# Enclosure 4: Core analysis data, Point Lay Alaskan outcrops, in Sherwood, K.W., and Amoco Oil Co., 1977 geologic field investigations, Point Lay area, North Slope, Alaska

Sherwood, K.W., and Amoco Oil Co.

**GMC DATA REPORT 445B** 

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2019
State of Alaska
Department of Natural Resources
Division of Geological & Geophysical Surveys
GEOLOGIC MATERIALS CENTER





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## CF 800101



AMOCO PRODUCTION COMPANY Research Department

#### CORE ANALYSIS SUMMARY

Subject Point Lay Alaskan Outcrops	Lab No. F-281
Field	Date Cored
LocationNorth Slope, Alaska	Date Analyzed
Formation AnalyzedFortress Mtn., Kukpowruk, Corwin	Elev.
Transmittal Letter by R. C. Brooke	Date 5-5-78 File No.
The state of the s	
CORING DATA	
Type of Analysis Core Plug Analysis Type A	
Number of Samples 144	
Remarks:	

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RV	L ]	1 . 100	00/00/	CONC
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cc: R. C. Brooke

J. L. Severson W. W. Owens

W. E. Jenkins

Lab No. F-281 Date 8-1-78

#### Core Analysis Data Record

Subject Point Lay Alaskan Outcrop Field

Sample	Not Depth 2384		Permeabi				Ion - % PV	
Number 🖔	g ft g	Description	Horiz.	Vert.	%	011	Water	gm/cc
1 Kfm	W-12, 80°	TC 12	1.00		4.5	Antides our designation of the		2.67
4 Kfm	W-11, 137'	TM 3	.0095		10.5	navaga ma samba sa		2.66
5 Kfm	W-11, Z42'	TM 5	.0029	·	5.8	The state of the s	77	2.66
6 Kfu	W-11, 251'	TM 6	.179		6.3			2.65
7 Kfm	W11, 265'	TM 7	.0076		6.0			2.67
8 Kfm	W-11, 298'	TM 8	.036	- No. of the latest the second	11.2			2.66
9 Kfm	W-11, 314'	TM 9	.099		10.6			2.65
10 Kfm	W-11, 324'	TM 11	.88		10.2		8 7 8	2.66
11 Kfm	W-11, 7500	TM 28	.00140	and the second s	3.8			2.69
12 Kfn	W-11, >500'?	TM 1	.0049		5.9			2.67
13 Kuk	w-13, 74'	KKS 20	.0038		3.1			2.67
14 "	W-13, 110'	KKS 17	.0039		3.8			2.69
15 ι.	w-13, 129'	KKS 22	.0097		4.9			2.68
16 "	W-13, 135'	KKS 23	.0105		6.7			2.68
17 "	W-13, 162'	KKS 24	.0029		4.7			2.73
18 "	W-13, 166'	KKS 25	.0161		5.0			2.69
19 "	w-14, 39'	TS 34	.00086	1 8 2	2.4			2.73
20 "	W-14, 109'	TS 35	.0085		3.7			2.73
21 "	W-14, 164'	TS 37	.097		10.5			2.70
22 11	W-14, 250'	TS 38	.042	and the state of t	9.4	Sharehous Buddhard Salahana		2.74
23 u	W-14, 435'	TS 40	.0086		6.5			2.72
24 tı	W-15, 75"	KA 41	.0099		5.7			2.70
25 τι	w-15, 272'	KA 44	.0143		6.8			2.68
26 u	W-15, 295'	KA 45	.107		7.9			2.67
27 u	W-15, 476'	`KA 47	.090		9.5			2.67
28 🔥	W-15, 628'	KA 50	1.24		11.2	176.6		2.66

