	142	1,405,525

Alaska Offshore

Alognak	0	0	1	1	8,907	0	0	0	0	0	0	0	1	1	8,907
Seldovia	0	0	1	1	13,128	0	0	0	0	0	0	0	1	1	13,128
Kenai	0	0	0	0	0	0	0	0	0	0	15	0	1	16	60,111
Tyonek	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Total	0	0	2	2	22,035	0	0	0	0	0	16	0	3	19	82,147

**1981 U.S. Drilling
Alaska
Reported Discovery Well Completions
Including New Field Wildcats, New Pay Discoveries & Field Extensions**

Discovery Type	Operator	Well Name	Location	Producing Formation	Total Depth	Initial Potential
Extension	U.S.G.S.	2 Walakpa	31-20n-19w	Formation & Interval not reported	4360	Gas Well



Alaska

Marking a year of substantial expansion in Alaskan development drilling, 1982 brought a 33.5 percent rise in total reported completions. Of the 215 new wells, all but 17 were infill and resulted in 180 field oil producers, a gain of 29.5 percent. Gas completions in existing fields more than tripled from two in 1981 to nine this past year.

Alaskan wildcat activity increased 8.3 percent, from 12 to 13 wells, but returned mixed results. Though encouraging gas shows were encountered in several wells, 1982 became the fourth consecutive year without a single new field discovery. At the same time, four "other exploratory" wells drilled in search of new pays or to extend known reservoirs were also unsuccessful. This matches the number completed a year ago, when one test was reported successful. The overall success rate for 1982 completions remained close to the five-year high of 1981, showing only a 9.3 percent dip to 87.9 percent.

Alaska's average 1982 well was drilled 557 ft deeper to 9797 ft. A total of 41.6 percent more rock was penetrated, with operators having drilled 2,106,338 ft by year-end. Despite this increase, the average cost per ft of hole dropped by 7.2 percent to \$386.11. Though Alaska's total estimated drilling and completion expenditures were 31.4 percent higher than in 1981, the average 1982 well cost an estimated \$3,782,678—1.6 percent less than the average 1981 well. This was 9.4 times the national average and continued to distinguish Alaska as the most expensive state in which to drill. While ranking eighth in terms of total estimated expenditures, the state was the site of only one in every 394 U.S. wells completed in 1982.

Alaska's average wildcat hit bottom at 10,530 ft, 528 ft deeper than in the previous year. This reverses an average 4.7 percent per year shallowing trend which had continued since 1978. Footage cut in wildcatting increased 14.1 percent, to 136,887 ft. "Other exploratory" wells

averaged 600 ft deeper at 10,148 ft than in 1981, and in total, penetrated 6.0 percent more hole.

ARCO again took the lead as Alaska's most active operator, replacing Sohio with 119 wells, more than double its 1981 completion total. Sohio decreased its drilling by 12.1 percent to 58 reported completions, but held second place among the top operators. Both companies completed no new gas wells, concentrating on the more lucrative infill oil drilling, with ARCO successfully completing 111 wells and Sohio 56. Union Oil of California ranked third for the third straight year, achieving a 100 percent success rate by completing seven new oil wells and eight new gas producers. Chevron USA retained its fourth

Alaska					
New Field Wildcats					
	Oil	Gas	Dry	Total	Footage
1982	0	0	13	13	136,887
1981	0	0	12	12	120,020
1980	0	0	19	19	199,968
1979	0	0	14	14	150,734
1978	1	2	16	19	214,551
Other Exploratory Wells					
	Oil	Gas	Dry	Total	Footage
1982	0	0	4	4	40,471
1981	0	1	3	4	38,190
1980	2	0	0	2	16,788
1979	0	1	1	2	13,758
1978	0	0	1	1	7,620
All Wells Drilled for Oil or Gas					
	Oil	Gas	Dry	Total	Footage
1982	180	9	26	215	2,106,338
1981	139	3	19	161	1,487,672
1980	138	4	24	166	1,627,500
1979	87	4	15	106	1,073,500
1978	41	8	20	69	611,900

seat, finaling
 Replacing the
 Amoco Prod
 two of which
 Beechey Po
 tably remaine
 83.3 percent o
 cent of all nev
 pletions repre
 figures. In the
 replaced its o
 active, with 1:
 Kenai State C
 decline in repr
 same time, Ha
 miles west of)
 most active qu
 by year-end. N
 Point Barrow)
 Of the nation
 two were in Ala
 only one explo
 miles, ranking i
 Basin showed :
 wildcat for ever
 Dominating a
 industry was fed
 in \$2.05 billion ii
 sale in the state's
 was spent by vari
 leases on a struct



**1982 U.S. Drilling
Alaska
Ten Leading Quads**

Rank	Quad	State	Completions
1	Beechey Point	Alaska	179
2	Kenai	Alaska	15
3	Kenai State Offshore	Alaska	10
4	Harrison Bay	Alaska	3
5	Chandler Lake	Alaska	1
5	Davidson Bank	Alaska	1
5	Flaxman	Alaska	1
5	Gulkana	Alaska	1
5	Killik River	Alaska	1
5	Point Lay	Alaska	1
5	St. Michael	Alaska	1
5	Tyonek	Alaska	1

SRS Tern, was plugged and abandoned in August. Mobil Oil Corp's #1A South McArthur River was completed and the rig released in mid-December. No results were immediately announced by the operator. Also drilled in the Inlet was Marathon's 6 Beaver Creek Unit, an infill gas completion that was Alaska's only well to reach total depth below 15,000 ft in 1982.

Rig employment tapered off sharply in 1982. Though Hughes Tool Co counts show a yearly average of 22 rigs per week—only 1.5 less than in 1981—on a monthly basis figures dropped. In January, 34 rigs were running or under contract. Five others were idle and four more were under construction or enroute to Alaska. As the year ended, there were 43 rigs in Alaska, 19 of which were active. Of the 38 land rigs, four workover units and one semisubmersible, 17 land rigs, one workover rig and the semisubmersible were drilling. The rig count excludes equipment permanently assigned to Cook Inlet offshore platforms and used intermittently.

semisubmersible. The Sedco 708 was also used on the North Aleutian Shelf COST well and was scheduled to drill another COST well in the remote Navarin Basin of the Bering Sea in the summer of 1983.

In Cook Inlet Basin, ARCO began a three-well exploratory drilling program on the Kenai Peninsula under an agreement with Cook Inlet Region, Inc. The drilling follows three winters of seismic work on the native-owned lands. The initial wildcat, spudded in December, was the first exploratory drilling on the peninsula by ARCO since Richfield Oil Co drilled the Swanson River oil discovery in 1957.

Offshore in Cook Inlet, the new Penrod jackup #96 was brought in to drill the first rank wildcat tests in several years. Phillips Petroleum Co's initial well, #1A

Development Operations

Field development work continued at a high level during 1982, with the pressure maintenance projects at Prudhoe Bay and infill drilling in Kuparuk Field providing the bulk of the work. Other activity included Conoco's Milne Point drilling program on the North Slope and Marathon Oil's development of the natural gas zone in the Beaver Creek oil field on the Kenai Peninsula. Gas deliveries to the pipeline serving the Anchorage area were scheduled for early 1983.

The first step toward development of the Sag Delta/Duck River "Endicott" reservoir was initiated in September. A proposed operating plan was submitted to the U.S. Army Corps of Engineers for review by a group of 10 leaseholders. Under the plan, completion of the

illed in the Bering
ederal lease sales
Alaska Inc and
ntures in the Gulf
vely, during early
ge, semisubmersi-
2 may have been
as suspended in
76 ft. The Tern
out 20 miles east
ntly held by Shell
s were disclosed,
gement for Shell
n of the first well
second well was
drilled by ARCO
anies, #2 Norton
ant. Drilled off-
ant" natural gas
ording to Mineral
eutian Shelf was
ember. The third
rilled unsuccess-
the Sedco 708

Drilling Costs

Gas

Estimated Cost

760,440
55,522,359
236,707,098
372,761,341
133,357,844
14,166,841
613,275,923
618,716,000
575,793,329
463,782,888
263,483,387
0-12499
0-14999
0-09999

**1982-1981 U.S. Drilling
Comparison—Five Leading Operators
Ranked by Total Completions
Alaska**

Operator	Year	New Field Wildcats				All Wells Drilled			
		Oil	Gas	Dry	Total	Oil	Gas	Dry	Total
1 ARCO	1982	0	0	1	1	111	0	8	119
	1981	0	0	1	1	55	0	2	57
2 Sohio	1982	0	0	1	1	56	0	2	58
	1981	0	0	1	1	63	0	3	66
3 Union Oil of California	1982	0	0	1	1	7	8	1	16
	1981	0	0	0	0	13	0	2	15
4 Chevron	1982	0	0	5	5	2	0	5	7
	1981	0	0	2	2	4	1	2	7
5 Amoco	1982	0	0	2	2	2	0	3	5
	1981	0	0	0	0	3	0	0	3

appear to be poor. Substantial interest was expressed in the geothermal tracts, but at year-end, no decision had been made by the Department on whether to offer the tracts for competitive leasing.

For the third straight year, the Alaska Oil and Gas

Conservation Commission issued a record number of drilling permits. The 219 permits exceeded by 31 the previous year's high of 188, an increase of 17 percent. Of the 219 permits, 188 were for development locations, 16 for exploratory locations and 15 for service operations.

1982 U.S. Drilling Alaska Well Completions by Quad

Alaska

Quad	NFW				OEXP					All Wells					
	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage
Beechey Point	0	0	3	3	37,305	0	0	2	2	24,330	168	0	11	179	1,802,926
Chandler Lake	0	0	1	1	11,512	0	0	0	0	0	0	0	1	1	11,512
Flaxman	0	0	1	1	13,050	0	0	0	0	0	0	0	1	1	13,050
Gulkana	0	0	1	1	5,677	0	0	0	0	0	0	0	1	1	5,677
Harrison Bay	0	0	2	2	22,330	0	0	1	1	6,625	0	0	3	3	28,955
Kenai	0	0	2	2	14,659	0	0	0	0	0	4	9	2	15	117,776
Kilik River	0	0	1	1	12,492	0	0	0	0	0	0	0	1	1	12,492
Point Lay	0	0	1	1	8,212	0	0	0	0	0	0	0	1	1	8,212
Tyonek	0	0	1	1	11,650	0	0	0	0	0	0	0	1	1	11,650
Total	0	0	13	13	136,887	0	0	3	3	30,955	172	9	22	203	2,012,250

Alaska Offshore

Davidson Bank	0	0	0	0	0	0	0	0	0	0	0	0	1	1	14,626
Kenai	0	0	0	0	0	0	0	1	1	9,519	8	0	2	10	64,573
St. Michael	0	0	0	0	0	0	0	0	0	0	0	0	1	1	14,689
Total	0	0	0	0	0	0	0	1	1	9,519	8	0	4	12	94,088

was canceled for lack of industry interest. The next sale for the area is now scheduled for early 1991.

The presale process for OCS Sale #107 (Navarin Basin), scheduled for 1988, continued and if the sale is held it would be the second offering in the area. The first sale, #83 held in 1984, resulted in the issuance of 163 leases. Leaseholders there, however, have been enjoined from further drilling activity.

The state proposed two versions of a new five-year oil and gas leasing program for the years 1987-1991. Alternative A would follow the state's past practice of holding three sales per year, while Alternative B, which the state said was developed in response to the falling price of oil and reductions in the budgets of state agencies and exploration departments of major oil companies, would offer two sales per year. The state said it would announce which alternative it would adopt in 1987.

Predictions that state oil and gas lease sales in 1986 would draw only moderate interest proved correct: Sale #48 (Kuparuk Uplands) and Sale #48A (Mikkelson), both held in February, sold 54 and 11 tracts, respectively. High bids for the sales, which offered offshore state lands near the Kuparuk River and offshore lands near Mikkelson Bay, totaled less than \$3 million.

State Oil & Gas Lease Sale #49 (Cook Inlet) also attracted only moderate interest, with high bonus bids totaling under \$1 million for 98 tracts. The sale offered offshore acreage throughout Cook Inlet and onshore acreage as far south as Anchor Point. In conjunction with Sale #49, the state held its second geothermal lease sale ever, awarding leases on one of two tracts offered on the south slope of Mount Spur about 40 miles west of Tyonek.

Two other proposed 1986 state lease sales were rescheduled during the year. The decisions to reschedule Beaufort Sea Sale #52 (now set for January 1989), and to combine acreage contained in Nechelik Sale #52A with lands offered in Kuparuk Uplands Sale #54 (scheduled for January 1988) were made for a variety of reasons. Boundary disputes between the state and the federal government, an ownership dispute between the state and a Native corporation and uncertainty regarding the costs of developing the state's submerged lands all contributed to rescheduling the sales.

Two state lease sales, meanwhile, were scheduled for 1987. January's Sale #51 (Prudhoe Bay Uplands) is expected to draw only moderate interest. However, Sale #50 (Camden Bay), set for June, is expected to draw significant interest in that the acreage to be offered lies north of the Arctic National Wildlife Refuge. Sale #50's schedule date is tentative as the state and federal governments continue negotiations concerning the location of Alaska's territorial sea boundary and the seaward boundary of ANWR.

