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PRUDHOE BAY -- PUBLIC DATA, 18.03 PER BBL, ST INC TAX IS APPORTIONED

AGO 531182 (+

EXICUN DATA RECORD IMAGES

C, 1, 1, .500, .0, 2*0, 1, 2*0, 25, 3*0, AD VAL DOLS, INC TAX DOLS, /
 T, 1971 /
 P, 1969, 1, 1974, 1, 48 /
 Y, 5*1 /
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 400.2.1.1985,1985, 82/
 400.2.1.1986,1986, 21/
 450.1.4*0.1969,900.2*0, 1977,-225/
 8/

CASE TYPE= ROUTINE, CASE NUMBER -	500
MID-YEAR DISCOUNTING	- YES
DEPLETION KEY	- 0
CALCULATING ECD LIMIT	- NO
BOOK ECONOMICS	- NO
ZONES	- 4
COMMODITIES	- 2
POTENTIAL LIFE, YEARS	- 38
YEAR 1969 FACTORS	
INTEREST	
WORKING-	1.0000
NET	- 0.8750
CUST	- 1.0000
EXPENSE-	1.0000
OVERHEAD	
INVESTMENT(INCL.D.H.CST)-	0.0
DIRECT OPNG EXPENSE	- 0.0

AGU 531184

CASE 500 ZONE PRODUCTION SCHEDULES (GROSS VALUES)

YEAR	PRO-JECT	CAL-NDAR	ZONE 1		ZONE 2		ZONE 3	
			MAIN PROD OIL MBBL /YR	ASSOC PROD	MAIN PROD GAS RCF/YR	ASSOC PROD	MAIN PROD AD OIL MBBL/YR	ASSOC PROD
1	1969		0.0	0.0	0.0	0.0	0.0	0.0
2	1970		0.0	0.0	0.0	0.0	0.0	0.0
3	1971		0.0	0.0	0.0	0.0	0.0	0.0
4	1972		0.0	0.0	0.0	0.0	0.0	0.0
5	1973		0.0	0.0	0.0	0.0	0.0	0.0
6	1974		0.0	0.0	0.0	0.0	0.0	0.0
7	1975		0.0	0.0	0.0	0.0	10.000	0.0
8	1976		0.0	0.0	0.0	0.0	26.000	0.0
9	1977		146.000	0.0	0.0	0.0	273.000	0.0
10	1978		438.000	0.0	0.0	0.0	313.000	0.0
11	1979		438.000	0.0	0.0	0.0	64.000	0.0
12	1980		573.000	0.0	0.0	0.0	67.000	0.0
13	1981		573.000	0.0	0.0	0.0	71.000	0.0
14	1982		573.000	0.0	0.0	0.0	79.000	0.0
15	1983		573.000	0.0	0.0	0.0	84.000	0.0
16	1984		573.000	0.0	0.730	0.0	88.000	0.0
17	1985		573.000	0.0	0.730	0.0	87.000	0.0
18	1986		548.000	0.0	0.730	0.0	83.000	0.0
19	1987		521.000	0.0	0.730	0.0	73.000	0.0
20	1988		460.000	0.0	0.730	0.0	64.000	0.0
21	1989		394.000	0.0	0.730	0.0	56.000	0.0
22	1990		336.000	0.0	0.730	0.0	50.000	0.0
23	1991		262.000	0.0	0.730	0.0	47.000	0.0
24	1992		204.000	0.0	0.730	0.0	43.000	0.0
25	1993		159.000	0.0	0.730	0.0	40.000	0.0
26	1994		124.000	0.0	0.730	0.0	37.000	0.0
27	1995		97.000	0.0	0.730	0.0	34.000	0.0
28	1996		91.000	0.0	0.730	0.0	30.000	0.0
29	1997		82.000	0.0	0.730	0.0	27.000	0.0
30	1998		74.000	0.0	0.730	0.0	24.000	0.0
31	1999		67.000	0.0	0.730	0.0	21.000	0.0
32	2000		60.000	0.0	0.730	0.0	18.000	0.0
33	2001		54.000	0.0	0.730	0.0	15.000	0.0
34	2002		48.000	0.0	0.730	0.0	12.000	0.0
35	2003		43.000	0.0	0.730	0.0	9.000	0.0
36	2004		39.000	0.0	0.730	0.0	6.000	0.0
37	2005		35.000	0.0	0.730	0.0	3.000	0.0
38	2006		0.0	0.0	0.730	0.0	0.0	0.0
TOTALS			8157.00	0.0	17.52	0.0	1857.00	0.0

YEAR MAIN PROD ASSOC PROD

ZONE 4

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PRO-JECT	CAL-NDAR	INC TAX MDOLS/YR	
1	1969	0.0	0.0
2	1970	0.0	0.0
3	1971	0.0	0.0
4	1972	0.0	0.0
5	1973	0.0	0.0
6	1974	0.0	0.0
7	1975	0.0	0.0
8	1976	0.0	0.0
9	1977	31.100	0.0
10	1978	43.000	0.0
11	1979	47.000	0.0
12	1980	57.000	0.0
13	1981	67.400	0.0
14	1982	75.400	0.0
15	1983	80.900	0.0
16	1984	85.500	0.0
17	1985	103.700	0.0
18	1986	106.200	0.0
19	1987	108.000	0.0
20	1988	109.000	0.0
21	1989	109.000	0.0
22	1990	109.000	0.0
23	1991	109.000	0.0
24	1992	109.000	0.0
25	1993	109.000	0.0
26	1994	109.000	0.0
27	1995	109.000	0.0
28	1996	100.000	0.0
29	1997	103.000	0.0
30	1998	100.000	0.0
31	1999	95.000	0.0
32	2000	50.000	0.0
33	2001	85.000	0.0
34	2002	80.000	0.0
35	2003	75.000	0.0
36	2004	70.000	0.0
37	2005	65.000	0.0
38	2006	60.000	0.0
TOTALS		2625.40	0.0

PRUDHOE BAY -- PUBLIC DATA, \$8.03 PER BBL, ST INC TAX IS APPORTIONED

CASE 500 PROJECT INTEREST FACTORS (FRACTIONS)

YEAR PRU- CAL- JECT ENDAR	PROD/REVNUE		INVEST W.I.	EXPENSE W.I.	CARRY/TRADE OPTION (FRACTIONS)		PRODUCTION OPTION CUM PROD
	W.I.	N.I.			INVEST RECEIV- ERY	MARGIN ALLOC- ATED	
1 1969	1.0000	0.8750	1.0000	1.0000			

AGO 531187

PRUDHOE BAY -- PUBLIC DATA. \$8.03 PER BBL. ST INC TAX IS APPORTIONED

CASE 500 INVESTMENTS (GROSS VALUES)

CAL- ENDAR YEAR	TYPE INVEST	INVLST CATGY	AMOUNT M\$	SER- VICE YEAR	****SALVAGE**** YEAR	AMOUNT M\$	PER- CENT	PCT TAX CREDIT	DEPRECIATION TYPE	LIFE YRS	PCT DCL BAL	INVEST OVHD RATE \$/%
1969	TANG-N	DRILL	37.0	1977	0	0.0	0.0	7.0	GDLN			
1970	TANG-N	DRILL	56.0	1977	0	0.0	0.0	7.0	GDLN			
1971	TANG-N	DRILL	76.0	1977	0	0.0	0.0	7.0	GDLN			
1972	TANG-N	DRILL	31.0	1977	0	0.0	0.0	7.0	GDLN			
1973	TANG-N	DRILL	59.0	1977	0	0.0	0.0	7.0	GDLN			
1974	TANG-N	DRILL	227.0	1977	0	0.0	0.0	7.0	GDLN			
1975	TANG-N	DRILL	809.0	1977	0	0.0	0.0	10.0	GDLN			
1976	TANG-N	DRILL	1183.0	1977	0	0.0	0.0	10.0	GDLN			
1977	TANG-N	DRILL	512.0	1977	0	0.0	0.0	7.0	GDLN			
1978	TANG-N	DRILL	377.0	1978	0	0.0	0.0	7.0	GDLN			
1979	TANG-N	DRILL	346.0	1979	0	0.0	0.0	7.0	GDLN			
1980	TANG-N	DRILL	461.0	1980	0	0.0	0.0	7.0	GDLN			
1981	TANG-N	DRILL	670.0	1981	0	0.0	0.0	7.0	GDLN			
1982	TANG-N	DRILL	627.0	1982	0	0.0	0.0	7.0	GDLN			
1983	TANG-N	DRILL	629.0	1983	0	0.0	0.0	7.0	GDLN			
1984	TANG-N	DRILL	497.0	1984	0	0.0	0.0	7.0	GDLN			
1985	TANG-N	DRILL	343.0	1985	0	0.0	0.0	7.0	GDLN			
1986	TANG-N	DRILL	129.0	1986	0	0.0	0.0	7.0	GDLN			
1988	TANG-N	DRILL	300.0	1988	0	0.0	0.0	7.0	GDLN			
1990	TANG-N	DRILL	300.0	1990	0	0.0	0.0	7.0	GDLN			
1991	TANG-N	DRILL	191.0	1991	0	0.0	0.0	7.0	GDLN			
1993	TANG-N	DRILL	81.0	1993	0	0.0	0.0	7.0	GDLN			
1969	INTANG	DRILL	48.0	1977								
1970	INTANG	DRILL	64.0	1977								
1971	INTANG	DRILL	38.0	1977								
1972	INTANG	DRILL	5.0	1977								
1973	INTANG	DRILL	10.0	1977								
1974	INTANG	DRILL	37.0	1977								
1975	INTANG	DRILL	132.0	1977								
1976	INTANG	DRILL	192.0	1977								
1977	INTANG	DRILL	90.0	1977								
1978	INTANG	DRILL	90.0	1978								
1979	INTANG	DRILL	90.0	1979								
1980	INTANG	DRILL	90.0	1980								
1981	INTANG	DRILL	90.0	1981								
1982	INTANG	DRILL	90.0	1982								
1983	INTANG	DRILL	88.0	1983								
1984	INTANG	DRILL	82.0	1984								
1985	INTANG	DRILL	82.0	1985								
1986	INTANG	DRILL	21.0	1986								