Lab No. <u>F-281</u>
Date\_\_8-1-78

#### Core Analysis Data Record

Subject Point Lay Alaskan Outcrops Field

5			8 a " " a				
Sample 🥇	Section Depth Depth ft Section		Permeability-md	Porosity	Saturati	on - % PV	Grain Density
Number 🤾	g ft g	Description	Horiz. Vert.	%	011	Water	gm/cc
29 Knk	W-15, 643'	KA 51	.89	12.1			2.70
30 "	W-15, 652'	KA 52	3.49	11.9		- Dan-Mary rate requirements many materials	2.67
31 ''	w-15, 735'	KA 55	.0037	5.6			2.69
32 "	W-15, 1040'	KA 56	.023	9.0			2.66
33 "	W-15, 1969'	KA 59	.093	6.9			2.64
34 "	W-15, 1988	KA 61	.020	6.9			2.67
35 "	W-15, 1992'	KA 62	.041	9.1		100	2.67
36 "	W-15, 1999'	KA 63	.196	7.3			2.66
37 "	W-15, 2013'	KA 64	1.16	11.2			2.68
38 11	W-15, 2047'	KA 65	.142	9.3			2.67
39 11	W-15, 2110'	KA 66	.0197	2.8			2.75
40 11	W-15, 2168'	KA 69	.0095	4.4			2.67
41 "	W-15, 2281'	KA 71	.040	7.6			2.67
42 "	W-15, 2303'	KA 72	2.69	3.9.	* ,	Automotive Control of Control of Control	2.70
43 "	W-15, 2309'	KA 73	.088	4.2			2.70
44 "	W-15, 2420'	KA76	.87	2.6			2.75
45 N	W-15, 2433'	KA 77	.0069	3.2			2.69
46 Knc	W-15, 2547'	KA 79	.049	8.2			2.68
48	W-15, 2597	KA 81	.109	10.7			2.67
49 "	W-15, 2611	KA 82	.047	7.6			2.69
50 Knc	W-16, 715'	SA 87	.41	9.7			2.67
	W-16, 848'	SA 89	.43	11.4		Sant make the Panel of Panel or State of the	2.66
	W-16, 877'	SA 90	1.44	12.2		annua samunda di Carribore	2.66
53 II	W-16, 1031'	SA 92	1.51	11.4			2.66
54 "	W-16, 1053'	SA 94	.28	10.4			2.69
	SCHOOL SECONDS			310.10		we. 100	

Lab No. F-281
Date 8-1-78

#### Core Analysis Data Record

Subject Point Lay Alaskan Outcrop Field

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Sample \$	Not Depth 12		Permeabi	ilitv-md	Porosity	Saturati	on - % PV	Grain Density
Number (	ft &	Description	Horiz.	Vert.	%	011	Water	gm/cc
55 Kn	kW-16, 1340'	SA 97	.0184		5.9			2.72
56 "	W-16, 1646	SA 99	•29		7.0			2.67
57 "	W-16, 1682'	SA 100	.84	and the last of th	12.2	The second secon		2.68
58 ''	W-16, 2144'	SA 103	.43	nsk makks visamunikken sagan jamakken 1944 and	10.5			2.69
59 "	W-16, 2175'	SA 104	.143		15.7			2.70
60 "	W-16, 2341'	SA 105	• 30		9.9	2 2		2.69
61 "	W-16, 2368'	SA 106	1.34	~	6.6			.2.69
62 11	W-16, 3196	SA 113	.86		10.2	,		2.71
63 Km	W-16, 3915	SA 235	.080	A184 h. a.s Maria Mala II de Stram a - 18 a -	6.9		· .	2.69
64 "	W-16, 4496'	SA 240	.0181		7.3			2.69
65 "	W-16, 4573	SA 241	.43		1.5	Sala and provide a region of the filter than a sile or other than		2.74
66 11	W-16, 4730	SA 242	.00127		1.2			2.75
67 <sub>II</sub>	W-16, 5279	SA 244	.0059		1.5			2.75
68 Kn	W-16,5581	SA 245	.0101		1.6			2.75
69 Kn	kW-17A, 5'	TSE 114	•55		3.8	Same about a control of the control		2.66
70 N	W-17B, 30'	TSE 116	.030	a yay	5.6			2.71
71 n	W-17B, 96'	TSE 117	Unsuitable	3	2.8			2.73
72 a	W-17C, TOROK	TSE 119	.061	and the state of t	5.2	The state of the s		2.74
73 u	W-17c, 201'	TSE 122	.0106	1, , , ,	3.9			2.67
74 ,	W-17c, 1285'	TSE 124	.0125		6.8	and the second s		2.72
75 ,,	W-17c, 1817	TSE 125	.031		4.5			2.70
76 Knc	W-17c, 2672	TSE 127	.123		7.6			2.67
77 "	W-17c, 2707	TSE 128	.0134		6.0			2.71
78	W-17c, 2675'	TSE 247	.089		7.0			2.69
79 II	W-17c, 2675	TSE 248	.0045		2.9			2.70
				14	(30,26			