Production

The North Slope's third field to go on production fell victim to the drastic decline in oil prices when Conoco Inc shut down production at Milne Point

Alaska

New Field Wildcats

	Oil	Gas	Dry	Total	Footage
1986	0	0	2	2	20,557
1985	0	0	17	17	164,613
1984	0	0	18	18	189,125
1983	0	0	4	4	46,283
1982	1	0	12	13	149,906
1981	0	0	14	14	139,112
1980	0	0	23	23	242,086
1979	0	1	15	16	171,908
1978	0	1	12	13	151,817
1977	1	0	21	22	247,028

Other Exploratory Wells

1986	0	0	2	2	18,738
1985	0	0	5	5	53,579
1984	1	0	5	6	55,706
1983	0	0	1	1	13,060
1982	0	0	3	3	33,849
1981	0	1	1	2	12,385
1980	0	0	0	0	0
1979	0	0	1	1	7,028
1978	2	0	1	3	24,391
1977	0	0	0	0	0

Development Wells

1986	163	3	15	181	1,694,335
1985	173	5	7	185	1,603,524
1984	160	0	7	167	1,429,312
1983	144	1	3	148	1,413,403
1982	160	9	9	178	1,690,535
1981	138	2	6	146	1,454,856
1980	117	3	6	126	1,249,737
1979	75	3	2	80	747,261
1978	63	3	0	66	580,610
1977	43	4	6	53	515,543

All Wells Drilled for Oil and Gas

1986	163	3	19	185	1,733,630
1985	173	5	29	207	1,821,716
1984	161	0	30	191	1,674,143
1983	144	1	8	153	1,472,746
1982	161	9	24	194	1,874,290
1981	138	3	21	162	1,606,353
1980	117	3	29	149	1,491,823
1979	75	4	18	97	926,197
1978	65	4	13	82	756,818
1977	44	4	27	75	762,571

1986 "As Reported" Well Completions

NFW	0	0	3	3	28,591
OEXP	1	0	2	3	31,816
Dev.	204	4	15	223	2,018,246
All	205	4	20	229	2,078,653

**1986-1985 Comparison
Permits
Alaska**

	NFW	1986 OEXP	Dev.	Total	1985 Total	% Change
Alaska	0	3	164	167	279	(40.1)
Alaska Offshore	9	0	2	11	34	(67.6)
Total	9	3	166	178	313	(43.1)

in the tanks from previous shipments and is treated in facilities owned by Alyeska in Valdez before being dumped into the bay. The EPA, alleging that the ballast water contains chemical wastes not eliminated by the treatment, filed suit against Alyeska asking for records, shipping documents and access to past and present Alyeska employees (for sworn testimony) in order to investigate the procedure.

Alyeska claimed that EPA overstepped its authority when it subpoenaed the records under the Federal Toxic Substance Control Act, since the initial investigation was begun under the Federal Clean Water Act. Alyeska earlier had offered to make employees available to EPA if the request came under the Clean Water Act, which does not allow sworn testimony. As the year ended, Alyeska was ordered by a federal judge to release the records and make the employees accessible to EPA, but the company appealed that ruling and the matter is still pending.

A trans-Alaska gas pipeline proposed by a group of investors headed by former Governor Walter Hickel was still in the planning stages during 1986. A contract to prepare a draft environmental impact statement

for the project was awarded by Yukon Pacific Corp, which during the year added two former Arco executives, Robert O. Anderson and Glenn Simpson, to its board of directors.

The company wants to build a pipeline to ship North Slope natural gas to one of two proposed sites in south-central Alaska. Plans call for the gas to be marketed to Pacific Rim countries.

Two transportation milestones were reached in 1986: the 6,000th tanker carrying North Slope crude departed from Valdez early in the year; and, according to Alyeska Pipeline Service, the five-billionth bbl of oil was shipped through the line in mid-September. The line shortly thereafter suffered a 32-hour shutdown as pieces of a scraper pig became lodged in the internal piping of Pump Station #10. The problem was resolved without any oil spillage and operations resumed at a full capacity of approximately 1.8 million bbls per day.

Arco Alaska during the year spent \$15 million to install 60 miles of pipeline in Kuparuk field for its new production facility. Alyeska spent a similar amount to reline the pipes in its ballast water treatment

**1986-1985 Comparison
Starts
Alaska**

	NFW	1986 OEXP	Dev.	Total	1985 Total	% Change
Alaska	0	8	166	174	267	(34.8)
Alaska Offshore	4	0	4	8	28	(71.4)
Total	4	8	170	182	295	(37.6)

plant. Alyeska officials said the project was part of planned maintenance and not in response to investigations by EPA into ballast water discharges.

Processing

Two new refineries were planned for Alaska in 1986, one near Fairbanks and a second near Valdez.

Arctic Energy announced in August that it was proceeding with plans to build a \$10 million refinery in the town of Fox, near Fairbanks. The company planned to buy crude oil from Chevron USA and others in order to produce 2,500 bbls per day of diesel and jet fuel. At year-end, the refinery was still in the planning stages.

The second refinery planned for Alaska was proposed by California-based Alaska Pacific Refinery Inc. That company plans to build a 100,000-bbl-per-day refinery near Valdez to produce jet fuel, high-octane unleaded gasoline, asphalt and other products primarily for export to Pacific Rim countries. When completed, it will be the largest refinery in the state and the first in the country to export refined products. Construction is scheduled to begin in 1987.

An offer made by the state in February to sell 18,000 bbls per day of state royalty oil received no takers, which, in light of the uncertainty of oil prices, did not surprise state officials.

MAPCO Petroleum in November was engaged in cleanup operations at its North Pole refinery as workers disposed of about 100,000 gallons of various oil products that allegedly seeped into the ground over a period of years. The spill, which was not believed to have contaminated local water supplies, was blamed on leaking concrete sumps designed to collect oil, water and other wastes from refining operations.

Arctic National Wildlife Refuge

One of the most closely watched developments in Alaska during 1986 was the debate over the future of the Arctic National Wildlife Refuge, specifically the refuge's 1.5 million-acre coastal plain.

The refuge was created and designated as a "wildlife range" by the secretary of the interior during the Eisenhower administration. It was subsequently doubled in size by the Alaska National Interests Lands Conservation Act to its present configuration of 19.3 million acres, making it the second largest wildlife sanctuary in the country. That act also decreed that eight million acres within the refuge be classified as wilderness and that a study of the refuge's coastal plain be done by the Interior Department to determine its oil and gas potential. Interior also was charged with making a recommendation as to whether the coastal plain should be opened to oil and gas leasing.

Interior in its draft report of that study released in November called the coastal plain "clearly one of the most outstanding oil and gas areas remaining in the U.S.," recommending the coastal plain be opened for hydrocarbon leasing. The report estimates there is a 95 percent chance that the coastal plain contains more than 4.8 billion bbls of oil, and a five percent chance

1986 Completion Date Statistics Operator Summary Alaska

		Oil	Gas	Dry	Total
1 Arco Alaska	1986	108	0	6	114
	1985	137	0	11	148
2 Standard Alaska	1986	33	0	2	35
	1985	0	0	0	0
3 Sohio Petroleum	1986	15	0	1	16
	1985	25	0	2	27
4 Amoco Production	1986	3	0	2	5
	1985	1	0	4	5
5 Union Oil	1986	3	1	1	5
	1985	4	2	1	7
6 Chevron USA	1986	0	2	2	4
	1985	1	3	1	5
7 Amerada Hess	1986	0	0	2	2
	1985	0	0	0	0
7 Shell Oil	1986	1	0	1	2
	1985	3	0	3	6
7 Texaco Inc	1986	0	0	2	2
	1985	0	0	1	1

that it holds more than 29.4 billion bbls of oil in place.

Pro-development forces praised the report and agreed that the area should be opened, arguing that new fields need to be discovered and developed to reduce the nation's dependence on foreign oil. The pro-development groups also pointed out that the coastal plain is a small percentage of the refuge's total acreage and that the oil industry has proven it can drill in environmentally sensitive areas, citing Prudhoe Bay as an example.

Virtually every major environmental organization opposed Interior's recommendation to open the plain for leasing, arguing that it would jeopardize the future of the porcupine caribou herd, which uses the coastal plain as a calving ground. Those groups also contend that industrial activity in the region would alter the way of life of local residents, from one based on subsistence to one based on cash, disrupting traditional Native values. Finally, the groups contend that oil and gas development in Prudhoe Bay and its effect on caribou herds there cannot be compared to the possible effect such activity would have on the refuge's porcupine caribou herd, since it's much larger.

Alaska Governor Steve Cowper and most Native leaders in the state for the most part are in favor of opening the coastal plain for exploration and development. A public opinion poll commissioned by the Alaska Oil and Gas Association indicated that Alaskans, by a margin of seven-to-one, favor exploration and development of the plain.

The Alaskan coal faced competition from lower-priced Canadian and Australian coal, but a 15 percent reduction in the price of the Alaska coal—to \$44 per ton—and quick repair of railroad tracks damaged by floods secured the new contract, which runs to 1988. That contract is subject to yearly price reviews. The coal is supplied by Usibelli Coal Co at Healy and is shipped to Seward by the Alaska Railroad. Since 1984, one million tons of coal have been shipped to Korea. The Alaska Division of Mining and Geological and Geophysical Survey has estimated the state's coal

reserves at 5.5 billion short tons, equal to about half the nation's estimated reserves.

An agreement between two Native groups and the Alaska Power Authority cleared the way for an economic feasibility study to get under way involving the first geothermal power plant in the state, near Unalaska/Dutch Harbor. The study is designed to examine the potential of the geothermal reservoir of the Mushkin Volcano to produce 13 megawatts of power. Falling state revenues threatened the continuation of the study as the year ended. □

1986 Completion Date Statistics Alaska Well Completions by Quad

Quad	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage	Oil	Gas	Dry	Total	Footage
Barter Island	0	0	0	0	0	0	0	0	0	0	0	0	1	1	15,193
Beechey Point	0	0	0	0	0	0	0	1	1	11,921	138	0	9	147	1,438,243
Harrison Bay	0	0	0	0	0	0	0	1	1	6,817	18	0	4	22	166,695
Kenai	0	0	0	0	0	0	0	0	0	0	0	1	0	1	7,017
Tyonek	0	0	0	0	0	0	0	0	0	0	0	2	1	3	17,097
Total	0	0	0	0	0	0	0	2	2	18,738	156	3	15	174	1,644,245
As Reported Total	0	0	0	0	0	1	0	2	3	31,816	193	3	15	211	1,973,541
Alaska Offshore															
Beechey Point	0	0	1	1	12,575	0	0	0	0	0	0	0	2	2	27,558
Harrison Bay	0	0	1	1	7,982	0	0	0	0	0	0	0	1	1	7,982
Kenai Offshore	0	0	0	0	0	0	0	0	0	0	7	0	1	8	53,845
Total	0	0	2	2	20,557	0	0	0	0	0	7	0	4	11	89,385
As Reported Total	0	0	3	3	28,591	0	0	0	0	0	12	1	5	18	141,112

ALASKA OIL PRICES AND PRODUCTION

	Prudhoe Bay				Kuparuk			Milne Point				Lisburne			
	WHP	Exh B	In-value	(000 Bbl)	WHP	In-value	(000 Bbl)	WHP	Exh B	In-value	(000 Bbl)	WHP	Exh B	In-value	(000 Bbl)
85: 1	\$17.0	\$17.1	\$16.3	43,993.1	\$16.2	\$15.8	5,297.2								
2	\$16.7	\$17.0	\$16.0	45,234.2	\$15.8	\$15.4	5,753.8								
3	\$16.8	\$17.0	\$16.1	49,430.0	\$16.0	\$15.6	6,581.1								
4	\$16.9	\$17.2	\$16.2	45,448.6	\$16.1	\$15.7	6,438.7								
5	\$16.9	\$17.2	\$16.2	50,053.1	\$16.0	\$15.6	6,771.3								
6	\$17.0	\$17.2	\$16.3	48,340.8	\$15.7	\$15.3	6,380.7								
7	\$16.8	\$17.1	\$16.1	47,943.0	\$15.4	\$15.0	6,724.5								
8	\$16.8	\$17.1	\$16.1	47,064.3	\$15.3	\$14.9	7,240.0								
9	\$16.9	\$17.1	\$16.2	47,552.9	\$15.6	\$15.2	7,132.7								
10	\$16.9	\$17.1	\$16.2	48,576.0	\$15.7	\$15.3	7,255.1								
11	\$16.9	\$17.1	\$16.2	45,883.5	\$16.1	\$15.7	6,429.4	\$14.1	\$14.3		205.5				
12	\$17.6	\$17.8	\$16.9	48,428.9	\$17.1	\$16.7	6,794.4	\$14.4	\$14.7		498.4				
86: 1	\$15.4	\$16.2	\$14.7	48,666.2	\$15.7	\$15.3	7,194.4	\$12.6	\$13.0		529.8				
2	\$10.9	\$11.9	\$10.2	44,385.0	\$9.5	\$9.1	6,937.9	\$8.3	\$8.7		478.8				
3	\$7.5	\$7.8	\$6.8	47,256.1	\$5.4	\$5.0	8,076.7	\$4.0	\$4.7		548.6				
4	\$5.8	\$6.1	\$5.1	44,391.3	\$4.1	\$3.7	8,366.9	\$4.5	\$5.0		479.6				
5	\$4.9	\$5.1	\$4.2	48,934.7	\$4.3	\$3.9	8,461.1	\$2.5	\$2.6		396.8				
6	\$4.4	\$4.6	\$3.7	46,272.0	\$4.5	\$4.1	8,099.9								
7	\$3.1	\$3.4	\$2.4	48,821.7	\$2.8	\$2.4	8,139.9								
8	\$3.7	\$4.2	\$3.0	46,763.1	\$3.4	\$3.0	7,479.2					\$3.7	\$4.2	\$3.0	175.8
9	\$5.6	\$5.7	\$4.9	44,422.4	\$5.5	\$5.1	7,062.3					\$5.6	\$5.7	\$4.9	7.3
10	\$5.7	\$5.8	\$5.0	49,807.0	\$5.3	\$4.9	8,010.8					\$5.7	\$5.8	\$5.0	118.4
11	\$5.6	\$5.9	\$5.1	47,031.4	\$5.5	\$5.1	7,745.5					\$5.8	\$5.9	\$5.1	298.7
12	\$6.9	\$7.3	\$6.2	45,850.9	\$6.6	\$6.2	8,471.5					\$6.9	\$7.3	\$6.2	675.0
87: 1	\$8.8	\$8.9	\$8.1	51,824.3	\$9.1	\$8.7	9,261.9					\$8.8	\$8.9	\$8.1	1,409.3
2	\$9.8	\$10.0	\$9.1	42,603.7	\$9.1	\$8.7	8,037.5					\$9.8	\$10.0	\$9.1	1,192.3
3	\$10.0	\$10.1	\$9.3	50,474.3	\$9.4	\$9.0	9,196.7					\$10.0	\$10.1	\$9.3	1,293.7
4	\$10.8	\$11.0	\$10.1	49,711.5	\$10.0	\$9.6	8,767.3					\$10.8	\$11.0	\$10.1	1,177.8
5	\$11.0	\$11.2	\$10.3	51,031.9	\$10.4	\$10.0	9,030.6					\$11.0	\$11.2	\$10.3	1,325.9
6	\$11.6	\$11.6	\$10.9	46,381.1	\$10.6	\$10.2	8,806.2					\$11.6	\$11.6	\$10.9	1,413.8
7	\$12.2	\$12.3	\$11.5	48,170.9	\$11.4	\$11.0	8,340.7					\$12.2	\$12.3	\$11.5	1,414.6
8	\$12.5	\$12.9	\$11.8	49,775.7	\$12.0	\$11.6	8,131.8					\$12.5	\$12.9	\$11.8	1,240.1