TOTAL TANGIBLE (NEW) INVESTMENT (M\$)	7941.0
TOTAL TANGIBLE (USED) INVESTMENT (M\$)	0.0
TOTAL SALVAGE (M\$)	0.0
TOTAL INTANGIBLE INVESTMENT (M\$)	1339.0

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PROPERTY PURCHASES/SURRENDERS

CAL- ENDAR YEAR	LEASEHOLD BONUS M\$	GGG M\$	EQUIP- MENT M\$
INI- TIAL	0.0	0.0	0.0
1969	900.0	0.0	0.0
1977	-225.0	0.0	0.0

AGO 531189

PRUDHOE HAY -- PUBLIC DATA, 18.03 PER HDL, ST INC TAX IS APPORTIONED

CASE 500 LOCAL TAXES, TARIFF

AD VALOREM TAX

NONE

PRODUCTION TAX

OIL	PROD	GAS	PROD
YEAR	\$/B	YEAR	\$/B
1969	0.037	1969	0.040
1981	0.047	0	0.0
1982	0.075	0	0.0
1985	0.073	0	0.0
1990	0.070	0	0.0
1995	0.065	0	0.0

* SPECIAL CHARGE SCHEDULE *

OIL/CONDENS. TARIFF	GAS/G.LIO. SEVERANCE
------------------------	-------------------------

NONE

AGO 531190

PRUDHOE BAY -- PUBLIC DATA. \$8.03 PER BBL. ST INC TAX IS APPORTIONED

CASE 500 PRODUCT PRICE SCHEDULE

YEAR		OIL	GAS	AD VAL	INC TAX
PRO- JECT	CAL- ENDR	\$/BBL	\$/MCF	\$/DOLS	\$/DOLS
1	1969	6.450	0.852	-1.143	-1.143
10	1978	6.670	0.852	-1.143	-1.143
11	1979	7.280	0.852	-1.143	-1.143
13	1981	7.780	0.852	-1.143	-1.143
17	1985	8.030	0.852	-1.143	-1.143

AGD 531191

PRUDHOE BAY -- PUBLIC DATA, \$8.03 PER BBL, ST INC TAX IS APPORTIONED

CASE 500 DIRECT EXPENSE FACTORS

NONE

FIXED AND NON-RECURRING EXPENSE

CALNDAR YEAR	Mt
1976	44.0
1977	129.0
1978	133.0
1979	145.0
1980	149.0
1981	240.0
1982	252.0
1983	248.0
1984	261.0
1985	318.0
1986	321.0
1987	315.0
1988	323.0
1989	313.0
1990	308.0
1991	297.0
1992	286.0
1993	280.0
1994	271.0
1995	270.0
1996	235.0
1997	233.0
1998	234.0
1999	232.0
2000	232.0
2001	114.0
2002	111.0
2003	108.0
2004	106.0
2005	104.0
2006	24.0

AGO 531192

PRUDHOE BAY -- PUBLIC DATA, \$8.03 PER BRL, ST INC TAX IS APPORTIONED

CASE 500 YEARLY ANALYSIS OF NET INCOME AND PRODUCTION

YEAR PRO-JECT	CAL- ENDAR	OIL			GAS		
		W.I. PRUD MBBL /YR	N.I. PRUD MBBL /YR	NET INCOME M\$/YR	W.I. PRUD MMMCF/YR	N.I. PRUD MMMCF/YR	NET INCOME M\$/YR
1	1969	0.0	0.0	0.0	0.0	0.0	0.0
2	1970	0.0	0.0	0.0	0.0	0.0	0.0
3	1971	0.0	0.0	0.0	0.0	0.0	0.0
4	1972	0.0	0.0	0.0	0.0	0.0	0.0
5	1973	0.0	0.0	0.0	0.0	0.0	0.0
6	1974	0.0	0.0	0.0	0.0	0.0	0.0
7	1975	0.0	0.0	0.0	0.0	0.0	0.0
8	1976	0.0	0.0	0.0	0.0	0.0	0.0
9	1977	146.0	127.7	824.0	0.0	0.0	0.0
10	1978	438.0	383.2	2556.3	0.0	0.0	0.0
11	1979	438.0	383.2	2790.1	0.0	0.0	0.0
12	1980	573.0	501.4	3650.0	0.0	0.0	0.0
13	1981	573.0	501.4	3900.7	0.0	0.0	0.0
14	1982	573.0	501.4	3900.7	0.0	0.0	0.0
15	1983	573.0	501.4	3900.7	0.7	0.6	544.2
16	1984	573.0	501.4	3900.7	0.7	0.6	544.2
17	1985	573.0	501.4	4026.0	0.7	0.6	544.2
18	1986	548.0	474.5	3850.4	0.7	0.6	544.2
19	1987	521.0	455.9	3660.7	0.7	0.6	544.2
20	1988	460.0	402.5	3232.1	0.7	0.6	544.2
21	1989	394.0	344.7	2768.3	0.7	0.6	544.2
22	1990	336.0	294.0	2360.8	0.7	0.6	544.2
23	1991	262.0	229.2	1640.9	0.7	0.6	544.2
24	1992	204.0	178.5	1433.4	0.7	0.6	544.2
25	1993	159.0	139.1	1117.2	0.7	0.6	544.2
26	1994	124.0	108.5	871.3	0.7	0.6	544.2
27	1995	97.0	84.9	681.5	0.7	0.6	544.2
28	1996	91.0	79.6	639.4	0.7	0.6	544.2
29	1997	82.0	71.7	576.2	0.7	0.6	544.2
30	1998	74.0	64.7	519.9	0.7	0.6	544.2
31	1999	66.0	57.7	463.7	0.7	0.6	544.2
32	2000	60.0	52.5	421.6	0.7	0.6	544.2
33	2001	54.0	47.2	379.4	0.7	0.6	544.2
34	2002	48.0	42.0	337.3	0.7	0.6	544.2
35	2003	43.0	37.6	302.1	0.7	0.6	544.2
36	2004	39.0	34.1	274.0	0.7	0.6	544.2
37	2005	35.0	30.6	245.9	0.7	0.6	544.2
38	2006	0.0	0.0	0.0	0.7	0.6	544.2
TOTALS		8156.9	7137.3	55425.1	17.5	15.3	13061.1

