



02391454

## CHEMICAL &amp; GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279

Casper, Wyoming

Fac ID # 255973

## CORE ANALYSIS REPORT

Field Rangely, ColoradoWell No. 2-28 McLaughlinOperator Sharples Oil CorporationLocation SW SW 28-2N-102WFormation Weber

Depths

6112 - 6324Lab. No. 4997Analyzed by Chemical & Geological Laboratories Date May 10, 1951

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
1	6112-13	6.9	0.01	Saturated			
2	6113-14	5.9	0.01	Saturated			
3	6114-15	4.3	-0.01	Saturated			
4	6115-16	9.2	0.35	Saturated			
5	6116-17	7.6	0.03	Saturated			
6	6117-18	7.3	0.05	Saturated			
7	6118-19	5.3	0.01	Saturated			
8	6119-20	5.5	0.02	Saturated			
9	6120-21	5.2	-0.01	Saturated			
10	6121-22	7.3	0.02	Saturated			
11	6122-27	8.2	-0.01	Barren			
12	6127-28	6.9	0.04	Saturated			
13	6128-29	8.5	0.30	Saturated			
14	6129-30	7.8	0.03	Saturated			
15	6130-31	11.4	1.00	Saturated			
16	6131-32	7.4	0.08	Saturated			
17	6132-33	12.1	1.48	Saturated			
18	6133-34	11.0	1.34	Saturated			
19	6134-35	10.9	0.75	Saturated			
20	6135-36	6.1	0.01	Saturated			
21	6136-37	7.2	0.01	Saturated			
22	6137-38	5.1	0.01	Saturated			
23	6138-39	8.1	0.01	Saturated			
24	6139-40	9.6	1.23	Saturated			
25	6140-41	9.1	0.62	Saturated			
26	6141-42	8.3	1.07	Saturated			
27	6142-43	12.2	0.86	Saturated			
28	6143-44	6.5	0.06	Saturated			
29	6144-48	8.4	0.04	Barren			
30	6148-53	3.9	-0.01	Barren			
31	6153-58	2.1	-0.01	Barren			
32	6158-63	5.2	0.02	Barren			
33	6163-64	10.4	0.87	Saturated			
34	6164-65	7.9	0.12	Saturated			
35	6165-66	3.7	0.03	Barren			
36	6166-67	7.9	0.06	Barren			
37	6167-68	6.7	0.12	Saturated			

## SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH, FEET FROM	TO	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION
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# CHEMICAL & GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279  
Casper, Wyoming

## CORE ANALYSIS REPORT

Field Rangely, Colorado Well No. 2-28 McLaughlin  
Operator Sharples Oil Corporation Location SW SW 28-2N-102W  
Formation Weber Depths 6112 - 6324 Lab. No. 4997  
Analyzed by Chemical & Geological Laboratories Date May 10, 1951

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
38	6168-69	12.2	2.21	Saturated			
39	6169-70	12.0	0.54	Saturated			
40	6170-71	12.5	1.29	Saturated			
41	6171-72	9.2	0.40	Saturated			
42	6172-73	14.0	8.21	Saturated			
43	6173-74	14.1	6.30	Saturated			
44	6174-75	11.7	0.38	Saturated			
45	6175-76	10.5	0.35	Saturated			
46	6176-77	13.1	5.66	Saturated			
47	6177-78	12.6	2.49	Saturated			
48	6178-79	13.0	0.60	Saturated			
49	6179-80	13.5	1.13	Saturated			
50	6180-81	8.9	0.05	Barren			
51	6181-82	16.6	8.31	Saturated			
52	6182-83	14.4	1.34	Saturated			
53	6183-84	11.4	0.74	Saturated			
54	6184-85	12.4	0.65	Saturated			
55	6185-86	11.7	0.40	Saturated			
56	6186-87	13.7	2.20	Saturated			
57	6187-88	4.0	0.14	Saturated			
58	6188-89	16.9	2.16	Saturated			
59	6189-94	5.1	0.04	Barren			
60	6194-99	6.7	0.10	Barren			
61	6199-6200	9.0	0.16	Saturated			
62	6200-01	10.4	0.55	Saturated			
63	6201-02	8.3	0.23	Saturated			
64	6202-03	11.4	1.14	Saturated			
65	6203-04	8.1	0.11	Saturated			
66	6204-05	7.4	0.21	Saturated			
67	6205-06	7.8	0.20	Saturated			
68	6206-07	12.1	0.93	Saturated			
69	6207-08	11.1	8.21	Saturated			
70	6208-09	10.6	0.78	Saturated			
71	6209-10	12.6	2.30	Saturated			
72	6210-11	10.6	1.17	Saturated			
73	6211-12	9.7	0.43	Saturated			
74	6212-13	10.3	0.59	Saturated			

### SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH, FEET FROM	TO	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION
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## CHEMICAL &amp; GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279  
Casper, Wyoming

# CORE ANALYSIS REPORT

Field	Rangely, Colorado	Well No.	2-28 McLaughlin
Operator	Sharples Oil Corporation	Location	SW SW 28-2N-102W
Formation	Weber	Depths	6112 - 6324
Analyzed by	Chemical & Geological Laboratories	Lab. No.	4997
		Date	May 10, 1951

SAMPLE NO	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
75	6213-14	7.2	0.09	Saturated			
76	6214-19	7.0	0.05	Barren			
77	6219-24	7.0	0.09	Barren			
78	6224-29	5.3	0.03	Barren			
79	6229-34	6.0	0.02	Barren			
80	6234-41	2.9	0.01	Barren			
81	6241-42	9.6	1.94	Saturated			
82	6242-43	5.3	0.03	Saturated			
83	6243-44	12.9	2.20	Saturated			
84	6244-45	13.3	2.15	Saturated			
85	6245-46	7.5	0.16	Saturated			
86	6246-47	8.0	0.18	Saturated			
87	6247-48	6.2	0.06	Saturated			
88	6248-49	5.9	0.06	Saturated			
89	6249-50	5.7	0.06	Saturated			
90	6250-51	7.0	0.16	Saturated			
91	6251-52	7.4	0.10	Saturated			
92	6252-57	10.9	0.22	Barren			
93	6257-62	7.4	0.01	Barren			
94	6262-67	6.1	0.06	Barren			
95	6267-72	5.3	0.06	Barren			
96	6272-77	6.9	0.07	Barren			
97	6277-80	14.8	0.21	Barren			
98	6280-81	15.7	0.10	Saturated			
99	6281-82	13.9	0.26	Saturated			
100	6282-83	14.9	0.29	Saturated			
101	6283-84	17.4	1.53	Saturated			
102	6284-86	6.6	0.05	Barren			
103	6286-87	16.7	1.23	Saturated			
104	6287-88	14.4	0.67	Saturated			
105	6288-89	14.8	0.72	Saturated			
106	6289-90	12.6	0.26	Saturated			
107	6290-91	12.1	0.28	Saturated			
108	6291-92	11.3	0.16	Saturated			
109	6292-97	7.1	0.05	Barren			
110	6297-6302	7.3	0.05	Barren			

## SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH, FEET		FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION
FROM	TO					



# CHEMICAL & GEOLOGICAL LABORATORIES

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Casper, Wyoming

## CORE ANALYSIS REPORT

Field Rangely, Colorado Well No. 2-28 McLaughlin  
 Operator Sharples Oil Corporation Location SW SW 28-2N-102W  
 Formation Weber Depths 6112 - 6324 Lab. No. 4997  
 Analyzed by Chemical & Geological Laboratories Date May 10, 1951

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
111	6302-07	6.5	0.02	Barren			
112	6307-12	6.2	0.33	Barren			
113	6312-17	8.8	0.03	Barren			
114	6317-22	8.7	0.03	Barren			
115	6322-24	6.6	0.02	Barren			

### SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH, FEET FROM	TO	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION

**SUMMARY OF  
SATURATED SECTIONS**

<u>Depth</u>	<u>Feet of Sand</u>	<u>Porosity</u>	<u>Permeability</u>
6112-6122	10	6.5	0.05
6127-6144	17	8.7	0.52
6163-6165	2	9.2	0.50
6167-6180	13	11.9	2.28
6181-6189	8	12.6	1.99
6199-6214	15	9.8	1.14
6241-6252	11	8.1	0.64
6280-6284	4	15.5	0.30
6286-6292	6	13.7	0.55

**SUMMARY OF  
BARREN SECTIONS**

6122-6127	5	8.2	-0.01
6144-6163	19	4.9	0.02
6165-6167	2	5.8	0.05
6180-6181	1	8.9	0.05
6189-6199	10	5.9	0.07
6214-6241	27	5.6	0.04
6252-6280	28	8.6	0.11
6284-6286	2	6.6	0.05
6292-6324	32	7.3	0.08

SUMMARY OF  
SATURATED SECTIONS

Total footage . . . . .	86
Weighted average porosity . . . . .	10.1
Weighted average permeability . . . . .	0.98
Maximum porosity . . . . .	16.9
Minimum porosity . . . . .	4.0
Maximum permeability . . . . .	8.31
Minimum permeability . . . . .	-0.01

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SUMMARY OF  
BARREN SECTIONS

Total footage . . . . .	126
Weighted average porosity . . . . .	6.8
Weighted average permeability . . . . .	0.06
Maximum porosity . . . . .	14.8
Minimum porosity . . . . .	2.1
Maximum permeability . . . . .	0.33
Minimum permeability . . . . .	-0.01

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# CHEMICAL & GEOLOGICAL LABORATORIES

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## CORE ANALYSIS REPORT

Field Rangely, Colorado Well No. 8-33 McLaughlin Lease  
 Operator Sharples Oil Corporation Location C SW NW 33-2N-102W  
 Formation Lower Weber Depths 6008 - 6254 Lab. No. 4919  
 Analyzed by Chemical & Geological Laboratories Date April 12, 1951

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
38	6082-83	13.6	4.11	Saturated			
39	6083-84	15.0	14	Saturated			
40	6084-85	4.1	0.02	Saturated			
41	6085-86	15.3	14	Saturated			
42	6086-87	13.0	4.16	Saturated			
43	6087-88	7.2	0.03	Saturated			
44	6088-89	11.9	1.81	Saturated			
45	6089-90	3.6	0.03	Saturated			
46	6090-91	11.3	1.09	Saturated			
47	6091-92	13.5	4.54	Saturated			
48	6092-93	12.0	0.73	Saturated			
49	6093-94	13.1	1.51	Saturated			
50	6094-95	8.2	0.03	Saturated			
51	6095-96	14.8	0.58	Saturated			
52	6096-97	10.5	0.03	Saturated			
53	6097-98	8.2	0.02	Saturated			
54	6098-99	17.0	10	Saturated			
55	6099-6100	13.9	0.91	Saturated			
56	6100-01	15.5	8.16	Saturated			
57	6101-02	12.0	0.17	Saturated			
58	6102-03	15.0	7.19	Saturated			
59	6103-04	15.5	11	Saturated			
60	6104-05	15.0	1.61	Saturated			
61	6105-06	11.8	0.49	Saturated			
62	6106-07	12.0	0.28	Saturated			
63	6107-08	12.2	0.20	Saturated			
64	6108-09	11.2	0.88	Saturated			
65	6109-10	15.7	9.90	Saturated			
66	6110-15	11.3	0.08	Barren			
67	6115-20	11.7	0.15	Barren			
68	6120-25	10.9	0.10	Barren			
69	6125-30	12.3	0.30	Barren			
70	6130-35	11.7	0.10	Barren			
71	6135-40	10.2	0.08	Barren			
72	6140-43	8.2	0.06	Barren			
73	6143-44	6.4	0.02	Barren			
74	6144-48	7.5	0.01	Barren			

### SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH FROM	FEET TO	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION
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# CHEMICAL & GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279

Casper, Wyoming

## CORE ANALYSIS REPORT

Field Rangely, Colorado Well No. 8-33 McLaughlin Lease  
 Operator Sharples Oil Corporation Location C SW NW 33-2N-102W  
 Formation Lower Weber Depths 6008 - 6254 Lab. No. 4919  
 Analyzed by Chemical & Geological Laboratories Date April 12, 1951

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILL DARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
1	6008-13	5.7	0.03	Barren			
2	6013-18	9.2	0.72	Barren			
3	6018-23	4.2	0.14	Barren			
4	6023-24	7.1	0.04	Barren			
5	6024-25	11.6	0.69	Saturated			
6	6025-27	5.0	-0.01	Barren			
7	6027-28	11.6	0.81	Saturated			
8	6028-29	12.0	1.37	Saturated			
9	6029-30	14.1	5.96	Saturated			
10	6030-31	5.8	0.02	Saturated			
11	6031-32	12.6	1.39	Saturated			
12	6032-33	11.4	6.23	Saturated			
13	6033-34	15.0	11	Saturated			
14	6034-39	4.8	0.04	Barren			
15	6039-44	4.1	-0.01	Barren			
16	6044-49	4.3	-0.01	Barren			
17	6049-52	5.3	0.01	Barren			
18	6052-53	5.8	-0.01	Barren			
19	6053-54	6.7	0.04	Saturated			
20	6054-55	9.5	0.15	Saturated			
21	6055-56	11.0	0.43	Saturated			
22	6056-57	9.3	0.13	Saturated			
23	6057-58	7.3	0.05	Saturated			
24	6058-59	8.8	0.32	Saturated			
25	6059-60	8.1	0.12	Saturated			
26	6060-61	13.0	0.86	Saturated			
27	6061-62	6.0	0.03	Saturated			
28	6062-67	6.6	0.07	Barren			
29	6067-72	3.4	-0.01	Barren			
30	6072-75	6.7	0.02	Barren			
31	6075-76	9.2	0.14	Barren			
32	6076-77	5.0	0.10	Saturated			
33	6077-78	10.9	0.49	Saturated			
34	6078-79	15.6	7.44	Saturated			
35	6079-80	12.6	1.56	Saturated			
36	6080-81	14.2	5.95	Saturated			
37	6081-82	14.8	0.13	Saturated			

### SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH, FEET FROM	TO	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION
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# CHEMICAL & GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279

Casper, Wyoming

## CORE ANALYSIS REPORT

Field Rangely, Colorado Well No. 8-33 McLaughlin Lease  
 Operator Sharples Oil Corporation Location C SW NW 33-2N-102W  
 Formation Lower Weber Depths 6008 - 6254 Lab. No. 4919  
 Analyzed by Chemical & Geological Laboratories Date April 12, 1951

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
75	6148-53	9.1	0.01	Barren			
76	6153-55	9.7	0.02	Barren			
77	6155-56	10.2	0.14	Saturated			
78	6156-57	11.4	0.85	Saturated			
79	6157-58	13.6	1.40	Saturated			
80	6158-59	13.1	0.62	Saturated			
81	6159-60	10.6	0.06	Saturated			
82	6160-61	9.1	0.09	Saturated			
83	6161-62	7.5	0.02	Saturated			
84	6162-63	15.1	0.89	Saturated			
85	6163-64	6.8	0.07	Saturated			
86	6164-65	14.4	0.39	Saturated			
87	6165-66	11.6	0.14	Saturated			
88	6166-71	11.0	0.07	Barren			
89	6171-74	6.1	0.03	Barren			
90	6174-75	8.2	0.06	Barren			
91	6175-76	9.2	0.24	Saturated - Vertical Fracture			
92	6176-77	11.6	0.82	Saturated - Vertical Fracture			
93	6177-78	12.0	0.44	Saturated			
94	6178-79	12.5	1.03	Saturated			
95	6179-80	10.5	0.50	Saturated			
96	6180-81	10.9	0.50	Saturated			
97	6181-82	11.3	0.69	Saturated			
98	6182-83	11.6	1.40	Saturated			
99	6183-84	11.7	0.92	Saturated			
100	6184-85	10.1	0.34	Saturated			
101	6185-86	10.6	0.79	Saturated			
102	6186-87	9.0	0.25	Saturated			
103	6187-88	10.3	0.30	Saturated			
104	6188-93	8.0	0.03	Barren			
105	6193-98	4.8	-0.01	Barren			
106	6198-6203	2.3	-0.01	Barren			
107	6203-08	6.3	-0.01	Barren			
108	6208-13	7.9	0.35	Barren			
109	6213-18	9.0	0.57	Barren			
110	6218-23	8.0	0.03	Barren			
111	6223-28	3.3	-0.01	Barren			

### SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH, FEET FROM	TO	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION
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# CHEMICAL & GEOLOGICAL LABORATORIES

521 South Center St. P. O. Box 279

Casper, Wyoming

## CORE ANALYSIS REPORT

Field Rangely, Colorado Well No. 8-33 McLaughlin Lease  
 Operator Sharples Oil Corporation Location C SW NW 33-2N-102W  
 Formation Lower Weber Depths 6008 - 6254 Lab. No. 4919  
 Analyzed by Chemical & Geological Laboratories Date April 12, 1951

SAMPLE NO.	DEPTH, FEET	EFFECTIVE POROSITY	PERMEABILITY MILLIDARCIES	RESIDUAL OIL SATURATION		WATER SATURATION	
				PERCENT PORE SPACE	BARRELS PER ACRE FEET	PERCENT PORE SPACE	BARRELS PER ACRE FEET
112	6228-33	5.7	-0.01	Barren			
113	6233-38	7.0	0.02	Barren			
114	6238-43	5.1	-0.01	Barren			
115	6243-44	7.0	-0.01	Barren			
116	6244-45	10.1	0.32	Saturated			
117	6245-46	11.4	3.85	Saturated			
118	6246-47	10.2	0.32	Saturated			
119	6247-48	6.8	0.04	Saturated			
120	6248-49	9.6	0.41	Saturated			
121	6249-50	7.3	0.14	Saturated			
122	6250-53	5.4	0.04	Barren			
123	6253-54	6.5	0.12	Barren			

### SUMMARY

[Arithmetical average, excluding sections with less than one-tenth millidarcy permeability]

DEPTH, FEET FROM	TO	FEET OF SAND	AVERAGE POROSITY	AVERAGE PERMEABILITY	AVERAGE OIL SATURATION	AVERAGE WATER SATURATION

SUMMARY OF SATURATED SECTIONS

Depth	Interval	Average Porosity	Average Permeability
6024-6025	1	11.6	0.69
6027-6034	7	11.7	3.82
6053-6062	9	8.8	0.23
6076-6110	34	12.2	3.32
6155-6166	11	11.2	0.42
6175-6188	13	10.9	0.63
6244-6250	6	9.2	0.85

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Total footage.....	81
Weighted average porosity.....	11.2
Weighted average horizontal permeability.....	1.98

Maximum porosity.....	17.0
Minimum porosity.....	4.1
Maximum permeability.....	14
Minimum permeability.....	0.02

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### SUMMARY OF BARREN SECTIONS

Depth	Interval	Average Porosity	Average Permeability
6008-6024	16	6.5	0.23
6025-6027	2	5.0	-0.01
6034-6053	19	4.8	0.01
6062-6076	14	6.4	0.06
6110-6155	45	9.9	0.08
6166-6175	9	8.4	0.05
6188-6244	56	6.2	0.09
6250-6254	4	6.0	0.08

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Total footage..... 165  
Weighted average porosity..... 7.2  
Weighted average horizontal permeability..... 0.08

Maximum porosity..... 12.3  
Minimum porosity..... 2.3  
  
Maximum permeability..... 0.72  
Minimum permeability..... -0.01

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