1-30 46.82

8.867 in 1/88

ALASKA OIL PRICES AND PRODUCTION

	Prudhoe Bay				Kuparuk			Milne Point			Lisburne				
	WHP	Exh B	In-value	(000 Bbl)	WHP	In-value	(000 Bbl)	WHP	Exh B	In-value	(000 Bbl)	WHP	Exh B	In-value	(000 Bbl)
81: 7	\$22.7	\$23.4	\$22.1	47,116.1											
8	\$22.7	\$23.0	\$22.0	47,124.2											
9	\$22.0	\$22.3	\$21.4	45,765.4											
10	\$22.0	\$22.2	\$21.4	46,917.3											
11	\$22.1	\$22.2	\$21.4	45,997.6											
12	\$21.8	\$21.9	\$21.2	46,763.3	\$19.7	\$19.3	1,091.5								
82: 1	\$21.2	\$21.5	\$20.5	47,980.7	\$19.7	\$19.3	2,503.6								
2	\$19.5	\$20.1	\$18.8	43,467.6	\$19.6	\$19.2	2,219.7								
3	\$18.4	\$18.8	\$17.7	47,439.8	\$18.0	\$17.6	2,856.8								
4	\$18.7	\$19.0	\$18.1	45,811.9	\$17.7	\$17.3	2,757.1								
5	\$18.9	\$19.0	\$18.3	47,745.2	\$17.9	\$17.5	2,896.6								
6	\$20.4	\$20.9	\$19.7	44,958.5	\$17.9	\$17.5	2,767.5								
7	\$20.4	\$21.0	\$19.7	48,037.7	\$17.8	\$17.4	2,680.0								
8	\$20.4	\$21.0	\$19.8	47,460.6	\$17.9	\$17.5	2,711.8								
9	\$20.4	\$20.9	\$19.7	46,216.7	\$17.7	\$17.3	2,669.0								
10	\$20.2	\$20.7	\$19.6	47,820.6	\$18.0	\$17.6	2,729.4								
11	\$19.8	\$20.1	\$19.2	45,223.3	\$18.5	\$18.1	2,791.0								
12	\$19.2	\$19.4	\$18.6	47,105.2	\$18.0	\$17.6	2,795.5								
83: 1	\$18.3	\$18.7	\$17.6	48,244.5	\$17.8	\$17.4	3,197.0								
2	\$17.4	\$17.7	\$16.8	43,167.5	\$16.6	\$16.2	2,838.7								
3	\$17.3	\$17.6	\$16.7	48,504.2	\$16.2	\$15.8	3,017.4								
4	\$17.3	\$17.5	\$16.6	46,543.9	\$16.2	\$15.8	2,966.8								
5	\$17.3	\$17.6	\$16.7	45,955.5	\$16.2	\$15.8	3,394.0								
6	\$17.4	\$17.6	\$16.7	45,365.2	\$16.0	\$15.6	3,239.7								
7	\$17.5	\$17.8	\$16.8	47,456.5	\$16.5	\$16.1	3,671.3								
8	\$17.8	\$18.3	\$17.1	47,305.9	\$16.4	\$16.0	3,282.6								
9	\$17.8	\$18.3	\$17.1	46,681.0	\$16.7	\$16.3	3,426.8								
10	\$17.7	\$18.2	\$17.1	48,382.2	\$16.8	\$16.4	3,310.9								
11	\$17.6	\$18.0	\$16.9	45,952.7	\$16.8	\$16.4	3,686.7								
12	\$17.7	\$18.0	\$17.0	47,231.7	\$16.8	\$16.4	3,828.9								
84: 1	\$17.5	\$17.8	\$16.8	48,311.5	\$16.7	\$16.3	3,983.4								
2	\$17.6	\$18.0	\$16.9	45,089.7	\$16.6	\$16.2	3,810.6								
3	\$17.6	\$18.0	\$16.9	42,889.4	\$16.6	\$16.2	4,241.7								
4	\$17.7	\$18.1	\$17.0	47,766.3	\$16.2	\$15.8	3,352.2								
5	\$17.7	\$18.1	\$17.0	49,258.5	\$16.6	\$16.2	3,372.5								
6	\$17.7	\$18.1	\$17.0	44,619.1	\$16.7	\$16.3	3,290.8								
7	\$17.8	\$18.2	\$17.1	47,259.5	\$17.0	\$16.6	3,349.2								
8	\$17.8	\$18.2	\$17.1	45,459.1	\$16.6	\$16.2	3,169.2								
9	\$18.0	\$18.4	\$17.3	47,677.5	\$16.9	\$16.5	3,359.3								
10	\$17.9	\$18.3	\$17.3	47,866.9	\$16.9	\$16.5	4,030.4								
11	\$18.0	\$18.2	\$17.3	46,779.7	\$17.1	\$16.7	4,922.3								
12	\$17.5	\$17.6	\$16.8	45,942.3	\$16.8	\$16.4	5,631.5								

THE ALASKA REPORT

RIGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Brinkerhoff Drlg. Co.				
National 110	36	18,500	Put River B-5 W.O.	BP Alaska
Oilwell 96	59	16,000	West Sak River #7	ARCO
National T20	31	7,000	South Barrow #16	Husky
Challenger Drlg. Co.				
National 110	49	16,000	Tiglukpuk #1	Chevron
Miller & Miller Auctioneers				
National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drlg. Co.				
National 110	162	17,000	Pt. Thomson U. #2	Exxon
Nabors Alaska Drlg. Co.				
Emsco A-800-83	1	16,000	South Meade Test #1	Husky
National 110	25	19,000	Drew Point Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Put River C-7 W.O.	BP Alaska
Parker Drilling Co.				
National 130	95	25,000	Kugrua Test #1	Husky
National 130	96	25,000	Will move to North Kalikpik Test #1	Husky
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay NGI-11	ARCO
National 80	97	15,000	Sag Delta #4	BP Alaska
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000	147	20,000	Will move to W. Mikkelsen Bay St. #1	ARCO
Rowan Drilling Co.				
National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	West Sak 25548 #11	BP Alaska
Turbine Electric	34	20,500	Prudhoe Bay DS 4-11	ARCO
Turbine Electric	35	20,500	Prudhoe Bay DS 1-15	ARCO
U. S. Navy Department				
Cardwell	3	**5,000	Stacked @ NPRA	

NORTHERN GULF OF ALASKA

ODECO				
Ocean Ranger Semisubmersible		25,000	Lower Cook Inlet on Standby	
Emsco C-3 Type II Draw Works				
ODECO				
Ocean Bounty Semisubmersible		25,000	OCS . 0032 #1	Texaco
EXXON				
Alaskan Star Semisubmersible		30,000	OCS Y-0072 #1	North Star Drilling
<u>LOWER COOK INLET</u>				
JAPAN DRILLING CO., LTD.				
White Dragon II & III Semisubmersibles		30,000	May move from Japan to Lower Cook Inlet	
GLOBAL MARINE				
Glomar Grand Isle Drillship			May move to Lower Cook Inlet	
Glomar Conception Drillship			May move to Lower Cook Inlet	
Glomar Tasman Drillship			May move to Lower Cook Inlet	
DIAMOND M DRILLING				
Diamond M Dragon Drillship			May move to Lower Cook Inlet	Marathon

Continued on page 2...

Rig List, ContinuedCOOK INLET BASIN

Amoco Production Co.					
Brewster N-7 (Platform Bruce)				On Platform - idle	
Cont'l. Emsco GB-250 5/48				On Platform - idle	
Atlantic Richfield Company					
National 1320 DE 13/58		15,000+		On Platform - TBU K-23	Union/ARCO
Cont'l. Emsco Electrohoist 11/80		15,000		On Platform - idle	
Brinkerhoff Drilling Company					
Wilson 120	58	12,500		Stump Lake Unit #41-33	Chevron/Standby
Oilwell 52T (Helicopter Rig)	60	10,000*		Simpco Kaloa #1	Simasko
Oilwell 96	43	16,000		Moose Point U. #1	Amarex
Marathon Oil Company					
National 1320 UE 10/	76	20,000		On Platform - TBU D-7RD	Union/Marathon
National 1320 UE 10/	77	20,000		On Platform - Deactivated	
Mobil Oil Company					
Wilson 120 H 9/				On Granite Point Platform	Mobil
Parker Drilling Company					
TBA 2000	150	20,000		Platform Baker - Standby	AMOCO/Parker
TBA 2000	152	20,000		Platform Anna - GPS 18742-17	AMOCO/Parker
Shell Oil Company					
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - MGS C-44-14RD	Shell
National 110/8		15,000		Shell Platform A - MGS A-12-1	Shell
Union Oil Co. of California					
National 1320 DE 12/	54	12,500+		On Platform - idle	
National 1320 DE 12/	55	15,000+		On Platform - TBU G-17RD	Union
Oilwell 860 on Monopod	56	15,000+		On Platform - idle	

- 1/ On Texaco - Superior Platform A***
- 2/ On Phillips North Cook Inlet Platform
- 3/ On Amoco's Platform Baker (B)
- 4/ On Amoco's Platform MGS Dillion (D)
- 5/ On Amoco's Granite Point Platform Bruce
- 6/ On Shell's MGS Platform "C"
- 7/ On Amoco's Platform Anna (A)

- 8/ On Shell's MGS Platform A
- 9/ On Mobil's Granite Point Platform
- 10/ On Marathon's Dolly Varden Platform
- 11/ On ARCO's Platform Spark
- 12/ On Union's Grayling Platform
- 13/ On ARCO's King Platform

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

THE ALASKA REPORT

IGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
rinkerhoff Drig. Co.				
National 110	36	18,500	Put River B-4 W.O.	BP Alaska
Oilwell 96	59	16,000	West Sak River #10	ARCO
National 7	31	7,000	South Barrow #17	Husky
hallengere Drig. Co.				
National 110	49	16,000	Tiglukpak #1	Chevron
Miller & Miller Auctioneers				
National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
offland Brothers Drig. Co.				
National 110	162	17,000	Pt. Thomson U. #2	Exxon
abors Alaska Drig. Co.				
Emsco A-800-83	1	16,000	South Meade Test #1	Husky
National 110	25	19,000	Drew Point Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Put River C-2 W.O.	BP Alaska
arker Drilling Co.				
National 130	95	25,000	Kugrua Test #1	Husky
National 130	96	25,000	North Kalikpik Test #1	Husky
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay NGI-11	ARCO
National 80	97	15,000	Sag Delta #4	BP Alaska
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000	147	20,000	W. Mikkelsen Bay St. #1	ARCO
owan Drilling Co.				
National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	West Sak 25645 #9	BP Alaska
Turbine Electric	34	20,500	Prudhoe Bay DS 4-11	ARCO
Turbine Electric	35	20,500	Prudhoe Bay DS 1-16	ARCO
J. S. Navy Department				
Cardwell	3	**5,000	Stacked @ NPRA	

NORTHERN GULF OF ALASKA

DECO				
Ocean Bounty Semisubmersible		25,000	Seward on Standby	
EXXON				
Alaskan Star Semisubmersible		30,000	OCS Y-0072 #1	North Star Drilling
<u>LOWER COOK INLET</u>				
DECO				
Ocean Ranger Semisubmersible		25,000	Lower Cook Inlet on Standby	
Emsco C-3 Type II Draw Works				
JAPAN DRILLING CO., LTD.				
White Dragon II & III Semisubmersible		30,000	May move from Japan to Lower Cook Inlet	
GLOBAL MARINE				
Glomar Grand Isle Drillship			May move to Lower Cook Inlet	
Glomar Conception Drillship			May move to Lower Cook Inlet	
Glomar Tasman Drillship			May move to Lower Cook Inlet	
Glomar Atlantic			May move to Lower Cook Inlet	
MOND M DRILLING				
Diamond M Dragon Drillship			Will move to Lower Cook Inlet	Marathon
WODECO				
Western Offshore IX Drillship			May move to Lower Cook Inlet	