AGO 531193

YEAR PRO-JECT	CAL- ENDAR	AD VAL			INC TAX			TOTAL INCOME
		W.I. PRUD	N.I. PRUD	NET INCOME	W.I. PRUD	N.I. PRUD	NET INCOME	

JECT	ENDAR	MDOLS/YR	MDOLS/YR	M\$/YR	MDOLS/YR	MDOLS/YR	M\$/YR	M\$/YR
1	1969	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1970	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1971	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1974	10.0	8.7	-10.0	0.0	0.0	0.0	0.0
7	1975	26.0	22.7	-26.0	0.0	0.0	0.0	-10.0
8	1976	273.0	238.9	-273.0	0.0	0.0	0.0	-26.0
9	1977	313.0	272.9	-313.0	31.1	27.2	-31.1	-273.0
10	1978	64.0	56.0	-64.0	43.0	37.6	-43.0	479.8
11	1979	67.0	58.6	-67.0	47.9	41.9	-47.9	2449.3
12	1980	71.0	62.1	-71.0	57.9	50.7	-57.9	2675.1
13	1981	76.0	69.1	-76.0	67.4	59.0	-67.4	3521.1
14	1982	84.0	73.5	-84.0	76.4	66.8	-76.4	3754.3
15	1983	88.0	77.0	-88.0	86.9	76.0	-86.9	3740.3
16	1984	87.0	76.1	-87.0	95.8	83.8	-95.8	4270.0
17	1985	83.0	72.6	-83.0	103.7	90.7	-103.7	4262.1
18	1986	73.0	63.9	-73.0	106.3	93.0	-106.3	4343.5
19	1987	64.0	56.0	-64.0	108.0	94.5	-108.0	4215.3
20	1988	56.0	49.0	-56.0	109.0	95.4	-109.0	4032.9
21	1989	50.0	43.7	-50.0	109.0	95.4	-109.0	3611.3
22	1990	47.0	41.1	-47.0	109.0	95.4	-109.0	3153.5
23	1991	43.0	37.6	-43.0	109.0	95.4	-109.0	2749.0
24	1992	40.0	35.0	-40.0	109.0	95.4	-109.0	2233.1
25	1993	37.0	32.4	-37.0	109.0	95.4	-109.0	1823.6
26	1994	34.0	29.7	-34.0	109.0	95.4	-109.0	1515.4
27	1995	30.0	26.2	-30.0	109.0	95.4	-109.0	1272.5
28	1996	27.0	23.6	-27.0	106.0	92.7	-106.0	1066.7
29	1997	24.0	21.0	-24.0	103.0	90.1	-103.0	1050.6
30	1998	21.0	18.4	-21.0	100.0	87.5	-100.0	993.4
31	1999	18.0	15.7	-18.0	95.0	83.1	-95.0	943.1
32	2000	15.0	13.1	-15.0	90.0	78.7	-90.0	894.9
33	2001	12.0	10.5	-12.0	85.0	74.4	-85.0	860.8
34	2002	9.0	7.9	-9.0	80.0	70.0	-80.0	826.6
35	2003	6.0	5.2	-6.0	75.0	65.6	-75.0	792.5
36	2004	3.0	2.6	-3.0	70.0	61.2	-70.0	765.3
37	2005	3.0	2.6	-3.0	65.0	56.9	-65.0	745.2
38	2006	0.0	0.0	0.0	60.0	52.5	-60.0	722.1
TOTALS		1857.0	1624.9	-1857.2	2625.4	2297.2	-2625.7	64003.3

AGO 531194

PRUDHOE BAY -- PUBLIC DATA, \$8.03 PER BRL, ST INC TAX IS APPORTIONED

CASE 500 YEARLY ANALYSIS OF NET EXPENSES

YEAR PRO- CAL- JLCT ENDAH	DIRECT EXPENSE M\$/YR	ESCA- LATION RATE FACTOR	ESCA- LATED DIRECT EXPENSE M\$/YR	PROD/ AD VAL. TAXES, TARIFF M\$/YR	INDIRECT EXPENSE M\$/YR	TOTAL EXPENSE M\$/YR
8 1976	44.0	1.000	44.0	0.0	0.0	44.0
9 1977	129.0	1.000	129.0	30.9	0.0	159.9
10 1978	133.0	1.000	133.0	95.9	0.0	228.9
11 1979	145.0	1.000	145.0	104.6	0.0	249.6
12 1980	149.0	1.000	149.0	136.9	0.0	285.9
13 1981	240.0	1.000	240.0	184.9	0.0	424.9
14 1982	252.0	1.000	252.0	292.6	0.0	544.6
15 1983	248.0	1.000	248.0	314.3	0.0	562.3
16 1984	261.0	1.000	261.0	314.3	0.0	575.3
17 1985	318.0	1.000	318.0	315.7	0.0	633.7
18 1986	321.0	1.000	321.0	302.8	0.0	623.8
19 1987	319.0	1.000	319.0	289.0	0.0	608.0
20 1988	323.0	1.000	323.0	257.7	0.0	580.7
21 1989	312.0	1.000	313.0	223.9	0.0	536.9
22 1990	308.0	1.000	308.0	187.0	0.0	495.0
23 1991	297.0	1.000	297.0	150.6	0.0	447.6
24 1992	286.0	1.000	286.0	122.1	0.0	408.1
25 1993	280.0	1.000	280.0	100.0	0.0	380.0
26 1994	271.0	1.000	271.0	82.8	0.0	353.8
27 1995	270.0	1.000	270.0	66.1	0.0	336.1
28 1996	235.0	1.000	235.0	63.3	0.0	298.3
29 1997	233.0	1.000	233.0	59.2	0.0	292.2
30 1998	234.0	1.000	234.0	55.6	0.0	289.6
31 1999	232.0	1.000	232.0	51.9	0.0	283.9
32 2000	232.0	1.000	232.0	49.2	0.0	281.2
33 2001	114.0	1.000	114.0	46.4	0.0	160.4
34 2002	111.0	1.000	111.0	43.7	0.0	154.7
35 2003	108.0	1.000	108.0	41.4	0.0	149.4
36 2004	106.0	1.000	106.0	39.6	0.0	145.6
37 2005	104.0	1.000	104.0	37.8	0.0	141.8
38 2006	24.0	1.000	24.0	21.8	0.0	45.8
TOTALS	6639.9		6639.9	4081.8	0.0	10721.8

AGD 531195

PRUDHOE BAY -- PUBLIC DATA, \$8.03 PER BBL, ST INC TAX IS APPORTIONED

CASE 500 YEARLY ANALYSIS OF INVESTMENTS AND SALVAGE (NET VALUES)

YEAR	PRO- CAL- JECT INDR	TANG M\$	INTANG M\$	SALVG M\$
0	1968	0.0	0.0	
1	1969	37.0	48.0	0.0
2	1970	56.0	64.0	0.0
3	1971	76.0	38.0	0.0
4	1972	31.0	5.0	0.0
5	1973	59.0	10.0	0.0
6	1974	227.0	37.0	0.0
7	1975	809.0	132.0	0.0
8	1976	1183.0	192.0	0.0
9	1977	512.0	90.0	0.0
10	1978	377.0	90.0	0.0
11	1979	346.0	90.0	0.0
12	1980	461.0	90.0	0.0
13	1981	670.0	90.0	0.0
14	1982	627.0	90.0	0.0
15	1983	629.0	88.0	0.0
16	1984	497.0	82.0	0.0
17	1985	343.0	82.0	0.0
18	1986	129.0	21.0	0.0
20	1988	300.0	0.0	0.0
22	1990	300.0	0.0	0.0
23	1991	191.0	0.0	0.0
25	1993	81.0	0.0	0.0
TOTALS		7941.0	1339.0	0.0

AGO 531196

CASE 500 YEARLY ANALYSIS OF DEPLETION ALLOWANCE

YEAR PRO-JECT	CAL-NDAR	STATUTORY DEPLETION 0.500*INCOME FOR LIMITATION			ALLOW DPLTN M\$/YR	
		COST DPLTN M\$/YR	TATION M\$/YR	PERCENT M\$/YR		
1	1969	0.0	0.0	0.0	0.0	G
2	1970	0.0	0.0	0.0	0.0	G
3	1971	0.0	0.0	0.0	0.0	G
4	1972	0.0	0.0	0.0	0.0	G
5	1973	0.0	0.0	0.0	0.0	G
6	1974	0.0	0.0	0.0	0.0	G
7	1975	0.0	0.0	0.0	0.0	G
8	1976	0.0	0.0	0.0	0.0	G
9	1977	12.1	0.0	0.0	12.1	C
10	1978	36.2	0.0	0.0	36.2	C
11	1979	36.2	0.0	0.0	36.2	C
12	1980	47.4	0.0	0.0	47.4	C
13	1981	47.4	0.0	0.0	47.4	C
14	1982	47.4	0.0	0.0	47.4	C
15	1983	47.4	0.0	0.0	47.4	C
16	1984	47.4	0.0	0.0	47.4	C
17	1985	47.4	0.0	0.0	47.4	C
18	1986	45.3	0.0	0.0	45.3	C
19	1987	43.1	0.0	0.0	43.1	C
20	1988	38.1	0.0	0.0	38.1	C
21	1989	32.6	0.0	0.0	32.6	C
22	1990	27.8	0.0	0.0	27.8	C
23	1991	21.7	0.0	0.0	21.7	C
24	1992	16.9	0.0	0.0	16.9	C
25	1993	13.2	0.0	0.0	13.2	C
26	1994	10.3	0.0	0.0	10.3	C
27	1995	6.0	0.0	0.0	6.0	C
28	1996	7.5	0.0	0.0	7.5	C
29	1997	6.8	0.0	0.0	6.8	C
30	1998	6.1	0.0	0.0	6.1	C
31	1999	5.5	0.0	0.0	5.5	C
32	2000	5.0	0.0	0.0	5.0	C
33	2001	4.5	0.0	0.0	4.5	C
34	2002	4.0	0.0	0.0	4.0	C
35	2003	3.6	0.0	0.0	3.6	C
36	2004	3.2	0.0	0.0	3.2	C
37	2005	2.9	0.0	0.0	2.9	C
38	2006	0.0	0.0	0.0	0.0	G