Lab No. F-281 Date 8-1-78

#### Core Analysis Data Record

Subject Point Lay Alaskan Outcrop Field

\_\_ State\_ Alaska

Sample	Secrosy Depth tt		Permeabi	litv-md	Porosity	Saturati	on - % PV	Grain
Number	ft g	Description	Horiz.	Vert.	%	Oil	Water	gm/cc
80 Knk	W-18, 322'	FS 130	,0020		3.5			2.73
81 "	W-18, 458	FS 132	,0042		2,9			2.69
82 "	W-18, 942'	FS 133	.021	·	5.4	ALTERNATION ACTOR STATE		2,70
83 "	W-18, 983'	FS 134	.079	and the second control of the second control	7.2		e'	2.67
84 "	W-18, 1404'	FS 135	.089	St. or nation gain as an e-decidate of special action	7,2			2.67
85 "	W-18, 1478'	FS 136	.107	Marion was a superior and a state of the delignation of	7.5			2,66
86 "	W-19, 193'	DS 138	.021		8.8			2.69
87 "	W-19, 652'	DS 139	.0075	to the same the figure to the content of the same	2.5			2.67
88 "	W-19, 8607	DS 140	1.75	nage and the company of the party of the Co.	3.6			2,66
89 "	w-20, 679'	PS 141	.029		7.4			2.66
90 "	W-20, 105Z'	PS 142	.72		10.4	No. of Burnings of the Contract of the Contrac		2.65
91	W-20, 2570'	PS 143	.23	the state of the s	7.6		8 - 2	2.63
92 Knc	w-20, 6862'	PS 144	.0072		4.9			2.71
93 Knk	W-21, 851	MM 146	1.10	-	8.5.			2.71
94 "	W-21, 1200'	MM 147	.054		7.0			2.69
95 "	W-21, 1748	MM 148	.0184		5.4			2.70
96 "	W-21, 2259'	MM 149	.035		6.7			2.72
97 "	W-21, 2276'	MM150	Unsuitable	en 40 addies in a require and the titles his	8.6	The first six the same of the	. ~	2.72
98 ı	W-22, 6'	FP 152	.0120	O to appear mount special appear and an install indication, and	6.7			2.70
99 0	w-22, 96'	FP 153	1.50		8.1			2.71
100 ι	W-22, 212'	FP 157	.021		6.8			2.68
101 0	W-22, 250'	FP 158	.060	and the second s	8.8		-the mark to the state of the s	2.68
102 "	W-22, 560'	FP 160	1.11	t of the section of the right and the section of the	9.7	The second second second second second		2.68
103 "	W-22, 1084'	FP 161	Jnsuitable		7.5		Charles on Physical Review (Charles on Physical	2.69
104 "	N-22, 1373'	FP 164	.0025		1.1			2.73
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#### Core Analysis Data Record

Subject Point Lay Alaskan Outcrop Field

Sample W	So Depth &		Permeab	ility-md	Porosity	Saturatio	n – % PV	Grain Density
Number 🐉	ft &	Description	Horiz.	Vert.	%	011	Water	gm/cc
105 Knk	W-22, 1379'	FP 165	.0017		2.5			2.72
106 "	W-22, 1398'	FP 166	.00051		1.7			2.74
107 "	W-23, 10	FOG 168	.00068	41	1.2	4		2.74
108 "	W-23, 32	FOG 169	.37	CALL TO BAS DOORN A SECOND COLUMN A SECOND	12.4			2.71
109 "	w-23, 36'	FOG 170	.039		2.4			2.73
110 "	W-23,467	FOG 171	.023		7.8		Commence of the commence of th	2.68
111 "	W-24, 321'	SAE 173	.86		11.7			2.68
112 "	W-24, 1219'	SAE 174	.32	nak as Mikeradi sa ayan sasar kara kabasak biri	9.8			. 2.66
	W-24, 1721'	SAE 175	.023		7.3			2.70
	W-24, 1729		.161		4.6			2.75
	W-24, 1989'	-	1.59	· Out with him a mining of the management of the	3.5			2.75
116 v	W-24, 2482'	SAE 180	•35		12.2			2.69
	W-24, 2510+	· · · · · · · · · · · · · · · · · · ·	.021		6.1			2.77
	W-25, 283'	1	.0043	a kalan majah kih kadik para kupu mahai mengai ma kansa	10.9			2.68
119 "	W-26, 28'	CB 223	.57		15.9	8	Nacional and Art State States (National States of the Stat	2.68
120 .	W-26, 2450'	CB 224	1.46		6.3		, , ,	2.64
	W-26, 4509'		.32		5.8			2.65
122 "	W-Z6,4670'	CB 194	.020	x	4.5			2.65
123 "	W-26, 4808'	CB 195	.00121		1.3	4		2.72
124	W-26, 4950'	CB 200	.083		1.7			2.66
125	W-26, 5098'	CB 201	.064		7.1			2.66
126	W-26, 5647'	СВ 187	.058		1.5			2.72
127 0	W-26, 6266'	СВ 189	•45	n akti ini sija na jaju merejenang tudakan dan pemulah perena ini penua	7.0		n or december 1991 of the angles to Colombia can be primare	2.65
128 "	W-26, 6725'	CB 190	.22		5.9			2.66
129 11	w-26,6733'	CB 191	.25		6.3	al .		2.63
					401.4			The control of the co