Continued on page 2

Rig List, ContinuedCOOK INLET BASIN

Amoco Production Co.				On Platform - idle	
Brewster N-7 (Platform Bruce)				On Platform - idle	
Cont'l. Emsco GB-250 5/4B					
Atlantic Richfield Company					
National 1320 DE 13/58		15,000+		On Platform - TBU K-23	Union/ARCO
Cont'l. Emsco Electrohoist 11/80		15,000		On Platform - idle	
Brinkerhoff Drilling Company					
Wilson 120	58	12,500		Stump Lake Unit #41-33	Chevron
Oilwell 52T (Helicopter Rig)	60	10,000*		Simpco Kaloa #1	Simasko
Oilwell 96	43	16,000		Moose Point U. #1	Amarex
Marathon Oil Company					
National 1320 UE 10/	76	20,000		On Platform - TBU D-7RD	Union/Marathon
National 1320 UE 10/	77	20,000		On Platform - Deactivated	
Mobil Oil Company					
Wilson 120 H 9/				On Granite Point Platform	Mobil
Parker Drilling Company					
TBA 2000	150	20,000		Platform Baker - Standby	AMOCO/Parker
TBA 2000	152	20,000		Platform Anna - GPS 18742 MUC I-3	AMOCO/Parker
Shell Oil Company					
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - MGS C-44-14RD	Shell
National 110/8		15,000		Shell Platform A - MGS A-12-1	Shell
Union Oil Co. of California					
National 1320 DE 12/	54	12,500+		On Platform - idle	
National 1320 DE 12/	55	15,000+		On Platform - TBU G-17RD	Union
Oilwell 860 on Monopod	56	15,000+		On Platform - idle	

- 1/ On Texaco - Superior Platform A***
- 2/ On Phillips North Cook Inlet Platform
- 3/ On Amoco's Platform Baker (B)
- 4/ On Amoco's Platform MGS Dillion (D)
- 5/ On Amoco's Granite Point Platform Bruce
- 6/ On Shell's MGS Platform "C"
- 7/ On Amoco's Platform Anna (A)

- 8/ On Shell's MGS Platform A
- 9/ On Mobil's Granite Point Platform
- 10/ On Marathon's Dolly Varden Platform
- 11/ On ARCO's Platform Spark
- 12/ On Union's Grayling Platform
- 13/ On ARCO's King Platform

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

THE ALASKA REPORT

RIGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Brinkerhoff Drlg. Co.				
National 110	36	18,500	Prudhoe Bay Unit B-7	Sohio Petroleum
Oilwell 96	59	16,000	West Sak River #8	ARCO
National T20	31	7,000	South Barrow #17	Husky
Challenger Drlg. Co.				
National 110	49	16,000	Tiglukpak #1	Chevron
Miller & Miller Auctioneers				
National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drlg. Co.				
National 110	162	17,000	Pt. Thomson U. #2	Exxon
Nabors Alaska Drlg. Co.				
Emsco A-8000-83	1	16,000	South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay GC-3A	Sohio Petroleum
Parker Drilling Co.				
National 130	95	25,000	Kugrua Test #1	Husky
National 130	96	25,000	North Kalikpak Test #1	Husky
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay DS 5-17	ARCO
National 80	97	15,000	Stacked @ Deadhorse on BP Central Pad	
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000	147	20,000	W. Mikkelsen Bay St. #1	ARCO
Rowan Drilling Co.				
National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	West Sak 25645 #9	Sohio Petroleum
Turbine Electric	34	20,500	Prudhoe Bay DS 4-13	ARCO
Turbine Electric	35	20,500	Prudhoe Bay DS 1-18	ARCO
U.S. Navy Department				
Cardwell	3	**5,000	Stacked @ NPRA	

NORTHERN GULF OF ALASKA

ODECO				
Ocean Bounty Semisubmersible		25,000	Seward on Standby	
EXXON				
Alaskan Star Semisubmersible		30,000	OCS Y-0035 #1	North Star Drilling

LOWER COOK INLET

ODECO				
Ocean Ranger Semisubmersible		25,000	Lower Cook Inlet on Standby	
Emsco C-3 Type II Draw Works				
JAPAN DRILLING CO., LTD.				
White Dragon II & III Semisubmersibles		30,000	May move from Japan to Lower Cook Inlet	
GLOBAL MARINE				
Glomar Grand Isle Drillship			May move to Lower Cook Inlet	
Glomar Conception Drillship			May move to Lower Cook Inlet	
Glomar Tasman Drillship			May move to Lower Cook Inlet	
Glomar Atlantic			May move to Lower Cook Inlet	
DIAMOND M DRILLING				
Diamond M Dragon Drillship			Will move to Lower Cook Inlet	Marathon
JECO				
Western Offshore IX Drillship			May move to Lower Cook Inlet	

Continued on page 6

THE ALASKA REPORT

Rig List, Continued

COOK INLET BASIN

Amoco Production Co.				On Platform - idle	
Brewster N-7 (Platform Bruce)				On Platform - idle	
Cont'l. Emsco GB-250 5/48					
Atlantic Richfield Company					
National 1320 DE 13/58		15,000+		On Platform - TBU K-23	Union/ARCO
Cont'l. Emsco Electrohoist 11/80		15,000		On Platform - idle	
Brinkerhoff Drilling Company					
Wilson 120	58	12,500		Stump Lake Unit #41-33	Chevron
Oilwell 52T (Helicopter Rig)	60	10,000*		Simpco Kaloa #1	Simasko
Oilwell 96	43	16,000		Stacked-Clam Gulch U. #1	Union/Standoy
Marathon Oil Company					
National 1320 UE 10/	76	20,000		On Platform - TBU D-15RD	Union/Marathon
National 1320 UE 10/	77	20,000		On Platform - Deactivated	
Mobil Oil Company					
Wilson 120 H 9/				On Granite Point Platform	Mobil
Parker Drilling Company					
TBA 2000	150	20,000		Platform Baker - Standby	AMOCO/Parker
TBA 2000	152	20,000		Platform Anna - GPS 18742 MUC 1-3	AMOCO/Parker
Shell Oil Company					
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - MGS C42-23	Shell
National 110/8		15,000		Shell Platform A - idle	
Union Oil Co. of California					
National 1320 DE 12/	54	12,500+		On Platform - idle	
National 1320 DE 12/	55	15,000+		On Platform - W. O. Status	Union
Oilwell 860 on Monopod	56	15,000+		On Platform - idle	

- 1/ On Texaco - Superior Platform A***
- 2/ On Phillips North Cook Inlet Platform
- 3/ On Amoco's Platform Baker (B)
- 4/ On Amoco's Platform MGS Dillion (D)
- 5/ On Amoco's Granite Point Platform Bruce
- 5/ On Shell's MGS Platform "C"
- 7/ On Amoco's Platform Anna (A)

- 8/ On Shell's MGS Platform A
- 9/ On Mobil's Granite Point Platform
- 10/ On Marathon's Dolly Varden Platform
- 11/ On ARCO's Platform Spark
- 12/ On Union's Grayling Platform
- 13/ On ARCO's King Platform

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

RIGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Brinkerhoff Drlg. Co.				
National 110	36	18,500	Prudhoe Bay Unit B-3A	Sohio Petroleum
Oilwell 96	59	16,000	West Sak River #8	ARCO
National T20	31	7,000	South Barrow #19	Husky
Challenger Drlg. Co.				
National 110	49	16,000	Tiglukpuk #1	Chevron
Miller & Miller Auctioneers				
National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drlg. Co.				
National 110	162	17,000	Pt. Thomson U. #2	Exxon
Nabors Alaska Drlg. Co.				
Emsco A-8000-83	1	16,000	South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay GC-3A	Sohio Petroleum
Parker Drilling Co.				
National 130	95	25,000	Kugrua Test #1	Husky
National 130	96	25,000	North Kalikpik Test #1	Husky
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay DS 6-2	ARCO
National 80	97	15,000	Stacked @ Deadhorse on BP Central Pad	
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000	147	20,000	W. Mikkelsen Bay St. #1	ARCO
Rowan Drilling Co.				
National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	Stacked @ Mukluk Yard	
Turbine Electric	34	20,500	Prudhoe Bay DS 4-14	ARCO
Turbine Electric	35	20,500	Prudhoe Bay PWDW 3-1	ARCO
U.S. Navy Department				
Cardwell	3	**5,000	Stacked @ NPRA	

RESURRECTION BAY - SEWARD

ODECO				
Ocean Bounty Semisubmersible		25,000	Seward on Standby	
ODECO				
Ocean Ranger Semisubmersible		25,000	Seward on Standby	
Emsco C-3 Type II Draw Works				

NORTHERN GULF OF ALASKA

EXXON				
Alaskan Star Semisubmersible		30,000	OCS Y-0035 #1	North Star Drilling
JAPAN DRILLING CO., LTD.				
White Dragon II & III Semisubmersibles		30,000	May move from Japan to Lower Cook Inlet	
GLOBAL MARINE				
Glomar Grand Isle Drillship			May move to Lower Cook Inlet	
Glomar Conception Drillship			May move to Lower Cook Inlet	
Glomar Tasman Drillship			May move to Lower Cook Inlet	
Glomar Atlantic			May move to Lower Cook Inlet	
DIAMOND M DRILLING				
Diamond M Dragon Drillship			Will move to Lower Cook Inlet	Marathon
ODECO				
Western Offshore IX Drillship			May move to Lower Cook Inlet	

Continued on page 2

THE ALASKA REPORT

Rig List. Continued

COOK INLET BASIN

Amoco Production Co.				On Platform - idle	
Brewster N-7 (Platform Bruce)				On Platform - idle	
Cont'l. Emsco GB-250 5/48					
Atlantic Richfield Company					
National 1320 DE 13/58		15,000+		On Platform - TBU K-2RD	Union/ARCO
Cont'l. Emsco Electrohoist 11/80		15,000		On Platform - idle	
Brierkerhoff Drilling Company					
Wilson 120	58	12,500		Stump Lake Unit #41-33	Chevron
Oilwell 52T (Helicopter Rig)	60	10,000*		Simpco Kaloa #1	Simasko
Oilwell 96	43	16,000		Stacked-Ciam Gulch U. #1	Union/Standby
Marathon Oil Company					
National 1320 UE 10/	76	20,000		On Platform - TBU D-15RD	Union/Marathon
National 1320 UE 10/	77	20,000		On Platform - Deactivated	
Mobil Oil Company					
Wilson 120 H 9/				On Granite Point Platform	Mobil
Parker Drilling Company					
TBA 2000	150	20,000		Platform Baker - Standby	AMOCO/Parker
TBA 2000	152	20,000		Platform Anna - GPS 18742 MUC 1-3	AMOCO/Parker
Shell Oil Company					
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - MGS C42-23	Shell
National 110/8		15,000		Shell Platform A - idle	
Union Oil Co. of California					
National 1320 DE 12/	54	12,500+		On Platform - idle	
National 1320 DE 12/	55	15,000+		On Platform - H. O. Status	Union
Oilwell 860 on Monopod	56	15,000+		On Platform - idle	

- | | |
|--|---|
| 1/ On Texaco - Superior Platform A*** | 8/ On Shell's MGS Platform A |
| 2/ On Phillips North Cook Inlet Platform | 9/ On Mobil's Granite Point Platform |
| 3/ On Amoco's Platform Baker (B) | 10/ On Marathon's Dolly Varden Platform |
| 4/ On Amoco's Platform MGS Dillion (D) | 11/ On ARCO's Platform Spark |
| 5/ On Amoco's Granite Point Platform Bruce | 12/ On Union's Grayling Platform |
| 6/ On Shell's MGS Platform "C" | 13/ On ARCO's King Platform |
| 7/ On Amoco's Platform Anna (A) | |

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

RIGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Brinkerhoff Drig. Co				
National T20	31	7,000	Stacked @ South Barrow #6	Husky
National 110	36	18,500	Prudhoe Bay Unit B-3A	Sohio Petroleum
Oilwell 96	59	16,000	Stacked @ West Sak River #12	ARCO
Challenger Drig. Co.				
National 110	49	16,000	Tiglukpuk #1	Chevron
Miller & Miller Auctioneers				
National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drig. Co.				
National 110	162	17,000	Point Thomson Unit #2	Exxon
Nabors Alaska Drig. Co.				
Emsco A-8000-83	1	16,000	Stacked @ South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay GC-3B	Sohio Petroleum
Parker Drilling Co.				
National 130	95	25,000	Moving to DEW Line - NPRA	Husky
National 130	96	25,000	Ikpikpuk Test Well #1	Husky
National 80	97	15,000	Stacked @ Duck Island #1	ARCO
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay DS 6-5	ARCO
TBA 2000	147	20,000	W. Mikkelsen Bay St. #1	ARCO
Rowan Drilling Co.				
National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	Will Move To Staines River #1	Mobil
Turbine Electric	34	20,500	Prudhoe Bay DS 7-1	ARCO
Turbine Electric	35	20,500	Will Move To West Bay State #1	ARCO
U.S. Navy Department				
Cardwell	3	**5,000	Stacked @ NPRA	

RESURRECTION BAY - SEWARD

ODECO				
Ocean Bounty Semisubmersible		25,000	Seward on Standby	
ODECO				
Ocean Ranger Semisubmersible		25,000	Seward on Standby	
Emsco C-3 Type II Draw Works				

NORTHERN GULF OF ALASKA

EXXON				
Alaskan Star Semisubmersible		30,000	OCS Y-0035 #1	North Star Drilling
JAPAN DRILLING CO., LTD.				
White Dragon II & III Semisubmersible		30,000	May move from Japan To Lower Cook Inlet	
GLOBAL MARINE				
Glomar Grand Isle Drillship			May move to Lower Cook Inlet	
Glomar Conception Drillship			May move to Lower Cook Inlet	
Glomar Tasman Drillship			May move to Lower Cook Inlet	
Glomar Atlantic			May move to Lower Cook Inlet	
DIAMOND M DRILLING				
Diamond M Dragon Drillship			Will move to Lower Cook Inlet	Marathon
WODECO				
Western Offshore IX Drillship			May move to Lower Cook Inlet	

Continued on page 2.....