AGO 531197

PRUDHOF BAY -- PUBLIC DATA, \$8.03 PER BBL, ST INC TAX IS APPORTIONED

CASE 500

YEARLY ANALYSIS OF INCOME TAX

YEAR	PRO-JECT	CAL-NDAR	NET INCOME M\$ / YR	TOTAL EXPLNSE M\$ / YR	DEPREC M\$ / YR	DEPLETION ALLOW M\$ / YR	INTANG INVEST M\$ / YR	TAX CREDIT M\$ / YR	INCOME TAX M\$ / YR
0	1968			0.0			0.0		0.0
1	1969		0.0	0.0	0.0	0.0 G	48.0	0.0	-23.0
2	1970		0.0	0.0	0.0	0.0 G	64.0	0.0	-30.7
3	1971		0.0	0.0	0.0	0.0 G	38.0	0.0	-18.2
4	1972		0.0	0.0	0.0	0.0 G	5.0	0.0	-2.4
5	1973		0.0	0.0	0.0	0.0 G	10.0	0.0	-4.8
6	1974		-10.0	0.0	0.0	0.0 G	37.0	0.0	-22.0
7	1975		-26.0	0.0	0.0	0.0 G	132.0	0.0	-75.8
8	1976		-273.0	44.0	0.0	0.0 G	192.0	0.0	-244.3
9	1977		479.8	159.9	271.8	12.1 C	315.0	269.1	-403.0
10	1978		2449.3	228.9	528.5	36.2 C	90.0	26.4	725.1
11	1979		2675.1	249.6	516.3	36.2 C	90.0	24.2	831.6
12	1980		2921.1	285.5	530.5	47.4 C	90.0	32.3	1200.1
13	1981		3754.3	424.9	567.3	47.4 C	90.0	46.0	1213.0
14	1982		3740.3	544.6	607.8	47.4 C	90.0	43.9	1132.3
15	1983		4270.0	562.3	623.5	47.4 C	88.0	44.0	1300.6
16	1984		4262.1	575.3	638.4	47.4 C	82.0	34.8	1366.3
17	1985		4383.5	633.7	610.1	47.4 C	82.0	24.0	1421.0
18	1986		4215.3	623.8	544.0	45.3 C	21.0	9.0	1421.6
19	1987		4032.9	608.0	447.9	43.1 C	0.0	0.0	1408.3
20	1988		2611.3	580.7	368.8	38.1 C	0.0	21.0	1238.4
21	1989		3153.5	536.9	308.2	32.6 C	0.0	0.0	1092.4
22	1990		2749.0	495.0	270.4	27.8 C	0.0	21.0	917.6
23	1991		2233.1	447.6	253.1	21.7 C	0.0	13.4	711.7
24	1992		1828.6	408.1	209.2	16.9 C	0.0	0.0	573.3
25	1993		1515.4	380.0	165.0	13.2 C	0.0	5.7	453.8
26	1994		1272.5	353.8	130.8	10.3 C	0.0	0.0	373.3
27	1995		1086.7	336.1	98.0	8.0 C	0.0	0.0	309.4
28	1996		1050.6	298.3	74.3	7.5 C	0.0	0.0	321.8
29	1997		993.4	292.2	56.9	6.8 C	0.0	0.0	306.0
30	1998		943.1	289.6	42.9	6.1 C	0.0	0.0	290.2
31	1999		894.9	283.9	30.0	5.5 C	0.0	0.0	276.3
32	2000		860.8	281.2	19.2	5.0 C	0.0	0.0	266.6
33	2001		826.6	160.4	10.7	4.5 C	0.0	0.0	312.5
34	2002		792.5	154.7	4.4	4.0 C	0.0	0.0	302.1
35	2003		765.3	149.4	1.8	3.6 C	0.0	0.0	293.1
36	2004		745.2	145.6	0.6	3.2 C	0.0	0.0	266.0
37	2005		722.1	141.8	0.0	2.9 C	0.0	0.0	277.2
38	2006		484.2	45.8	0.0	0.0 G	0.0	0.0	210.5
TOTALS			64003.3	10721.8	7941.0	675.0	1564.0	615.6	20073.0

(PROPERTY SURRENDER AMOUNTS ARE INCLUDED IN THE INTANGIBLE INVESTMENT VALUES)

AGO 531198

CASE 500

YEARLY ANALYSIS OF NET CASH FLOW

YEAR	NET	TOTAL	INTANG	TANG	LEASE	FED	NET	CUM
PRO- CAL-	INCOME	EXPENSE	INVEST	INVEST	-HOLD	INCOME	CASH	CASH
JECT ENDAR	MS/YR	MS/YR	MS/YR	(-)SLVG	INVEST	TAX	FLOW	FLOW
				MS/YR	MS/YR	MS/YR	MS/YR	MS/YR
1 1969	0.0	0.0	48.0	37.0	900.0	-23.0	-962.0	-962.0
2 1970	0.0	0.0	64.0	56.0	0.0	-30.7	-89.3	-1051.2
3 1971	0.0	0.0	38.0	76.0	0.0	-18.2	-95.8	-1147.0
4 1972	0.0	0.0	5.0	31.0	0.0	-2.4	-33.6	-1180.6
5 1973	0.0	0.0	10.0	59.0	0.0	-4.8	-64.2	-1244.8
6 1974	-10.0	0.0	37.0	227.0	0.0	-22.6	-251.4	-1496.2
7 1975	-26.0	0.0	132.0	609.0	0.0	-75.8	-891.2	-2387.4
8 1976	-273.0	44.0	192.0	1183.0	0.0	-244.3	-1447.7	-3835.1
9 1977	479.8	159.9	90.0	512.0	0.0	-403.0	120.9	-3714.2
10 1978	2449.3	228.9	90.0	377.0	0.0	725.1	1028.3	-2685.9
11 1979	2675.1	249.6	90.0	346.0	0.0	831.6	1157.9	-1528.0
12 1980	3521.1	285.9	90.0	461.0	0.0	1200.1	1484.2	-43.8
13 1981	3754.3	424.9	90.0	670.0	0.0	1213.0	1356.4	1312.6
14 1982	3740.3	544.6	90.0	627.0	0.0	1132.3	1346.4	2659.0
15 1983	4270.0	562.3	88.0	629.0	0.0	1366.6	1624.1	4283.1
16 1984	4262.1	575.3	82.0	497.0	0.0	1366.3	1741.4	6024.5
17 1985	4383.5	633.7	82.0	343.0	0.0	1421.0	1903.9	7928.4
18 1986	4215.3	623.8	21.0	129.0	0.0	1421.6	2019.8	9948.2
19 1987	4032.9	606.0	0.0	0.0	0.0	1408.2	2016.6	11964.8
20 1988	3611.3	580.7	0.0	300.0	0.0	1238.4	1492.2	12457.0
21 1989	3153.5	536.9	0.0	0.0	0.0	1092.4	1524.3	14981.3
22 1990	2745.0	495.0	0.0	300.0	0.0	917.8	1036.2	16017.5
23 1991	2235.1	447.6	0.0	191.0	0.0	711.7	882.7	16900.2
24 1992	1828.6	408.1	0.0	0.0	0.0	573.3	847.2	17747.4
25 1993	1515.4	380.0	0.0	81.0	0.0	453.8	600.6	18347.9
26 1994	1272.5	353.8	0.0	0.0	0.0	373.2	545.4	18893.4
27 1995	1086.7	326.1	0.0	0.0	0.0	309.4	441.2	19334.6
28 1996	1050.6	298.3	0.0	0.0	0.0	321.8	430.5	19765.1
29 1997	993.4	292.2	0.0	0.0	0.0	306.0	395.1	20160.2
30 1998	943.1	289.6	0.0	0.0	0.0	290.2	363.4	20523.6
31 1999	894.9	283.9	0.0	0.0	0.0	276.3	334.7	20858.3
32 2000	860.8	281.2	0.0	0.0	0.0	266.6	313.0	21171.3
33 2001	826.6	160.4	0.0	0.0	0.0	312.5	353.7	21525.0
34 2002	792.5	154.7	0.0	0.0	0.0	302.1	335.7	21860.7
35 2003	765.3	149.4	0.0	0.0	0.0	293.1	322.9	22183.6
36 2004	745.2	145.6	0.0	0.0	0.0	286.0	313.7	22497.2
37 2005	722.1	141.8	0.0	0.0	0.0	277.2	303.2	22800.4
38 2006	464.2	45.8	0.0	0.0	0.0	210.5	228.0	23028.4
TOTALS	64003.3	10721.8	1339.0	7941.0	900.0	20073.0	23028.4	