Lab No. F-281 Date 8-1-78

#### Core Analysis Data Record

Subject Point Lay Alaskan Outcrop Field

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Sample &	Ro Depth Rose			ility-md	Porosity		on - % PV	
Number (	ft g	Description	Horiz.	Vert.	%	011	Water	gm/cc
130 Knh	W-26, 6742'	CB 202	Unsuitable		6.4			2.65
131 "	W-26, 6746	CB 192	Unsuitable		3.8			2.73
133 Knc	W-26, 8348'	СВ 204	.00124		1.5	THE COURSE OF THE OWNER OF THE OWNER OF THE OWNER		2.71
134 "	W-26, 8361'	CB 205	.00124		3.2			2.75
135 "	w-26, 8421'	CB 206	.00064		1.0			2.72
136 "	W-26, 8720'	СВ 207	.0064		2.9			2.70
137 "	w-26, 8779'	CB 208	unsuitable		2.6			2.68
138 "	W-26, 8915'	CB 209	Unsuitable		5.1			2.63
139 "	w-26, 8940'	CB 210	4.50		6.0			2.65
140 "	W-Z6, 8968'	CB 211	.026		2.4			2.77
141	W-26, 8986'	CB 212	8.63		2.8			2.66
142 "	W-26, 9014'	CB 213	.021		3.7			2.63
143 N	W-26, 9028'	CB 214	(Fractured	1)	4.9			2.63
144 11	w-26, 9550'	CB 215	.59		7.5			2.62
					906.20	0/6		
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	•			- Notice from the long An A. School Co.	AV6 4			
		provide the proposition of the color of the colored th	e constitution and an experience of the same and the same	The Park of the Control of the Contr				
		and the first of the second of		make which his construction of the contract				The state of the s
· N · · · · · · · · · · · · · · · · · ·		The part born office a serious successful to the control of the co		the state of the s				
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		t of the second	where does have dear thanking, or accordance to	period supplication of the state of the stat				
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# 1970 FIELD DATA

PAN AMERICAN CORE ANALYSIS	DATA	SLUBBI
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PAN AMERICAN	CORE ANALYSIS DATA	STEET		
Ė.,	V. 1100 -	20 8 20 2 2 2 2		
Sec. 19				
Sample No. 1797	Perm. MDS Plug		EFF. Pors. Parcen	ï.
23 8				
			•)	
AR-l	0.16		9.3	
	0.05		6.0	
AR-3	0.11		8.2	
SA-2	O. II		0	
4				
	0.07		3.7	
AR-30	0.94			
ES-1 : W-16, 100'	0.46		10.3	
BS-5 W-16,717'	0.96		12.5	
BS-7 W-16, 890'	0.55		-12,5	
BS-9 W-16, 1045	0.13		8.3	
BS-12 W-16, 1334'	0.14		5.9	
BS-17 W-16, 1705, BS-20 W-16, 2169	0.09		1.9	
55.20	0.16		9 . 4.	
KS-7	0.09		9.1	
19-11 2428	0.18		12 1	
IS-24 W-15, 2438	0.09		5.4	
KS-25 W-15, 2421	0.27		3,3	
SA-5	0.36		11.6	
SA-8	0.16		4.8	
SA-11	0.05		1.3	
SA-15	0.54		4.9	
	·33		0,0	
2512	1			
BS-23 W-16, 2512	0.09		J	
BS-31 W-16, 3729 BS-34 W-16, 4196	0.05		3.3	
BS-34 W-16, 4776 BS-38 W-16, 4828	0.30		4.3	
	0.07		2.6	
ns-47	0.07		1.9	
BS-51	0:13		19	
BS-57	0.36		, 17 . 0	
BS-61	1.62		a 1: , 3	
SA-18	0.05		5.0	
SA-22	0.07		4 4	
P	, 29 auc		Guy 9010	
DM-7	0.05		()	
111-2	0.09		7.7	
IH-3	0.11		5.6	
IH-5.	4.47		0.5	
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