Rig List, ContinuedCOOK INLET BASIN

Amoco Production Co.				On Platform - idle	
Brewster N-7 (Platform Bruce)				On Platform - idle	
Cont'l. Emsco GB-250 5/48					
Atlantic Richfield Company					
	National 1320 DE 13/58		15,000+	On Platform - TBU K-2RD	Union/ARCO
	Cont'l. Emsco Electrohoist 11/80		15,000	On Platform - idle	
Brinkerhoff Drilling Company					
	Wilson 120	58	12,500	Stacked @ Stump Lake Unit #41-33	
	Oilwell 52T (Helicopter Rig)	60	10,000*	Simpco Kaloa #1	Simasko
	Oilwell 96	43	16,000	Clam Gulch Unit #1	Union
Marathon Oil Company					
	National 1320 UE 10/	76	20,000	On Platform - TBU D-15RD	Union/Marathon
	National 1320 UE 10/	77	20,000	On Platform - Deactivated	
Mobil Oil Company					
	Wilson 120 H 9/			On Granite Point Platform	Mobil
Parker Drilling Company					
	TBA 2000	150	20,000	Platform Baker -- Stacked	
	TBA 2000	152	20,000	Platform Anna - GPS 18742 MUC 1-3	AMOCO/Parker
Shell Oil Company					
	Cont'l. Emsco Electrohoist "C"		20,000	Shell Platform C - MGS C42-23	Shell
	National 110/8		15,000	Shell Platform A - idle	
Union Oil Co. of California					
	National 1320 DE 12/	54	12,500+	On Platform - idle	
	National 1320 DE 12/	55	15,000+	On Platform - TBU G-12RD-2	Union
	Oilwell 860 on Monopod	56	15,000+	On Platform - idle	

- 1/ On Texaco - Superior Platform A***
- 2/ On Phillips North Cook Inlet Platform
- 3/ On Amoco's Platform Baker (B)
- 4/ On Amoco's Platform MGS Dillion (D)
- 5/ On Amoco's Granite Point Platform Bruce
- 6/ On Shell's MGS Platform "C"
- 7/ On Amoco's Platform Anna (A)

- 8/ On Shell's MGS Platform A
- 9/ On Mobil's Granite Point Platform
- 10/ On Marathon's Dolly Varden Platform
- 11/ On ARCO's Platform Spark
- 12/ On Union's Grayling Platform
- 13/ On ARCO's King Platform

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

THE ALASKA REPORT

RIGS LOCATED IN ALASKA (published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Inkerhoff Drlg. Co.				
National T20	31	7,000	Stacked @ South Barrow #6	Husky
National 110	36	18,500	Prudhoe Bay Unit B-6	Sohio Petroleum
Oilwell 96	59	16,000	West Sak River #12	ARCO
Challenger Drlg. Co.				
National 110	49	16,000	Tiglukpuk	Chevron
Miller & Miller Auctioneers				
National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drlg. Co.				
National 110	162	17,000	Point Thomson Unit #2	Exxon
Nabors Alaska Drlg. Co.				
Emsco A-800-83	1	16,000	Stacked @ South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay GC-2 W.O.	Sohio Petroleum
Oilwell 860	17	19,000	Enroute to NPRA	Husky
Nabors Well Servicing, Inc.				
Cont'l. Emsco Electro-Hoist 2C 1-ES		20,000	Rigging up @ Prudhoe Bay DS 5-17	ARCO
Parker Drilling Co.				
National 130	95	25,000	Stacked @ DEW Line - NPRA	Husky
National 130	96	25,000	Stacked @ Ikpikpuk Test Well #1	Husky
National 80	97	15,000	Stacked @ Duck Island #1	ARCO
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000 (HellHoist)	141	20,000	Prudhoe Bay Unit DS 6-7	ARCO
TBA 2000	147	20,000	W. Mikkelsen Bay St. #1	ARCO
TBA 2000-E	176	18,000	Rigging up @ Prudhoe Bay DS 14-1	ARCO
Rowan Drilling Co.				
National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	Will Move to Staines River #1	Mobil
Turbine Electric	34	20,500	Prudhoe Bay DS 7-2	ARCO
Turbine Electric	35	20,500	West Bay State #1	ARCO
U.S. Navy Department				
Cardwell	3	**5,000	Stacked @ NPRA	

RESURRECTION BAY - SEWARD

ODECO				
Ocean Bounty Semisubmersible		25,000	Seward on Standby	Phillips
ODECO				
Ocean Ranger Semisubmersible		25,000	Seward on Standby	
Emsco C-3 Type II Draw Works				

NORTHERN GULF OF ALASKA

EXXON				
Alaskan Star Semisubmersible		30,000	Enroute to Brazil-- <u>FINAL REPORT</u>	North Star Drilling

LOWER COOK INLET

DIAMOND M DRILLING				
Diamond M Dragon Drillship			OCS Y-0086 #1	Marathon
JAPAN DRILLING CO. LTD.				
White Dragon II & III Semisubmersible	30,000		May Move from Japan to Lower Cook Inlet	
GLOBAL MARINE				
Glomar Grand Isle Drillship			May Move to Lower Cook Inlet	
Glomar Conception Drillship			May Move to Lower Cook Inlet	
Glomar Tasman Drillship			May Move to Lower Cook Inlet	
Glomar Atlantic			May Move to Lower Cook Inlet	
...ECO				
Western Offshore IX Drillship			May Move to Lower Cook Inlet	

Continued on page 2

THE ALASKA REPORT

Rig List, Continued

COOK INLET BASIN

Amoco Production Co.				On Platform - idle	
Brewster H-7 (Platform Bruce)				On Platform - idle	
Cont'l. Emsco GB-250 5/48					
Atlantic Richfield Company					
National 1320 DE 13/58		15,000+		On Platform - TBU K-30 W.O.	Union/ARCO
Cont'l. Emsco Electrohoist 11/80		15,000		On Platform - idle	
Brinkerhoff Drilling Company					
Wilson 120	58	12,500		Stacked @ Stump Lake Unit #41-33	
Oilwell 52T (Helicopter Rig)	60	10,000*		Simpco Moquawkie #1	Simasko
Oilwell 96	43	16,000		Clam Gulch Unit #1	Union
Marathon Oil Company					
National 1320 UE 10/	76	20,000		On Platform - TBU D-15RD W.O.	Union/Marathon
National 1320 UE 10/	77	20,000		On Platform - Deactivated	
Mobil Oil Company					
Wilson 120 H 9/				On Granite Point Platform	Mobil
Parker Drilling Company					
TBA 2000	152	20,000		Platform Anna-May move to Platform Bruce	AMOCO/Parker
Shell Oil Company					
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - idle	Shell
National 110/8		15,000		Shell Platform A - idle	
Union Oil Co. of California					
National 1320 DE 12/	54	12,500+		On Platform - idle	
National 1320 DE 12/	55	15,000+		On Platform - TBU G-8RD	Union
Oilwell 860 on Monopod	56	15,000+		On Platform - idle	

- | | |
|--|---|
| 1/ On Texaco - Superior Platform A*** | 8/ On Shell's MGS Platform A |
| 2/ On Phillips North Cook Inlet Platform | 9/ On Mobil's Granite Point Platform |
| 3/ On Amoco's Platform Baker (B) | 10/ On Marathon's Dolly Varden Platform |
| 4/ On Amoco's Platform MGS Dillion (D) | 11/ On ARCO's Platform Spark |
| 5/ On Amoco's Granite Point Platform Bruce | 12/ On Union's Grayling Platform |
| 6/ On Shell's MGS Platform "C" | 13/ On ARCO's King Platform |
| 7/ On Amoco's Platform Anna (A) | |

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

RIGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Crinkhoff Drlg. Co.				
National T20	31	7,000	Stacked @ South Barrow #6	Husky
National 110	36	18,500	Prudhoe Bay Unit B-9	Sohio Petroleum
Oilwell 95	59	16,000	West Sak River #12	ARCO
Challenger Drlg. Co.				
National 110	49	16,000	Tiglukpuk	Chevron
Miller & Miller Auctioneers				
National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drlg. Co.				
National 110	162	17,000	Stacked @ Point Thomson U. #2	Exxon
Nabors Alaska Drlg. Co.				
Emsco A-800-83	1	16,000	Stacked @ South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay Unit Q-3	Sohio Petroleum
Oilwell 86U	17	19,000	Being upgraded @ NPRA's Camp Lonely	Husky
Nabors Well Servicing, Inc.				
Cont'l. Emsco Electro-Hoist 2C 1-ES		20,000	Rigging up @ Prudhoe Bay DS 5-17	ARCO
Parker Drilling Co.				
National 130	95	25,000	Stacked @ DEW Line - NPRA	Husky
National 130	96	25,000	Stacked @ Ikpikpuk Test Well #1	Husky
National 80	97	15,000	Stacked @ Duck Island #1	Exxon
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay - Being modified	ARCO
TBA 2000	147	20,000	W. Mikkelsen Bay St. #1	ARCO
TBA 2000-E	176	18,000	Prudhoe Bay DS 14-1	ARCO
Rowan Drilling Co.				
National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	Will Move to Staines River #1	Mobil
Turbine Electric	34	20,500	Prudhoe Bay DS 7-2	ARCO
Turbine Electric	35	20,500	West Bay State #1	ARCO
U.S. Navy Department				
Cardwell	3	**5,000	Stacked @ NPRA	

RESURRECTION BAY - SEWARD

ODECO				
Ocean Bounty Semisubmersible		25,000	Seward on Standby	Phillips
CDECO				
Ocean Ranger Semisubmersible		25,000	Seward on Standby	
Emsco C-3 Type II Draw Works				

LOWER COOK INLET

DIAMOND M DRILLING				
Diamond M Dragon Drillship			OCS Y-0086 #1	Marathon
JAPAN DRILLING CO. LTD.				
White Dragon II & III Semisubmersible		30,000	May Move from Japan to Lower Cook Inlet	
GLOBAL MARINE				
Glomar Grand Isle Drillship			May Move to Lower Cook Inlet	
Glomar Conception Drillship			May Move to Lower Cook Inlet	
Glomar Tasman Drillship			May Move to Lower Cook Inlet	
Glomar Atlantic			May Move to Lower Cook Inlet	
DECO				
Western Offshore IX Drillship			May Move to Lower Cook Inlet	

Continued on page 2

THE ALASKA REPORT

Rig List, Continued

COOK INLET BASIN

Amoco Production Co.				On Platform - idle	
Brewster H-7 (Platform Bruce)				On Platform - idle	
Cont'l. Emsco GB-250 5/48					
Atlantic Richfield Company					
National 1320 DE 13/58		15,000+		On Platform - TBU K-12RD	Union/ARCO
Cont'l. Emsco Electrohoist 11/80		15,000		On Platform - idle	
Brinkerhoff Drilling Company					
Wilson 120	58	12,500		Stacked @ Stump Lake Unit #41-33	
Oilwell 52T (Helicopter Rig)	60	10,000*		Simpco Moquawkie #1	Simasko
Oilwell 96	43	16,000		Kenai Deep Unit #5	Union
Marathon Oil Company					
National 1320 UE 10/	76	20,000		On Platform - W. O. Status	Union/Marathon
National 1320 UE 10/	77	20,000		On Platform - Deactivated	
Mobil Oil Company					
Wilson 120 H 9/				On Granite Point Platform	Mobil
Parker Drilling Company					
TBA 2000 /5	152	20,000		Platform Bruce-GPS 18742-12RD	AMOCO/PARKER
Shell Oil Company					
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - idle	Shell
National 110/8		15,000		Shell Platform A - idle	
Union Oil Co. of California					
National 1320 DE 12/	54	12,500+		On Platform - idle	
National 1320 DE 12/	55	15,000+		On Platform - Deactivated	Union
Oilwell 860 on Monopod	56	15,000+		On Platform - W.O. Status	Union

- | | |
|--|---|
| 1/ On Texaco - Superior Platform A*** | 8/ On Shell's MGS Platform A |
| 2/ On Phillips North Cook Inlet Platform | 9/ On Mobil's Granite Point Platform |
| 3/ On Amoco's Platform Baker (B) | 10/ On Marathon's Dolly Varden Platform |
| 4/ On Amoco's Platform MGS Dillion (D) | 11/ On ARCO's Platform Spark |
| 5/ On Amoco's Granite Point Platform Bruce | 12/ On Union's Grayling Platform |
| 6/ On Shell's MGS Platform "C" | 13/ On ARCO's King Platform |
| 7/ On Amoco's Platform Anna (A) | |

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

THE ALASKA REPORT

WELLS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Atlantic Alaska Drilling Co. Oilwell 2000	PNJV #1	25,000	ETA - NOV. 1	Sohio Petroleum
Bankerhoff Drilling Co. National T20	31	7,000	Stacked @ South Barrow #6	Husky
National 110	36	18,500	Prudhoe Bay Unit B-10	Sohio Petroleum
Oilwell 96	59	16,000	Stacked @ W. Sak River #12	ARCO
Challenger Drilling Co. National 110	49	16,000	Tiglukpuk	Chevron
Miller & Miller Auctioneers National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Offland Brothers Drilling Co. National 110	162	17,000	Stacked @ Point Thomson U. #2	Exxon
Woods Alaska Drilling Co. Emsco A-800-83	1	16,000	Stacked @ South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay Unit Q-1	Sohio Petroleum
Oilwell 860	17	19,000	Being upgraded @ NPRA's Camp Lonely	Husky
Woods Well Servicing, Inc. Cont'l. Emsco Electro-Hoist 2C 1-ES		20,000	Moving to Prudhoe Bay DS 7-3 WO	ARCO
Banker Drilling Company National 130	95	25,000	Stacked near Icy Cape-NPRA	Husky
National 130	96	25,000	Stacked @ Ikpikpuk Test Well #1	Husky
National 80	97	15,000	Duck Island #1	Exxon
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay DS 6-8	ARCO
TBA 2000	147	20,000	W. Mikkelsen Bay St. #1	ARCO
TBA 2000-E	176	18,000	Prudhoe Bay DS 14-2	ARCO
Wan Drilling Company National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	Will Move to Staines River #1	Mobil
Turbine Electric	34	20,500	Prudhoe Bay DS 7-5	ARCO
Turbine Electric	35	20,500	West Bay State #1	ARCO
U.S. Navy Department Cardwell	3	**5,000	Stacked @ NPRA	