AGD 531199

PRUDHOE DAY -- PUBLIC DATA, 58.03 PER DBL, ST INC TAX IS APPORTIONED

CASE 500

PRESENT VALUE PROFILE

DISCOUNT RATE PERCENT	PRESENT VALUE PROFIT-M\$	DISCOUNT RATE PERCENT	PRESENT VALUE PROFIT-M\$
0.	23026.4	1.	18631.0
2.	15112.9	3.	12280.9
4.	9987.8	5.	8121.1
6.	6593.6	7.	5337.9
8.	4301.4	9.	3442.5
10.	2726.1	12.	1633.3
14.	865.2	15.	566.8
16.	316.7	18.	-73.5
20.	-353.1	30.	-921.7
40.	-995.5	50.	-962.8
60.	-911.8	70.	-863.1
80.	-821.0	90.	-785.1
100.	-754.3		

INVESTMENT YARDSTICKS

PAYOUT PERIOD = 12.03 YEARS

INVESTOR'S RATE OF RETURN = 17.57 PERCENT

RATIO, UNDISCOUNTED PROFIT TO INITIAL INVESTMENT (RFIT)=0.0

PVP AT 25.00 PERCENT = -753.025 PVPI NOT CALCULATED

AGO 531200

PRUDHOE BAY -- PUBLIC DATA, \$8.03 PER DBL. ST INC TAX IS APPORTIONED

CASE 500 ABBREVIATED RESULT TABLE

PROJECT INITIATION DATE = 1/69
DATE OF FIRST PRODUCTION = 1/74

PRODUCTION/REVENUE

	W.I. PROD	N.I. PROD	N.I. REVENUE M\$
OIL (MBBL)	8156.9	7137.3	55425.1
GAS (BCF)	17.520	15.330	13061.090
AD VAL (MDOLS)	1857.0	1624.9	-1857.2
INC TAX (MDOLS)	2625.4	2297.2	-2625.7

SUMMARY RESULTS (M\$)

TOTAL INCOME	TOTAL EXPENSE	TOTAL INVEST	TOTAL TAX	NET INCOME
64003.3	10721.8	10179.9	20073.0	23028.4

INVESTMENT YARDSTICKS

PAYOUT PERIOD = 12.03 YEARS

INVESTOR'S RATE OF RETURN = 17.57 PERCENT

RATIO, UNDISCOUNTED PROFIT TO INITIAL INVESTMENT (BFIT)=0.0

PVP AT 25.00 PERCENT = -753.025

PVPI NOT CALCULATED

AGO 531201

PRUDHUE HAY -- PUBLIC DATA, 3.8.03 PER BBL, ST INC TAX IS APPORTIONED

CASE 500 SUMMARY RESULT TABLE

PROJECT INITIATION DATE = 1/69
 DATE OF FIRST PRODUCTION = 1/74

PRODUCTION/REVENUE	W.I. PROD	N.I. PROD	N.I. REVENUE M\$
OIL (MBO)	8156.9	7137.3	55425.1
GAS (PCF)	17.520	15.330	13061.090
AD VAL (MDOLS)	1857.0	1624.9	-1857.2
INC TAX (MDOLS)	2625.4	2297.2	-2625.7

PROJECT INTEREST FACTORS (FRACTIONS)

YEAR	PRO- CAL- JECT ENDAR	PRD/REVNU W.I. N.I.	INVEST W.I.	EXPENSE W.I.
1 1969		1.0000 0.6750	1.0000	1.0000

SUMMARY ECONOMICS (M\$)

REVENUE	64003.3
INVESTMENT	
TANGIBLE	7941.0
INTANGIBLE	1339.0
LEASEHOLD	900.0
DRY HOLE	0.0
SALVAGE	0.0
TOTAL	10179.9
EXPENSE	
DIRECT	6639.9
PRODZAD VALORLM	
TAXES, TARIFF	4081.8
INDIRECT	0.0
TOTAL	10721.8
BEFIT PROFIT	43101.6
INCOME TAX	20073.0
NET PROFIT	23028.4

INVESTMENT YARDSTICKS

PAYOUT PERIOD = 12.03 YEARS

INVESTOR'S RATE OF RETURN = 17.57 PERCENT

RATIO, UNDISCOUNTED PROFIT TO INITIAL INVESTMENT (BFIT)=0.0

PVP AT 25.00 PERCENT = -753.025 PVPI NOT CALCULATED

AGO 531202

: PLEASE NOTE: THE PRECEDING PAGES WERE TREATED
AS A UNIT IN THE ORIGINAL DOCUMENT.

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EXXON 1977
calculations

PRUDHOE BAY PROJECT ECONOMICS
GENERATED FROM PUBLICLY AVAILABLE DATA

<u>Page</u>	
1	Major Sources of Data and Data Items
3	DCF Rate of Return
4	Division of Field Level Income
5	Wellhead Prices
7	Field Expenses; Oil Production Tax
8	Historical Field Capital Expenditures
10	Historical and Projected Field Capital Expenditures and Ad Val Tax
11	Field Book Depreciation
12	Data on Chase Group of Petroleum Companies
13	State Income Tax.
14	Tanker Economic Bases

Computer Output: Field Economics

AGO 531203

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NORTH SLOPE ECONOMICS CONSTRUCTED FROM PUBLICLY AVAILABLE DATA
MAJOR SOURCES OF DATA AND DATA ITEMS

A. Data Sources:

1. Field Economics

- a. Future production rates, investments, operating costs and oil wellhead prices: State of Alaska's reserves tax study, February 9, 1976, with all data deescalated to 1976 dollars.
- b. Gas prices: Price at pipeline inlet of \$1.46/MMBtu from February 1977 advance submission to Canadian NEB by Mr. Radford Shantz, Foster Associates. Cost of Service expense for gas gathering-conditioning of \$0.75/MMBtu is based on producer testimony that the cost of service would be about 1/3 of combined gathering-conditioning-transportation costs of service.
- c. Historical investments:
 - Sohio/BP Trans Alaska Pipeline Finance, Inc. Prospectus, December 4, 1974;
 - The Standard Oil Company (Ohio) Prospectus, December 2, 1976;
 - City of Valdez, Alaska, % Marine Revenue Bonds (ARCO Pipe Line Company Project) Preliminary Official Statement, January 27, 1977.

2. TAPS Economics

- a. Total cost: Alyeska announcements.
- b. TAPS will be a regulated concern. Tariffs allowed under ICC rules result in DCF returns from 12 to 14%.

3. Tanker Economics: Consultant reports to FEA, November 1976 (Mortada Study).

10% Return on Investment

AGD 531204

NORTH SLOPE ECONOMICS CONSTRUCTED FROM PUBLICLY AVAILABLE DATA
MAJOR SOURCES OF DATA AND DATA ITEMS (Continued)

B. Major Data Items:

1. Tanker Investment: \$1,760MM
2. TAPS Investment - for 1.2 MMB/D: \$7,700MM
- for 1.6 MMB/D: \$8,375MM
3. Field Investment - initial: \$3,610MM
- ultimate: \$9,280MM
4. Oil Production - Reserves: 8.2 Billion Bbl
- Peak Rate: 1.6 MMB/D
5. Gas Sales - First Year: 1983
- Rate: 2.0 Bcf/D
6. Wellhead Prices - Oil:

1978	\$6.67
1980	\$7.28
1985	\$8.03
Average \$7.77/Bbl	

Gas: All Years \$0.852/Mcf (\$0.071/MMBtu) (Separator Outlet)

- C. Integrated DCF Rate of Return: 14.5%

PUBLIC DATA CASE
INTEGRATED RATE OF RETURN
 (Investment Weighting Technique)

	<u>Investment</u> MM\$	<u>DCF</u> <u>Rate of Return*</u>
Field & Bonus	10,180	17.6
TAPS	8,375	12.0
Tankers	<u>1,760</u>	10.0
Total	20,315	14.5

Estimated & weighted

* Total Capital Employed Basis

AG0 531206

PUBLIC DATA CASE
DIVISION OF PRUDHOE BAY FIELD LEVEL INCOME

		<u>1976 Outlook</u>		<u>1969</u>
		<u>MM\$</u>	<u>%</u>	<u>Outlook</u>
				<u>%</u>
Wellhead Value (8/8):	Oil	63,343		
	Gas	<u>14,927</u>		
	Total	78,270		
	Field Investments	-9,280		
	Field Operating Costs	<u>-6,640</u>		
	Field Level Income	62,350		
State:	Royalty	9,784		
	Bonus	900		
	Production Tax	4,082		
	Ad Valorem Tax	1,857		
	Income Tax	<u>2,626</u>		
	Total	19,249	31	23
	Federal Government	20,073	32	25
	Oil Companies	<u>23,028</u>	<u>37</u>	<u>52</u>
		62,350	100	100

AGO 531207

PUBLIC DATA CASE
WELLHEAD PRICES
1967 CONSTANT DOLLAR BASIS
\$/Bbl

Year	Wellhead Price Used In Reserves <u>Tax Study</u>	Reference Price Escalation (a)	Constant Dollar Wellhead Price <u>(a)</u>
1976			
1977	7.58	1.13	6.45
1978	8.52	0.72	6.67
1979	10.00	0.87	7.28
1980	10.42	0.42	7.28
1981	11.35	0.43	7.78
1982	11.35	-0-	7.78
1983	11.35	-0-	7.78
1984	11.35	-0-	7.78
1985	12.05	0.45	8.03

(a) Reference price of \$11.28/Bbl on West Coast.

GAS SALES

Price = \$0.71/MMBtu

Initiation Date = 1983 (Technical Considerations, Prudhoe Bay Operating Plan,
October, 1976)

Gas Sales Rate - 2.0 Bcf/D (Reserves Tax Study)

Reserves - 25.4 Tcf (De Golyer and Mac Naughton)

Since Reserves Tax Study only goes to 2006, will produce $2.0 \times 365 \times 10^{-3} \times 24\text{Yrs} =$
17.5 Tcf of 1200 Btu hydrocarbon gas.

GAS VALUE

Value at Pipe Line Inlet = \$1.46/MMBtu. Radford Schantz, Foster Associates
Advance testimony filed w/Can. NEB 2/77.

Cost of service expense for gas conditioning based on producer evidence
presented to FPC = \$0.75/MMBtu.

Wellhead price = $\$1.46 - 0.75 = \$0.71/\text{MMBtu}$ (Sep. Outlet) or 0.852/Mcf at 1200Btu/cu. ft.

Note: Pritchard & Abbot include gas sales expenses but no revenue as the
gas is not subject to the reserves tax.

AGO 531209

PUBLIC DATA CASE
FIELD EXPENSES; PRODUCTION TAX ON OIL

MM\$

Year	Reserves Tax Study Escalated Op. Expenses	Escalation Factor	Constant 1976 Dollar Expenses	Gross Prod'n MM Bbl	No. Producing Wells	B/D/ Well	Gross Oil Prod'n Tax %	Well- head Price \$/B	MM\$ Gross Prod'n Tax Value	Net Prod'n Tax Value	Net Prod'n Tax %	Alternate Price Case			
												MM\$			
												Well- head Price \$/B	Gross Prod'n Tax Value	Net Prod'n Tax Value	Net Prod'n Tax %
1976	44	1.000	44												
77	138	1.070	129	146	166	5000	7.5	6.45	61.8	30.9	3.75	8.17	78.4	39.2	3.75
78	152	1.145	133	438	209	5742	7.5	6.67	191.8	95.9	3.75	8.39	241.2	120.6	3.75
79	178	1.225	145	438	252	4762	7.5	7.28	209.2	104.6	3.75	9.00	258.6	129.3	3.75
1980	195	1.311	149	573	295	5321	7.5	7.28	273.8	136.8	3.75	9.00	338.4	169.2	3.75
81	337	1.403	240	573	313	5015	7.5	7.78	292.5	184.7	4.74	9.50	357.2	339.5	7.13
82	378	1.501	252	573	356	4409	7.5								
83	398	1.606	248	573	399	3934									
84	448	1.718	261	573	441	3560									
85	585	1.838	318	573	481	3264	7.3								
86	590	1.838	321	548	520										
87	586	1.838	319	521	530										
88	594	1.838	323	460	505										
89	575	1.838	313	394	455										
1990	566	1.838	308	336	414	2223	7.0								
91	546	1.838	297	262	376										
92	526	1.838	286	204	316										
93	515	1.838	280	159	265										
94	498	1.838	271	124	212										
95	496	1.838	270	97	170	1560	6.5								
96	432	1.838	235	91	163										
97	438	1.838	233	82	153										
98	430	1.838	234	74	144										
99	427	1.838	232	66	134										
2000	427	1.838	232	60	127	1294	6.3								
01	210	1.838	114	54	119										
02	204	1.838	111	48	110										
03	199	1.838	108	43	103										
04	195	1.838	106	39	97	1100									
05	191	1.838	104	35	95	1000									
06	44	1.838	24												

Reserves Tax Total = \$476MM

PUBLIC DATA CASE
HISTORICAL FIELD CAPITAL EXPENDITURES
MM\$

Year	BP/ SOHIO(d)	ARCO(e)	Exxon(f)	Others Est. (a)	Total	IDC & Dry Holes(c)	Tangible
1969	40	nil	nil	45	85	48	37
1970	60	nil	nil	60	120	64	56
1971	60	13	13	28	114	38	76
1972	26	5	5	-	36	5	31
1973	61	4	4	-	69	10	59
1974	134	65	65	-	264	37	227
1975	411	265	265	-	941	132	809
1976					1375 (b)	192	1183
				133	3004	526	2478

- (a) World Oil, 12/69, shows 9 completed wells, 9 rigs running, and 2 rigs waiting on freeze-up in addition to ARCO and BP activity. Assume 2 wells per rig as follows with 75% dry holes:

Year	No. Wells	M\$ Cost Per Well	M\$ Total Cost	M\$ Tangible	M\$ Dry Holes & IDC
1969	9	5	45	3	42
1970	15	4	60	4	56
1971	7	4	28	2	26

- (b) Reserves Tax Study

- (c) Reserves Tax Study shows 116 producing and 10 injection wells drilled thru 1976. Assume 8 additional (5%) dry holes by Sohio/BP and ARCO. Intangibles and dry holes are then:

$$\begin{aligned}
 \$3\text{M}/\text{Well} \times 70\% \times 176 \text{ successful wells} &= \$370\text{M} \\
 \$3\text{M}/\text{Well} \times 100\% \times 8 \text{ dry holes} &= 24\text{M} \\
 &= \underline{\$394\text{M}}
 \end{aligned}$$

or 14% of the \$2,871M spent thru 1976 by Exxon, ARCO and BP/Sohio.

(continued on next page)

- (d) Sohio/BP Trans Alaska Pipeline Finance, Inc. Prospectus, December 4, 1974.
The Standard Oil Company (Ohio) Prospectus, December 2, 1976.
- (e) City of Valdez, Alaska, % Marine Revenue Bonds (ARCO Pipe Line Company Project) Preliminary Official Statement, January 27, 1977.
- (f) Assumed identical to ARCO.

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PUBLIC DATA CASE
HISTORICAL AND PROJECTED FIELD CAPEX AND AD VAL TAX
1976 CONSTANT DOLLARS
MM\$

Year	No. Producing Wells	No. Inject. Wells	No. Wells Drilled	Intang. Drilling Costs (a)	Total Capex With Inflation (b)	Inflation Factor	Total Capex 1976 Dollars (c)	Intang. & Dry Holes	Tangible Investment	Cumulative Tang. Investment	Depreciation (d)	Accum. Depr.	Ad Val Tax (e)
1969					85		85	48	37				
1970					120		120	64	56				
71					114		114	38	76				
72					36		36	5	31				
73					69		69	10	59				
74					264		264	37	227	486			10
75					941		941	132	809	1295			26
76	138	10(gas)			1375	1.000	1375	192	1183	2478			273
77	166		43	90	644	1.070	602	90	512	2990			313
78	209		43	90	535	1.145	467	90	377	3367	160	160	64
79	252		43	90	534	1.225	436	90	346	3713	182	342	67
1980	295		43	90	722	1.311	551	90	461	4174	266	608	71
81	313	25(wtr)	43	90	1067	1.403	760	90	670	4844	306	914	79
82	356		43	90	1076	1.501	717	90	627	5471	370	1284	84
83	399		42	88	1151	1.606	717	88	629	6100	436	1720	88
84	441		40	82	995	1.718	579	82	497	6597	510	2230	87
85	481		39	82	781	1.838	425	82	343	6940	577	2807	83
86	520		10	21	276	1.838	150	21	129	7069	602	3409	73
87	530		0		276	1.838	150		150	7219	595	4004	64
88					276	1.838	150		150	7369	552	4556	56
89					276	1.838	150		150	7519	450	5006	50
1990					276	1.838	150		150	7669	335	5341	47
91					200	1.838	109		109	7778	300	5641	43
92					150	1.838	82		82	7860	200	5841	40
93					100	1.838	54		54	7914	200	6041	37
94					50	1.838	27		27	7941	200	6241	34
95											200	6441	30
96+											150/yr		
							9280	1339	7941				

- (a) 70% of \$3.0MM well cost.
- (b) 1976 forward from Reserves Tax Study, 2/76.
- (c) Historical not inflated.
- (d) Unit of production.
- (e) Includes reserves tax of \$223MM in 1976 and \$253M in 1977.