RESURRECTION BAY - SEWARD

ECO Ocean Ranger Semisubmersible Emsco C-3 Type II Draw Works	25,000	Seward on Standby	
---	--------	-------------------	--

LOWER COOK INLET

MOND M DRILLING Diamond M Dragon Drillship		OCS Y-0086 #1	Marathon
ECO Ocean Bounty Semisubmersible	25,000	Enroute to OCS Y-0168 #1	Phillips

Continued on page 2

Rig List, ContinuedLower Cook Inlet, Continued

JAPAN DRILLING CO. LTD.				
White Dragon II & III Semisubmersible		30,000		May Move from Japan to Lower Cook Inlet
GLOBAL MARINE				
Glomar Grand Isle Drillship				May Move to Lower Cook Inlet
Glomar Conception Drillship				May Move to Lower Cook Inlet
Glomar Tasman Drillship				May Move to Lower Cook Inlet
Glomar Atlantic				May Move to Lower Cook Inlet
WODECO				
Western Offshore IX Drillship				May Move to Lower Cook Inlet

COOK INLET BASIN

Amoco Production Co.				
Brewster N-7 (Platform Bruce)				On Platform - idle
Cont'l. Emsco GB-250 5/4B				On Platform - idle
Atlantic Richfield Company				
National 1320 DE 13/58		15,000*		On Platform - TBU K-12RD
Cont'l. Emsco Electrohoist 11/80		15,000		On Platform - idle
Brinkerhoff Drilling Company				
Oilwell 96	43	16,000		Kenai Deep Unit #5
Wilson 120	58	12,500		Stacked @ Stump Lake Unit 41-33
Oilwell 52T (Helicopter Rig)	60	10,000*		Simpco Moquawkie #1
Marathon Oil Company				
National 1320 UE 10/	76	20,000		On Platform - TBU D-40
National 1320 UE 10/	77	20,000		On Platform - Deactivated
Mobil Oil Company				
Wilson 120 H 9/				On Granite Point Platform
Parker Drilling Company				
TBA 2000 /5	152	20,000		Platform Bruce-GPS 18742-12RD
Shell Oil Company				
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - idle
National 110/8		15,000		Shell Platform A - idle
Union Oil Co. of California				
National 1320 DE 12/	54	12,500+		On Platform - idle
National 1320 DE 12/	55	15,000+		On Platform - Deactivated
Oilwell 860 on Monopod	56	15,000+		On Platform - W.O. Status

1/ On Texaco - Superior Platform A***	8/ On Shell's MGS Platform A
2/ On Phillips North Cook Inlet Platform	9/ On Mobil's Granite Point Platform
3/ On Amoco's Platform Baker (B)	10/ On Marathon's Dolly Varden Platform
4/ On Amoco's Platform MGS Dillion (D)	11/ On ARCO's Platform Spark
5/ On Amoco's Granite Point Platform Bruce	12/ On Union's Grayling Platform
6/ On Shell's MGS Platform "C".	13/ On ARCO's King Platform
7/ On Amoco's Platform Anna (A)	

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (***) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

THE ALASKA REPORT

RIGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Arctic Alaska Drilling Co. Oilwell 2000	PNJV #1	25,000	Enroute To North Slope	Sohio Petroleum
Brinkerhoff Drilling Co. National 120	31	7,000	Stacked @ South Barrow #6	Husky Oil
National 110	36	18,500	Prudhoe Bay Unit B-11	Sohio Petroleum
Oilwell 96	59	16,000	Stacked @ W. Sak River #12	ARCO
Challenger Drilling Co. National 110	49	16,000	Tiglukpuk	Chevron
Miller & Miller Auctioneers National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drilling Co. National 110	162	17,000	Stacked @ Point Thomson Unit #2	Exxon
Nabors Alaska Drilling Co. Emsco A-800-83	1	16,000	Stacked @ South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay Unit Q-2	Sohio Petroleum
Oilwell 86C	17	19,000	Stacked @ NPRA's Camp Lonely	Husky
Emsco Electro-Hoist 2	22-E	25,000	Enroute To North Slope	Sohio Petroleum
Nabors Well Servicing, Inc. Cont'l. Emsco Electro-Hoist 2C 1-E5		20,000	Prudhoe Bay DS 6-3 WO	ARCO
Marker Drilling Company National 130	95	25,000	Tunalik Test #1	Husky
National 130	96	25,000	Stacked @ Ikpiukpuk Test Well #1	Husky
National 80	97	15,000	Duck Island #1	Exxon
TBA 2000	128	20,000	Eagle Creek #1	Chevron
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay DS 6-8	ARCO
TBA 2000	147	20,000	W. Mikkelsen Bay State #1	ARCO
TBA 2000-E	176	13,000	Prudhoe Bay DS 14-2	ARCO
Rowan Drilling Company National 110	26	17,500	Stacked @ Mukluk Yard	
National 110	29	20,500	Will Move To Staines River #1	Mobil
Turbine Electric	34	20,500	Prudhoe Bay DS 7-5	ARCO
Turbine Electric	35	20,500	NGI #2 WO	ARCO
U.S. Navy Department Cardwell	3	##5,000	Stacked @ NPRA	

RESURRECTION BAY - SEWARD

ODECO Ocean Ranger Semisubmersible Emsco C-3 Type II Draw Works		25,000	Seward on Standby	
---	--	--------	-------------------	--

LOWER COOK INLET

DIAMOND M DRILLING Diamond M Dragon Drillship		20,000	OCS Y-0086 #1	Marathon
DECO Ocean Bounty Semisubmersible		25,000	OCS Y-0124 #1	Phillips

Continued on page 2

Rig List, ContinuedLower Cook Inlet, Continued

JAPAN DRILLING CO. LTD.				
White Dragon II & III Semisubmersible	30,000			May Move from Japan to Lower Cook Inlet
GLOBAL MARINE				
Glomar Grand Isle Drillship				May Move to Lower Cook Inlet
Glomar Conception Drillship				May Move to Lower Cook Inlet
Glomar Tasman Drillship				May Move to Lower Cook Inlet
Glomar Atlantic				May Move to Lower Cook Inlet
WODECO				
Western Offshore IX Drillship				May Move to Lower Cook Inlet

COOK INLET BASIN

Amoco Production Co.				
Brewster N-7 (Platform Bruce)				On Platform - idle
Cont'l. Emsco GB-250 5/4B				On Platform - idle
Atlantic Richfield Company				
National 1320 DE 13/58	15,000*			On Platform - TBU K-12RD
Cont'l. Emsco Electrohoist 11/80	15,000			On Platform - idle.
Brinkerhoff Drilling Company				
Oilwell 96	43	16,000		Kenai Deep Unit #5
Wilson 120	58	12,500		Stacked @ Stump Lake Unit 41-33
Oilwell 52T (Helicopter Rig)	60	10,000*		Stacked @ Simpcu Moquawkie #1
Marathon Oil Company				
National 1320 UE 10/	76	20,000		On Platform - TBU D-40
National 1320 UE 10/	77	20,000		On Platform - Deactivated
Mobil Oil Company				
Wilson 120 H 9/				On Granite Point Platform
Parker Drilling Company				
TBA 2000 /5	152	20,000		Platform Bruce-GPS 18742-30
Shell Oil Company				
Cont'l. Emsco Electrohoist "C"		20,000		Shell Platform C - idle
National 110/8		15,000		Shell Platform A - idle
Union Oil Co. of California				
National 1320 DE 12/	54	12,500+		On Platform - idle
National 1320 DE 12/	55	15,000+		On Platform - Deactivated
Oilwell 860 on Monopod	56	15,000+		On Platform - W.O. Status
				Union
1/ On Texaco - Superior Platform A***				8/ On Shell's MGS Platform A
2/ On Phillips North Cook Inlet Platform				9/ On Mobil's Granite Point Platform
3/ On Amoco's Platform Baker (B)				10/ On Marathon's Dolly Varden Platform
4/ On Amoco's Platform MGS Dillion (D)				11/ On ARCO's Platform Spark
5/ On Amoco's Granite Point Platform Bruce				12/ On Union's Grayling Platform
6/ On Shell's MGS Platform "C"				13/ On ARCO's King Platform
7/ On Amoco's Platform Anna (A)				

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depth shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

THE ALASKA REPORT

RIGS LOCATED IN ALASKA

(published monthly)

ARCTIC NORTH SLOPE

<u>Contractor</u>	<u>Rig No.</u>	<u>Approx. Capacity</u>	<u>Present Location</u>	<u>Operator</u>
Arctic Alaska Drilling Co. Oilwell 2000	PNJV #1	25,000	Enroute To North Slope	Sohio Petroleum
Brinkerhoff Drilling Co. National T20	31	7,000	Stacked @ South Barrow #6	Husky Oil
National 110	36	18,500	Prudhoe Bay Unit B-13	Sohio Petroleum
Oilwell 96	59	16,000	Stacked @ W. Sak River #12	ARCO
Challenger Drilling Co. National 110	49	16,000	Tiglukpuk - Moving To Canada	
Miller & Miller Auctioneers National 50		8,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Cardwell II		4,000	Stacked @ Deadhorse	
Loffland Brothers Drilling Co. National 110	162	17,000	Stacked @ Point Thomson Unit #2	Exxon
Nabors Alaska Drilling Co. Emsco A-800-83	1	16,000	South Meade Test #1	Husky
National 110	25	19,000	Inigok Test #1	Husky
Emsco Electro-Hoist 2	18-E	25,000	Prudhoe Bay Unit Q-4	Sohio Petroleum
Oilwell 860	17	19,000	Peard Test Well #1	Husky
Nabors Well Servicing, Inc. Con't. Emsco Electro-Hoist 21-ES		20,000	Stacked @ Deadhorse	ARCO-Standby
22-E, Inc. Emsco Electro-Hoist 2	22-E	25,000	Enroute To North Slope	Sohio Petroleum
Parker Drilling Company National 130	95	25,000	Tunalik Test #1	Husky
National 130	96	25,000	Ikpikpuk Test Well #1	Husky
National 80	97	15,000	Duck Island #1	Exxon
TBA 2000	128	20,000	Stacked @ Eagle Creek #1	Chevron
TBA 2000 (HeliHoist)	141	20,000	Prudhoe Bay DS 13-2	ARCO
TBA 2000	147	20,000	Stacked @ W. Mikkelsen Bay State #1	Idle
TBA 2000-E	176	18,000	Prudhoe Bay DS 14-2	ARCO
Rowan Drilling Company National 110	26	17,500	Stacked @ Mukluk Yard	Idle
National 110	29	20,500	Will Move To Staines River #1	Mobil
Turbine Electric	34	20,500	Prudhoe Bay DS 7-7	ARCO
Turbine Electric	35	20,500	NGI #12	ARCO
U.S. Navy Department Cardwell	3	5,000	Stacked @ NPRA	

RESURRECTION BAY - SEWARD

ODECO Ocean Ranger Semisubmersible Emsco C-3 Type II Draw Works		25,000	Seward on Standby	
---	--	--------	-------------------	--

LOWER COOK INLET

DIAMOND M DRILLING Diamond M Dragon Drillship		20,000	OCS Y-0086 #1	Marathon
ODECO Ocean Bounty Semisubmersible		25,000	Y-0124 #1	Phillips

Continued on page 2

Rig List, ContinuedCOOK INLET BASIN

Amoco Production Co.					
Brewster N-7 (Platform Bruce)			On Platform - idle		
Cont'l. Emsco GB-250 5/48			On Platform - idle		
Atlantic Richfield Company					
National 1320 DE 13/58		15,000*	On Platform - idle		Union/ARCO
Cont'l. Emsco Electrohoist 11/80		15,000	On Platform - idle		
Brinkerhoff Drilling Company					
Oilwell 96	43	16,000	Kenai Deep Unit #6		Union
Wilson 120	58	12,500	Stacked @ Strip Lake Unit 41-33		Idle
Oilwell 52T (Helicopter Rig) 60		10,000*	Simpco Moquawkie #2		Simasko
Marathon Oil Company					
National 1320 UE 10/	76	20,000	On Platform - TBU D-25RD		Union/Marathon
National 1320 UE 10/	77	20,000	On Platform - Deactivated		
Mobil Oil Company					
Wilson 120 H 9/			On Granite Point Platform		Mobil
Parker Drilling Company					
TBA 2000 /5	152	20,000	Platform Bruce - GPS 18742-30		AMOCO/Parker
Shell Oil Company					
Cont'l. Emsco Electrohoist "C"		20,000	Shell Platform C - idle		
National 110/8		15,000	Shell Platform A - idle		
Union Oil Company of California					
National 1320 DE 12/	54	12,500+	On Platform - idle		
National 1320 DE 12/	55	15,000+	On Platform - TBU G-27		Union
Oilwell 860 on Monopod	56	15,000+	On Platform - W.O. Status		Union
1/ On Texaco - Superior Platform ***			8/ On Shell's MGS Platform A		
2/ On Phillips North Cook Inlet Platform			9/ On Mobil's Granite Point Platform		
3/ On Amoco's Platform Baker (B)			10/ On Marathon's Dolly Varden Platform		
4/ On Amoco's Platform MGS Dillion (D)			11/ On ARCO's Platform Spark		
5/ On Amoco's Granite Point Platform Bruce			12/ On Union's Grayling Platform		
6/ On Shell's MGS Platform "C"			13/ On ARCO's King Platform		
7/ On Amoco's Platform Anna (A)					

*Depth capacities shown represent the depth to which the rig, as modified, should be able to drill. Figures differ from book rating due to rig modifications. All depths shown would be using 4½" or 5" OD drill pipe--except those with (**) where a 3½" OD drill pipe or tubing is used.