CHASE GROUP OF PETROLEUM COMPANIES (29 in 1975)

	1970	1971	1972	1973	1974	1975	Trendline Growth %/Yr. <u>None</u>
Crude Oil Supplies, MB/D	<u>28,862</u>	<u>31,647</u>	<u>33,320</u>	<u>35,223</u>	<u>34,066</u>	<u>28,835</u>	
Net Income Before Inc. Tax	12,012	15,943	17,417	26,980	49,507	39,640	28
Property, Plant & Equip: Net	64,550	71,740	75,097	79,613	91,169	99,027	9
Reserves	<u>53,061</u>	<u>58,562</u>	<u>60,530</u>	<u>64,060</u>	<u>69,219</u>	<u>68,716</u>	
Total	<u>117,611</u>	<u>130,302</u>	<u>135,627</u>	<u>143,673</u>	<u>160,388</u>	<u>167,743</u>	7

Assumptions for future predictions:

1. Field employees factor is Prudhoe production over worldwide oil supplies times 5. (a)
2. Future growth after accounting for inflation.
 - a. Crude oil: 2%/yr.
 - b. Net income before taxes: 5%/yr.
 - c. Gross P, P & E: 4.0%/yr. thru 1980; 5%/yr. 1980-85; 6%/yr. 1986+.

(a) Recognizes that oil is handled four times (production, transportation, refining, and distribution) and that refining and distribution/marketing are employee intensive steps.

PUBLIC DATA CASE
FIELD BOOK DEPRECIATION
MM\$

Investment Year	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>Total</u>
Investment	2,990	377	346	461	670	627	629	497	343	129	150	
Beginning Reserve (a)	8,157	7,573	7,135	6,562	5,989	5,416	4,843	4,270	3,697	3,149	2,626	
Depreciation:												
1978	160	-	-	-	-	-	-	-	-	-	-	160
1979	160	22	-	-	-	-	-	-	-	-	-	182
1980	210	28	28	-	-	-	-	-	-	-	-	266
1981	210	28	28	40	-	-	-	-	-	-	-	306
1982	210	28	28	40	64	-	-	-	-	-	-	370
1983	210	28	28	40	64	66	-	-	-	-	-	436
1984	210	28	28	40	64	66	74	-	-	-	-	510
1985	210	28	28	40	64	66	74	67	-	-	-	577
1986	201	27	26	38	61	63	71	64	51	-	-	602
1987	191	26	25	37	58	60	68	61	48	21	-	595
1988	169	23	22	32	51	53	60	54	43	19	26	552
1989 (b)												450
1990												335
1991												300
1992												200
1993												200
1994												200
1995												200
1996-2006												150/yr.

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a) MM Bb1

b) Simplicity assumptions used past 1989.

PUBLIC DATA CASE
STATE INCOME TAX

Year	Property Factor (a)			Employees Factor			Average 3 Point Factor (b)	Bil. \$ World-wide Net Income Before Income Taxes	AK Income Tax (c)
	Gross PPE, Bil. \$		Gross PPE Factor	Crude Oil, MMB/D					
	World Wide	P B Field		World Wide	P B Field	P B Factor			
1976	174.4	- (d)	-	29.4	-	-	-	41.6	- (d)
1977	181.4	3.65	0.0201	30.0	0.4	0.0027	.0076	43.6	31.1
1978	188.6	4.18	0.0222	30.6	1.2	0.0078	.0100	45.8	43.0
1979	196.2	4.72	0.0240	31.2	1.2	0.0077	.0106	48.1	47.9
1980	204.0	5.44	0.0267	31.8	1.57	0.0099	.0122	50.5	57.9
1981	212.2	6.51	0.0307	32.4	1.57	0.0097	.0135	53.1	67.4
1982	220.7	7.58	0.0343	33.1	1.57	0.0095	.0146	55.7	76.4
1983	230.0	8.73	0.0380	33.7	1.57	0.0093	.0158	58.5	86.9
1984	238.7	9.73	0.0408	34.4	1.57	0.0091	.0166	61.4	95.8
1985	248.2	10.51	0.0423	35.1	1.57	0.0089	.0171	64.5	103.7
1986	258.2	10.78	0.0418	35.8	1.50	0.0084	.0167	67.7	106.3
1987	271.1	11.06	0.0408	36.5	1.43	0.0078	.0162	71.1	108.3
1988	284.7	11.34	0.0398	37.2	1.26	0.0068	.0155	74.7	108.8
1989	298.9	11.61	0.0388	38.0	1.08	0.0057	.0148	78.4	109.0
1990	313.8	11.89	0.0379	38.8	0.92	0.0047	.0142	82.3	109.8

- (a) Under UDITPA rules, property factor is based on original cost.
- (b) Sales factor assumed to be zero.
- (c) 9.4% rate.
- (d) Property factor does not include incomplete construction.

Note: After 1990 assume level taxation 1991-95, then decline 3%/yr. as world-wide investment grows.

PUBLIC DATA CASE
TANKERS

Source: The Determination of Equitable Pricing Levels for North Slope Alaskan Crude Oil, November, 1976;
Prepared for Office of Regulatory Programs, Federal Energy Administration under Contract No.
CR-06-60824-00 (Mortada Study)

1. Required tanker capacity: 4.5 MMDWT assuming West Coast disposition for 2.0 MMB/D.
2. Average vessel size: 115 MDWT.
3. Average cost: \$450/DWT plus \$40/DWT interest during construction.
4. Roundtrip Valdez - Long Beach = 14.5 days including turn around at both ends of 1.5 days each.
5. Dry docking every two years = 30 days.
6. Weather and repair = 20 days/year.
7. Barrels hauled per year:

115 MDWT X 6.4 Bbl/Ton = 736 MBbls/trip
 Average operating time = 365 - 15-20 = 330 days/year
 Trips/year = 330 ÷ 14.5 = 22.8
 MMBbls/Year = 22.8 X 736 X 10⁻³ = 16.78 (46 MB/D Avg.)

8. Investment Costs:

Year	Investment for MB/D	No. Vessels Req.	MM DWT	MM\$ Investment
1976	828	18	2.07	932
1977	372	8	0.92	414
1978				
1979	370	8	0.92	414
				<u>1760</u>

9. Assumed DCF Return: 10%

STATE OF ALASKA

JAY S. HAMMOND, Governor

DEPARTMENT OF REVENUE

PETROLEUM REVENUE DIVISION

597 W. THIRD AVENUE -- ANCHORAGE 79501

February 9, 1976

Mr. R. H. Underwood
Manager, Alaska Taxes
Atlantic Richfield Company
P.O. Box 360
Anchorage, Alaska 99510

Proposed Assessment for Reserves Tax (AS 43.58) on
Proven Reserves of Oil in the Prudhoe (Sadlerochit)
Oil Pool, North Slope Borough, Alaska

Dear Mr. Underwood:

An appraisal of the market value as of January 1, 1976 of the oil reserves of the Prudhoe (Sadlerochit) Oil Pool has been made for this Division by Pritchard & Abbott, Valuation Engineers of Fort Worth, Texas. This appraisal does not extend to the gas reserves of this reservoir because, in the absence of an initial transmission facility, the gas reserves are exempt from the reserves tax. Enclosed is a copy of the appraisal, which includes a statement of underlying assumptions and a calculation sheet showing how the appraised market value was derived.

Before developing their present projections of capital and operating costs and of the methods by which the pool will be developed, produced and eventually depleted, Pritchard & Abbott engineers have met on several occasions with the proposed unit operators and their partners. During these discussions Pritchard & Abbott indicated their thinking as to their projections, and on some points comments or criticism was offered by the operators. While we found this very useful, I should point out that the projections in the appraisal remain the work of Pritchard & Abbott, and not the operators or their partners.

Pritchard & Abbott have also received well logs and other physical data. The confidentiality of proprietary or statutorily confidential information has been, and will continue to be, strictly maintained. Based on this information, Pritchard & Abbott are preparing a "break out" of the market value by property. While the results of this task are not ready for distribution at this time, I have been informed that properties within the proposed unit that were rendered by Atlantic Richfield Company on behalf of itself and others do not represent more than 39.96 percent of the market value for the entire Prudhoe (Sadlerochit) Oil Pool, or not more than \$4,711,000,000. This value includes the value as of January 1, 1976 of any production equipment needed for unit operations that was on those properties on that date. To avoid taxing this production

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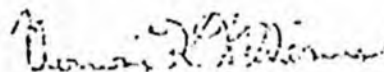
equipment twice, its assessed value for AS 43.56 would be subtracted from the market value of these properties in determining the value of the oil reserves for purposes of the reserves tax.

The reserves tax is unique not only for its temporary nature and its complex system of credits back and forth with the production tax, but also because of its unprecedented magnitude when applied to Prudhoe Bay. Because of this, and to administer the tax fairly and equitably, we are soliciting the review and comments of you, and all other operators and interest-owners in the Prudhoe (Sadlerochit) Oil Pool who wish to make them, before we reach any final decision as to the assessment of the Prudhoe properties. Mr. Gerald D. Heier, State Petroleum Property Assessor, and I will be available at the Division office in Anchorage through February 27, 1976 for discussions about the tax. For the convenience of companies headquartered outside Alaska, Mr. Heier and I will conduct a meeting on Wednesday, March 3, 1976 at the offices of Pritchard & Abbott, 200 Seminary South Building, Fort Worth, Texas, beginning at 9:00 o'clock in the morning (local time). We invite you and any other representatives of Atlantic Richfield Company, or any of the interests on whose behalf you rendered Prudhoe properties, to attend this meeting to discuss the reserves tax. We will remain available in Fort Worth for discussions with smaller groups or individuals through Friday afternoon, March 5, 1976. Written comments received at the Division office in Anchorage by the close of business on March 5, 1976 will also be given full consideration. After that time the record will be closed for our purposes, and we will prepare assessment notices for the reserves tax on the basis of our decisions made in light of this record.

Naturally the provisions for appeals in AS 43.58 and the regulations will remain available to any taxpayer challenging the assessment in his assessment notice.

Please call or write if you have any questions.

Yours very truly,



Thomas K. Williams
Director
Petroleum Revenue Division
Department of Revenue
State of Alaska

Enclosure

TKW:dh

cc: Mr. Gerald D. Heier, Anchorage

Pritchard & Abbott, Fort Worth, Texas

✓ Exxon Company, U.S.A.

Page 7 of 7

Please hand deliver to Rose Connor Bush

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February 6, 1976

Mr. Thomas K. Williams, Director
Petroleum Revenue Division
Department of Revenue
State of Alaska
509 West Third Avenue
Anchorage, Alaska 99501

Dear Sir:

The Prudhoe Bay, Sadlerochit Pool has been appraised to determine the market value of remaining oil reserves under unitized conditions. It is my opinion that the market value as of January 1, 1976 is:

\$ 11,790,000,000

Eleven Billion Seven Hundred Ninety Million Dollars

In addition to the present worth calculations, I am including a summary of the basic projections used to develop and deplete the oil reserves.

Yours truly,

Malcolm Jarrell
Malcolm Jarrell, P.E.
Pritchard & Abbott Valuation
Engineers

MJ:jr

Enclosures

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PRUDHOE BAY SADLEROCHIT POOL
PROJECTIONS as of 1-1-76

Development & Depletion

Well Development

The total number of producing wells drilled is based generally on 160 acre spacing per oil well, in the area where the oil column is 200 feet or more. In areas of thinner oil column, the density may vary to 320 acres per well. The magnitude and time frame for well development is,

- A. Four (4) rigs continuously working for 12 years,
- B. Each rig completes up to ten (10) wells per year,
- C. Ten (10) gas injection wells drilled by 1977,
- D. Twenty-five (25) water injection wells drilled by 1981,
- E. Five hundred thirty (530) producing wells drilled by 1988.

Oil Production

- A. Production begins by mid-1977 at an average rate of .8 MMb/D.
- B. Production increases to an average rate of 1.2 MMb/D in 1979 & 1979.
- C. Production increases to an average rate of 1.57 MMb/D (98% of 1.6 MMb/D) in 1980 & remains constant through 1985.
- D. Production decline starts in 1986 and continues through 2005.

Water Production

- A. Becomes significant by 1983 and increases to approximately 75% of total fluid production by 1996.
- B. Water production in excess of 75% total fluid per well is one basis of plugging wells.

Gas Production

- A. Gas/oil production ratio is 730 SCF/8bbl.
- B. Shrinkage & fuel consideration is 8% of gross with remaining gas injected through 1980.
- C. *Gas sales start in 1981 at a rate of 730 BCF/yr.

Water Injection

- A. Source water injection starts in 1981 at a rate of 2250 MB/D and continues through 2000.
 - 1. Source water requirements based on injection rate of 2250 MB/D minus (-) produced water.
- B. Produced water is injected through 2005.

Page 2 of 7

Development & Depletion (cont'd)

Gas Injection

- A. Produced gas injected through 1980.
- B. *Produced gas sold or used after 1980.

Workovers

- A. Begin in 1978 and increase to approximately 20% of the producing wells per year.
- B. Plugging operation begins in 1988 and continue through 2006.

*Gas and/or condensate sales is not considered as economic factor in market value calculations.

Expenditures

Capital

- A. Capital expenditures for the completion, addition and expansion of production facilities is projected to be approximately 85% of the total through 1985.
- B. The average cost to drill & complete a well is \$3 MM.

Operating

- A. Basic facility operations \$ 85 MM/yr.
- B. Basic artificial lift facility operation \$ 45 MM/yr.
- C. Well operation \$ 75 M/yr./well
- D. Well workover \$ 400 M/well
- E. Plug & Abandon wells (Net after salvage) \$ 250 M/well
- F. Gas handling & injection 9¢/SMCF
- G. Water handling and injection (1) source 14¢/bbl
(2) produced 11¢/bbl
- H. Special allowance in 1976 & 1977 for 'start-up' training of personnel, etc.

*All Capital and Operating expenses is inflated at 7% per year through 1985.

Severance Tax (Production Tax)

- A. Based on State of Alaska % formula
i.e., up to 300 B/D/W = 3% of gross wellhead income
next 700 B/D/W = 6% " " " "
next 1000 B/D/W = 8% " " " "

Ad Valorem Tax

- A. Estimated tax from A.S. 43.58 (Reserve) + A.S. 43.56 (Property) for 1976 & 1977.
- B. Estimated tax from A.S. 43.56 (Property) after 1977.

YEAR	PRICE @ W.H. \$/bbl	NO. OF HELLS PRODUCING	PRODUCTION 8/8 GROSS MM Bbls	INCOME 7/8 GROS MM \$
1976		138		
77	7.58	166	146	968
78	8.52	209	438	3265
79	10.00	252	438	3832
80	10.42	295	573	5224
81	11.35	313	573	5691
82	11.35	356	573	5691
83	11.35	399	573	5691
84	11.35	441	573	5691
1985	12.05	481	573	6042
86		520	548	5778
87		530	521	5493
88		505	460	4850
89		455	394	4154
1990		414	336	3543
91		376	262	2762
92		316	204	2151
93		265	159	1676
94		212	124	1307
1995		170	97	1023
96		163	91	959
97		153	82	865
98		144	74	780
99		134	66	696
2000		127	60	633
01		119	54	569
02		110	48	506
03		103	43	453
04		97	39	411
2005		95	35	369
06				
TOTALS			8,157	81,073

No price increase after 1985

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RUDHOE BAY - SADLEROCHIT POOL
 PRESENT WORTH CALCULATIONS
 (as of 1-1-76)

CAPITAL MM \$	OPERATING MM \$	EXPENDITURES			TOTAL MM \$	INCOME 7/8 NET MM \$	P.W. @ 18% MM \$
		SEV. TAX MM \$	A.V. TAX MM \$				
1375	44	1	235	1655	(-1655)	(-1524)	
644	138	(73) 37	302-97	1121	(-153)	(-119)	
535	152	(248) 124	41	852	2413 .847	1595 .78	
534	178	(288) 144	47	903	2929 .718	1641 .69	
722	195	(395) 210	54	1181	4043 .609	1920 .54	
1057	337	429	63	1896	3795 .516	1527 .37	
1076	378	426	78	1958	3733 .437	1273 .27	
1151	398	422	93	2064	3627 .37	1048 .14	
995	448	418	109	1970	3721 .310	911 .263	
781	585	441	119	1926	4116 .266	854 .225	
276	590	416	126	1403	4370 .225	769 .191	
276	585	393	131	1385	4107 .191	612 .132	
276	594	343	135	1348	3502 .162	442 .37	
276	575	292	139	1282	2872 .137	307 .14	
276	566	247	142	1231	2312 .116	210 .099	
200	546	188	144	1078	1684 .099	129 .084	
150	526	144	143	963	1188 .054	77 .071	
100	515	111	142	868	808 .071	45 .06	
50	493	86	141	775	532 .06	25 .051	
-0-	496	67	137	700	323 .051	13 .043	
	432	62	133	627	332 .043	11 .037	
	428	56	126	610	255 .037	7 .031	
	430	50	118	598	182 .031	4 .026	
	427	44	108	579	117 .026	2 .022	
	427	39	96	562	71 .022	1 .018	
	210	35	83	328	241 .019	4 .016	
	204	31	69	304	202 .016	3 .014	
	199	27	55	281	172 .014	2 .011	
	195	24	39	258	153 .011	1 .01	
	191	21	23	235	134 .01	1 .008	
	44		3	47	(-47) .008	(-1) .007	
10,760	11,532	5,328	3,374	30,994	50,079	11,790	

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15,100
 6,100
 9,000

11,790
 50,160
 67,740
 13,4

11,776
 5,020
 235