***The Texaco-Superior Platform A, which is operated by ARCO, does not have drilling capability and so is not carried in the normal rig section. If it is returned to a status of drilling capability, it will again be carried in the rig list.

Fiftieth Legislative Assembly, State of North Dakota, begun and held at the Capitol in the City of Bismarck, on Tuesday, the sixth day of January, one thousand nine hundred and eighty-seven.

SENATE BILL NO. 2079
(Legislative Council)
(Interim Taxation Committee)

AN ACT to amend and reenact subsections 4 and 5 of section 38-08-04, and sections 57-51.1-01, 57-51.1-02, and 57-51.1-03 of the North Dakota Century Code, relating to the duties of the industrial commission, the definitions of stripper well property, qualifying secondary recovery project, and qualifying tertiary recovery project for oil extraction purposes, the definition of average price, the rate of the oil extraction tax, and exemption from the oil extraction tax; and to declare an emergency.

BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF THE STATE OF NORTH DAKOTA:

SECTION 1. AMENDMENT. Subsections 4 and 5 of section 38-08-04 of the 1985 Supplement to the North Dakota Century Code are hereby amended and reenacted to read as follows:

- 4. To classify wells as oil or gas wells for purposes material to the interpretation or enforcement of this chapter, and to classify and determine the status and depth of wells that are stripper well property as defined in subsection 5 8 of section 57-51.1-01, to certify to the tax commissioner which wells are stripper wells and the depth of those wells, and to certify to the tax commissioner which wells involve secondary or tertiary recovery operations under section 2 of this Act, and the date of qualification for the reduced rate of oil extraction tax for secondary and tertiary recovery operations.
- 5. To adopt and to enforce rules and orders to effectuate the purposes and the intent of this chapter and of subsections 1 and, 4, 5, 6, and 8 of section 57-51.1-01.

SECTION 2. AMENDMENT. Section 57-51.1-01 of the North Dakota Century Code is hereby amended and reenacted to read as follows:

57-51.1-01. Definitions for oil extraction tax. For the purposes of the oil extraction tax law, the following words and terms shall have the meaning ascribed to them in this section:

1. "Average daily production" of a well means the qualified maximum total production of oil from the well during a calendar month period divided by the number of calendar days in that period; and "qualified maximum total production" of a well means that the well must have been maintained at the maximum efficient rate of production as defined and determined by rule adopted by the industrial commission in furtherance of its authority under chapter 38-08.
2. "Average price" of a barrel of crude oil means the average daily price for a barrel of west Texas intermediate cushing crude oil, as those prices appear in the wall street journal, midwest edition, for the period June first through October thirty-first of any year.
3. "Oil" means petroleum, crude oil, mineral oil, casinghead gasoline, and all liquid hydrocarbons that are recovered from gas on the lease incidental to the production of the gas.
- 3- 4. "Property" means the right which arises from a lease or fee interest, as a whole or any designated portion thereof, to produce oil. A producer shall treat as a separate property each separate and distinct producing reservoir subject to the same right to produce crude oil; provided, that such reservoir is recognized by the appropriate governmental regulatory authority industrial commission as a producing formation that is separate and distinct from, and not in communication with, any other producing formation.
5. "Qualifying secondary recovery project" means a project employing water flooding. To be eligible for the tax reduction provided under section 57-51.1-02, a secondary recovery project must be certified as qualifying by the industrial commission, the project must have been unitized after the effective date of this Act, and the project operator must have achieved for six consecutive months an average production level of at least twenty-five percent above the level that would have been recovered under normal recovery operations.
6. "Qualifying tertiary recovery project" means a project for enhancing recovery of oil which meets the requirements of section 4993(c), Internal Revenue Code of 1954, as amended through December 31, 1986, and includes the following methods for recovery:
 - a. Miscible fluid displacement.

- b. Steam drive injection.
- c. Microemulsion.
- d. In situs combustion:
- e. Polymer augmented water flooding.
- f. Cyclic steam injection.
- g. Alkaline flooding.
- h. Carbonated water flooding.
- i. Immiscible carbon dioxide displacement.
- j. New tertiary recovery methods certified by the industrial commission.

It does not include water flooding, unless the water flooding is used as an element of one of the qualifying tertiary recovery techniques described in this subsection, or immiscible natural gas injection. To be eligible for the tax reduction provided under section 57-51.1-02, a tertiary recovery project must be certified as qualifying by the industrial commission, the project operator must continue to operate the unit as a qualifying tertiary recovery project, and the project operator must have achieved for at least one month a production level of at least fifteen percent above the level that would have been recovered under normal recovery operations.

- 4- 7. "Royalty owner" means an owner of what is commonly known as the royalty interest and shall not include the owner of any overriding royalty or other payment carved out of the working interest.
- 5- 8. "Stripper well property" means a "property" whose average daily production of oil, excluding condensate recovered in nonassociated production, per well did not exceed ten barrels per day for wells of a depth of six thousand feet or less, fifteen barrels per day for wells of a depth of more than six thousand feet but not more than ten thousand feet, and twenty barrels per day for wells of a depth of more than ten thousand feet during any preceding consecutive twelve-month period beginning after December 31, 1972. Wells which did not actually yield or produce oil during the qualifying twelve-month period, including disposal wells, dry wells, spent wells, and shut-in wells, are not production wells for the purpose of determining whether the stripper well property exemption applies.

SECTION 3. AMENDMENT. Section 57-51.1-02 of the North Dakota Century Code is hereby amended and reenacted to read as follows:

57-51.1-02. Imposition of oil extraction tax. There is hereby imposed an excise tax, to be known as the "oil extraction tax", upon the activity in this state of extracting oil from the earth, and every owner, including any royalty owner, of any part of the oil extracted shall be deemed for the purposes of this chapter to be engaged in the activity of extracting that oil. The rate of tax shall be six and one-half percent of the gross value at the well of the oil extracted, except that for wells drilled and completed after the effective date of this Act, and not otherwise exempt under section 57-51.1-03, and for a qualifying secondary recovery project or for a qualifying tertiary recovery project, the rate of tax shall be four percent of the gross value at the well of the oil extracted. However, if the average price of a barrel of crude oil between June first and October thirtv-first of any year is thirtv-three dollars or more then the rate of tax for the following calendar year on all taxable wells is six and one-half percent of the gross value at the well of the oil extracted.

SECTION 4. AMENDMENT. Section 57-51.1-03 of the North Dakota Century Code is hereby amended and reenacted to read as follows:

57-51.1-03. Exemptions from oil extraction tax. The following activities are specifically exempted from the oil extraction tax:

1. The activity of extracting from the earth any oil that is exempt from the gross production tax imposed by chapter 57-51.
2. The activity of extracting from the earth any oil from a stripper well property.
3. The activity not otherwise exempt of extracting from the earth the oil that is owned by a royalty owner or royalty owners in the first one hundred barrels, or any lesser amount, of the average daily production of oil that is produced during each calendar day from any well. For a well drilled and completed after the effective date of this Act, the initial production of oil from the well is exempt from any taxes imposed under this chapter for a period of fifteen months. Oil recovered during testing prior to well completion is exempt from the oil extraction tax. The exemption under this subsection becomes ineffective if the average price of a barrel of crude oil between June first and October thirtv-first of any year is thirtv-three dollars or more.

SECTION 5. EMERGENCY. This Act is declared to be an emergency measure and is in effect upon its filing with the secretary of state, except the portion of the amendment to

subsection 3 of section 57-51.1-03 relating to removal of the oil extraction tax exemption for oil owned by a royalty owner becomes effective July 1, 1987.

President of the Senate

Secretary of the Senate

Speaker of the House

Chief Clerk of the House

This certifies that the within bill originated in the Senate of the Fiftieth Legislative Assembly of the State of North Dakota and is known on the records of that body as Senate Bill No. 2079.

Secretary of the Senate

This certifies that two-thirds of the members of the Senate present and voting, voted in favor of said law.

Vote: Ayes 44 Nays 9 Absent 0

President of the Senate

Secretary of the Senate

This certifies that two-thirds of the members of the House of Representatives present and voting, voted in favor of said law.

Vote: Ayes 88 Nays 10 Absent 8

Speaker of the House

Chief Clerk of the House

Received by the Governor at _____ M. on _____, 1987.

Approved at _____ M. on _____, 1987.

Governor

Filed in this office this _____ day of _____,
1987, at _____ o'clock ___ M.

Secretary of State

North Dakota

Fiftieth Legislative Assembly, State of North Dakota, begun and held at the Capitol in the City of Bismarck, on Tuesday, the sixth day of January, one thousand nine hundred and eighty-seven.

SENATE BILL NO. 2078
(Legislative Council)
(Interim Taxation Committee)

AN ACT to amend and reenact section 57-51.1-03 of the North Dakota Century Code, relating to removal of the royalty owners' exemption from the oil extraction tax.

BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF THE STATE OF NORTH DAKOTA:

SECTION 1. AMENDMENT. Section 57-51.1-03 of the North Dakota Century Code is hereby amended and reenacted to read as follows:

57-51.1-03. Exemptions from oil extraction tax. The following activities are specifically exempted from the oil extraction tax:

1. The activity of extracting from the earth any oil that is exempt from the gross production tax imposed by chapter 57-51.
2. The activity of extracting from the earth any oil from a stripper well property.
3. The activity not otherwise exempt of extracting from the earth the oil that is owned by a royalty owner or royalty owners in the first one hundred barrels, or any lesser amount, of the average daily production of oil that is produced during each calendar day from any well.

President of the Senate

Secretary of the Senate

Speaker of the House

Chief Clerk of the House

This certifies that the within bill originated in the Senate of the Fiftieth Legislative Assembly of the State of North Dakota and is known on the records of that body as Senate Bill No. 2078.

Vote:	Ayes	40	Nays	11	Absent	2
Vote:	Ayes	95	Nays	11	Absent	0

1

Secretary of the Senate

Received by the Governor at _____ M. on _____, 1987.

Approved at 8:07 P M. on 4-7, 1987.

Governor

Filed in this office this 9 day of Apr., 1987, at 11:24 o'clock A.M.

Secretary of State

71053.0100

Fiftieth
Legislative Assembly
of North Dakota

HOUSE BILL NO. 1667

Introduced by

Representative Strinden

(Approved by the Committee on Delayed Bills)

1 A BILL for an Act to create and enact two new subsections to section
2 57-51.1-01 of the North Dakota Century Code, relating to definition
3 of the terms "extension well" and "wildcat well"; and to amend and
4 reenact section 57-51.1-03 of the North Dakota Century Code,
5 relating to exemptions from the oil extraction tax for oil from
6 extension wells and wildcat wells.

7 BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF THE
8 STATE OF NORTH DAKOTA:

9 SECTION 1. Two new subsections to section 57-51.1-01 of the
10 North Dakota Century Code are hereby created and enacted to read as
11 follows:

12 "Extension well" means an oil or gas well located within
13 one mile outside the boundaries of an established oilfield
14 and which is drilled and completed after March 31, 1987,
15 and before July 1, 1989.

16 "Wildcat well" means an oil or gas well located more than
17 one mile outside the boundaries of an established oilfield
18 and which is drilled and completed after March 31, 1987,
19 and before July 1, 1989.

20 SECTION 2. AMENDMENT. Section 57-51.1-03 of the North
21 Dakota Century Code is hereby amended and reenacted to read as
22 follows:

23 57-51.1-03. Exemptions from oil extraction tax. The following
24 activities are specifically exempted from the oil extraction tax:

- 25 1. The activity of extracting from the earth any oil that is
26 exempt from the gross production tax imposed by
27 chapter 57-51.

Fiftieth
Legislative Assembly

- 1 2. The activity of extracting from the earth any oil from a
2 stripper well property.
- 3 3. The activity not otherwise exempt of extracting from the
4 earth the oil that is owned by a royalty owner or royalty
5 owners in the first one hundred barrels, or any lesser
6 amount, of the average daily production of oil that is
7 produced during each calendar day from any well.
- 8 4. The activity of extracting from the earth oil from a
9 wildcat well is exempt from the tax imposed by section
10 57-51.1-02 for forty-eight months after drilling is
11 completed.
- 12 5. The activity of extracting from the earth oil from an
13 extension well is exempt from the tax imposed by section
14 57-51.1-02 for twenty-four months after drilling is
15 completed.



ALASKA REPORT

Handwritten notes and signatures in the top right corner, including the name "Kris".

RECEIVED

JUL 24 1987

Vol. 33, No. 29

DIVISION OF OIL & GAS
ANCHORAGE, ALASKA

7-22-87

Arco to Resume Development Drilling in Prudhoe Bay Field

Arco Alaska, which hasn't drilled a development well in Prudhoe Bay field since early this year, announced plans to drill five development wells there beginning in September. Arco was last active in the field in February.

Susan Andrews, spokesperson for Arco, said "resuming production drilling in Prudhoe is good news and strictly the result of higher oil prices." The wells represent a \$13 million investment, according to Andrews.

Arco also cancelled plans to stack the rig currently drilling in Lisburne field. Currently, bid requests for a rig for the Prudhoe program are out but a successful bidder has not yet been named.

This week's drilling activity in Lisburne field

shows crews logging the coring hole at 12,752 ft at Arco Alaska's L5-21, while in Kuparuk field casing is being run at 4,855 ft at the company's 3M-21.

In Endicott field, completion work is under way on the Arco O-23, while drilling is at 13,673 ft on Standard Alaska Production's J-40.

In Prudhoe Bay field, Standard began redrill operations at the B3B, while crews are running liner after competing drilling operations at the J-26 at 10,715 ft.

In Cook Inlet, Unocal is conducting fishing operations at the G-36 from the Grayling Platform. Onshore, at the Unocal Cannery Loop #4, crews are drilling out cement after setting 13 5/8-inch casing to 8,234 ft.

\$10 Million Law Suit Filed Over Cook Inlet Oil Spill

A \$10 million class action lawsuit filed Monday in Kenai Superior Court names the owner of the tanker Glacier Bay, Tesero Alaska Inc, and the Cook Inlet Response Organization as defendants.

The suit was filed on the behalf of commercial fisherman, processors and cannery workers claiming they suffered economic harm as the result of an oil spill earlier this month in Cook Inlet.

The nearly 3,100-bbl spill fouled fishing gear and contaminated some salmon caught at the beginning of what is expected to be a record run of red salmon.

Cleanup operations in Cook Inlet continue and those operations combined with the extreme tidal action in the inlet have eliminated the danger of the oil to the fish and commercial fishing operations. About 15 percent of the oil has been recovered to date.

A total of \$100 million is available to compensate the fisherman. Trinidad Corp, owner of the tanker,

carried \$14 million in mandatory insurance and is liable to claims up to that amount. If claims exceed that amount additional funds are available from the Trans-Alaska Pipeline Liability Fund, created by Congress as part of the Trans-Alaska Pipeline Authorization Act and designed to cover major spills of North Slope crude.

Separately, crews on Monday were cleaning up an oil-like substance that was discovered seeping out of a bluff near some oil storage tanks near Kenai.

The substance has not yet been identified and was discovered by clean up crews patrolling the beach for oil washed ashore from the inlet spill. Chevron USA, which among other companies, has tanks near the seepage is conducting the cleanup. Samples of the substance have been sent away for analysis and work is under way to find the source of the material.

The seep was discovered Sunday and is flowing at a rate of about five to 10 gallons per day.

Petroleum Information

 a company of
The Dun & Bradstreet Corporation

Box 2812, Denver, CO 80201-2812, 303/740-7100
Box 10-2278, Anchorage, AK 99510-2278 907/561-6432
Copyright 1987 Petroleum Information Corporation

THE FOLLOWING PAGES WERE TREATED AS
A UNIT IN THE ORIGINAL FILE.

5-19177

✓

87 07 3224

SC 13E3

RECEIVED

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

APR 7 1987

SCHEDULE 13E-3

REC'D S.E.C.
APR 1 1987
86

Bechtel Information Services
Gaithersburg, Maryland

Rule 13e-3 Transaction Statement
(Pursuant to Section 13(e) of the
Securities Exchange Act of 1934)

THE STANDARD OIL COMPANY / OH /
(Name of the Issuer)

BP NORTH AMERICA INC.
(Name of Person(s) Filing Statement)

COMMON STOCK, WITHOUT PAR VALUE
(Title of Class of Securities)

0008537341
(CUSIP Number of Class of Securities)

George H. Hagle
BP North America Inc.
620 Fifth Avenue
New York, New York 10020
(212) 887-9300

(Name, Address and Telephone Number of Person Authorized to
Receive Notices and Communications on Behalf of Person(s)
Filing Statement)

Copies To:

Benjamin F. Stapleton
Sullivan & Cromwell
125 Broad Street
New York, New York 10004
(212) 558-4000

K.J.M. Walder
The British Petroleum
Company p.l.c.
Britannic House, Moor Lane
London EC2Y 9BU
England
(01) 920-8000

Page 1 of Pages

Total Of Sequentially Numbered Pages 280
Exhibit Index on Sequentially Numbered Page 11

This statement is filed in connection with (check the appropriate box):

- a. The filing of solicitation materials or an information statement subject to Regulation 14A, Regulation 14C or Rule 13e-3(c) under the Securities Exchange Act of 1934.
- b. The filing of a registration statement under the Securities Act of 1933.
- c. A tender offer.
- d. None of the above.

Check the following box if the soliciting materials or information statement referred to in checking box (a) are preliminary copies:

Calculation of Filing Fee

Transaction valuation	Amount of filing fee
\$7,341,167,120*	\$1,468,233.42**

*up to 104,873,816 shares at \$70 per share

**1/50th of 1% of Transaction Valuation.

[X] Check box if any part of the fee is offset as provided by Rule 0-11(a)(2) and identify the filing with which the offsetting fee was previously paid. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

Amount Previously Paid: \$1,468,233.42

Form or Registration No.: SCHEDULE 14D-1

Filing Party: BP NORTH AMERICA INC.

Date Filed: April 1, 1987

This Schedule 13E-3 relates to the offer by BP North America Inc., a Delaware corporation (the "Purchaser") and an indirect wholly-owned subsidiary of The British Petroleum Company p.l.c., a company organized under the laws of England, to purchase any and all of the outstanding shares of Common Stock, without par value, of The Standard Oil Company, an Ohio corporation (the "Company"), at \$70 per share, net to the seller in cash, upon the terms and subject to the conditions set forth in the Offer to Purchase dated April 1, 1987 (the "Offer to Purchase") and the related Letter of Transmittal, copies of which are annexed hereto as Exhibits (d) (1) and (d) (2), respectively.

The cross reference sheet below is being supplied pursuant to Instruction F to Schedule 13E-3 and shows the location in the Schedule 14D-1 filed by the Purchaser with the Securities and Exchange Commission contemporaneously herewith (the "Schedule 14D-1") of the information required to be included in response to the Items of this Schedule. The information in the Purchaser's Schedule 14D-1 is incorporated herein by reference. A copy of the Schedule 14D-1 is attached hereto as Exhibit (g).

CROSS REFERENCE SHEET

<u>Item in Schedule 13E-3</u>	<u>Where located in the Purchaser's Schedule 14D-1</u>
Item 1(a)	Item 1(a)
Item 1(b)	Item 1(b)
Item 1(c)	Item 1(c)
Item 1(d)	*
Item 1(e)	*
Item 1(f)	*
Item 2	Item 2
Item 3	Item 3
Item 4	*
Item 5(a)	Item 5(a)
Item 5(b)	Item 5(b)
Item 5(c)	Item 5(c)
Item 5(d)	Item 5(d)
Item 5(e)	Item 5(e)

* Information is not required to be included in the Schedule 14D-1. Such information is hereinafter provided.

<u>Item in Schedule 13E-3</u>	<u>Where located in the Purchaser's Schedule 14D-1</u>
Item 5(f)	Item 5(g)
Item 5(g)	*
Item 6(a)	Item 4(a)
Item 6(b)	*
Item 6(c)	Item 4(b)
Item 6(d)	Item 4(c)
Item 7(a)	Item 5
Item 7(b)	*
Item 7(c)	*
Item 7(d)	*
Item 8	*
Item 9	*
Item 10	Item 6
Item 11	Item 7
Item 12	*
Item 13	*
Item 14	*
Item 15(a)	*
Item 15(b)	Item 8
Item 16	Item 10(f)
Item 17	Separately included herewith

Item 1. Issuer and Class of Security Subject to the Trans-
action.

(a) - (c) The answer to Items 1(a)-(c) of the Schedule 14D-1 is incorporated herein by reference.

(d) The information set forth under the caption "MARKET PRICES OF AND DIVIDENDS ON SHARES" in the Offer to Purchase is incorporated herein by reference. The Purchaser believes that the Company is subject to covenants contained in certain loan agreements which would restrict dividends payable by the Company, but that such restrictions are not material to the Company's ability to pay regular quarterly cash dividends.

(e) Not applicable.

* Information is not required to be included in the Schedule 14D-1. Such information is hereinafter provided.

(f) Not applicable.

Item 2. Identity and Background.

The answer to Item 2 of the Schedule 14D-1 is incorporated herein by reference.

Item 3. Past Contacts, Transactions or Negotiations.

The answer to Item 3 of the Schedule 14D-1 is incorporated herein by reference.

Item 4. Terms of the Transaction.

(a) The information set forth under the captions "INTRODUCTION", "SPECIAL FACTORS -- Purpose, Structure and Benefits of the Offer" and "THE TENDER OFFER" in the Offer to Purchase is incorporated herein by reference.

(b) The information set forth under the caption "SPECIAL FACTORS -- Purpose, Structure and Benefits of the Offer" in the Offer to Purchase is incorporated herein by reference.

Item 5. Plans or Proposals of the Issuer or Affiliate.

(a)-(f) The answer to Item 5 of the Schedule 14D-1 is incorporated herein by reference.

(g) Not applicable.

Item 6. Source and Amount of Funds or Other Consideration.

(a), (c) and (d) The answer to Item 4 of the Schedule 14D-1 is incorporated herein by reference.

(b) The information set forth under the caption "THE TENDER OFFER -- Fees and Expenses" in the Offer to Purchase is incorporated herein by reference.

Item 7. Purpose(s), Alternatives, Reasons and Effects.

(a) The answer to Item 5 of the Schedule 14D-1 is incorporated herein by reference.

(b) The information set forth under the captions "SPECIAL FACTORS -- Background of the Offer" and "SPECIAL FACTORS -- Reasons for the Offer" in the Offer to Purchase is incorporated herein by reference.

(c) The information set forth under the captions "SPECIAL FACTORS -- Background of the Offer", "SPECIAL FACTORS -- Purpose, Structure and Benefits of the Offer" and "SPECIAL FACTORS -- Reasons for the Offer" in the Offer to Purchase is incorporated herein by reference.

(d) The information set forth under the captions "SPECIAL FACTORS -- Purpose, Structure and Benefits of the Offer", "SPECIAL FACTORS -- Plans for the Company After the Offer", "SPECIAL FACTORS -- Certain Effects of the Offer" and "SPECIAL FACTORS -- Federal Income Tax Consequences to Shareholders" in the Offer to Purchase is incorporated herein by reference.

Item 8. Fairness of the Transaction.

(a) - (e) The information set forth under the captions "SPECIAL FACTORS -- Background of the Offer", "SPECIAL FACTORS -- Fairness of the Offer" and "SPECIAL FACTORS -- Position of the Company with Respect to the Offer" in the Offer to Purchase is incorporated herein by reference.

(f) Not applicable.

Item 9. Reports, Opinions, Appraisals and Certain Negotiations.

The information set forth under the captions "SPECIAL FACTORS -- Fairness of the Offer" and "SPECIAL FACTORS -- The Financial Advisors" in the Offer to Purchase is incorporated herein by reference.

Item 10. Interest in Securities of the Issuer.

The answer to Item 6 of the Schedule 14D-1 is incorporated herein by reference.

Item 11. Contracts, Arrangements or Understandings with Respect to the Issuer's Securities.

The answer to Item 7 of the Schedule 14D-1 is incorporated herein by reference.

Item 12. Present Intention and Recommendation of Certain Persons with Regard to the Transaction.

The information set forth under the captions "SPECIAL FACTORS -- Purpose, Structure and Benefits of the Offer" and "SPECIAL FACTORS -- Position of the Company with Respect to the Offer" in the Offer to Purchase is incorporated herein by reference.

Item 13. Other Provisions of the Transaction.

(a) The information set forth under the caption "SPECIAL FACTORS -- Purpose, Structure and Benefits of the Offer" in the Offer to Purchase, and in Schedule II thereto, is incorporated herein by reference.

(b) and (c) Not applicable.

Item 14. Financial Information.

(a) The information set forth under the caption "THE COMPANY -- Historical Summary Financial Information" in the Offer to Purchase is incorporated herein by reference. In addition, the financial statements annexed hereto as Exhibit (h) are incorporated herein by reference.

(b) Not material.

Item 15. Persons and Assets Employed, Retained or Utilized.

(a) The information set forth under the captions "SPECIAL FACTORS -- Purpose, Structure and Benefits of the Offer", "SPECIAL FACTORS -- Reasons for the Offer" and "SPECIAL FACTORS -- Plans for the Company After the Offer" in the Offer to Purchase is incorporated herein by reference.

(b) The answer to Item 8 of the Schedule 14D-1 is incorporated herein by reference.

Item 16. Additional Information.

The answer to Item 10(f) of the Schedule 14D-1 is incorporated herein by reference.

Item 17. Material to be Filed as Exhibits.

- (a) See Exhibit (b) to the Schedule 14D-1.
- (b) Report of Goldman, Sachs & Co., dated March 25, 1987.
- (c) (1) See Exhibit (c) to the Schedule 14D-1.
- (d) See Exhibits (a) (1)-(9) to the Schedule 14D-1.
- (e) See Schedule II to the Offer to Purchase.
- (f) Not applicable.
- (g) Schedule 14D-1.
- (h) Consolidated Financial Statements of the Company and its subsidiaries, as excerpted from the Company's 1986 Annual Report to Shareholders.
- (i) See Exhibit (h) to the Schedule 14D-1.

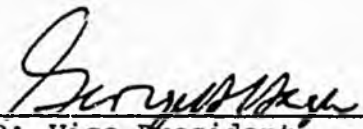
SIGNATURE

After due inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: April 1, 1987

BP NORTH AMERICA INC.

By



Title: Vice President

EXHIBIT INDEX

<u>Exhibit</u>	<u>Description</u>	<u>Page</u>
(a)	See Exhibit (b) to the Schedule 14D-1.	150
(b)	Report of Goldman, Sachs & Co., dated March 25, 1987.	13
(c) (1)	See Exhibit (c) to the Schedule 14D-1.	201
(d)	See Exhibits (a) (1)-(9) to the Schedule 14D-1.	75
(e)	See Schedule II to the Offer to Purchase.	114
(f)	Not applicable.	.
(g)	Schedule 14D-1.	65
(h)	Consolidated Financial Statements of the Company and its subsidiaries, as excerpted from the Company's 1986 Annual Report to Shareholders.	266
(i)	See Exhibit (h) to the Schedule 14D-1.	244

EXHIBIT (b)