



ROUTINE CORE ANALYSIS
CHAMPLIN PETROLEUM COMPANY
ENGLEWOOD, COLORADO

ADAMS COUNTY, COLORADO

#2 Downing 21-³~~29~~, Sec. 29, T.2S., R.58W.

July 11, 1985

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CONVENTIONAL CORE ANALYSIS REPORT

COMPANY : CHAMPLIN PETROLEUM CO.
WELL NAME : #2 DOWNING 21-29
FILE NAME : RMD987

No.	SAMPLE I.D.	DEPTH	PERMEABILITY (md)	POROSITY (%)	GRAIN DENSITY (g/cc)	SATURATION WATER (%)	OIL (%)	LITHOLOGY/COMMENTS
1	152-1	6000-01	.92	7.00	2.63	48.90	2.70	Sst- lt gry; vf gr; sbrndd-rndd; w srt; w consol; v sl arg
2	152-2	6001-02	5.80	13.30	2.64	88.30	0.00	Sst- lt gry; vf gr; sbrndd-rndd; w srt; w consol; arg; sl calc; sm Sh lam
3	152-3	6002-03	3.90	11.80	2.64	2.80	0.00	Sst- lt gry; vf-m gr; sbang- w rndd; w srt; w consol; sl arg; sl glauc; sm Sh lam
4	152-4	6003-04	1.90	9.80	2.64	52.80	0.00	Sst- lt gry; vf-m gr; sbang- w rndd; w srt; w consol; sl arg; sl glauc; sm Sh lam
5	152-5	6004-05	.92	11.80	2.63	42.60	0.00	Sst- lt gry; vf-m gr; sbang- w rndd; w srt; w consol; sl arg; sl glauc; sm Sh lam
6	152-6	6005-06	4.90	13.80	2.64	54.30	0.00	Sst- lt gry mott blk dk gn; vf-f gr; sbang-rndd; w srt; w consol glauc; Sh lam
7	152-7	6006-07	3.20	14.70	2.64	54.00	1.50	Sst- lt gry mott blk dk gn; vf-f gr; sbang-rndd; w srt; w consol glauc; Sh lam
8	152-8	6007-08	3.40	15.00	2.64	77.00	0.00	Sst- lt gry mott blk dk gn; vf-f gr; sbang-rndd; w srt; w consol glauc; Sh lam
9	152-9	6008-09	.16	9.50	2.62	65.30	6.50	Sst- lt gry mott blk dk gn; vf-f gr; sbang-rndd; w srt; w consol glauc; hi Sh lam; sl glauc
10	152-10	6009-10	.56	13.40	2.63	61.90	0.00	Sst- lt gry mott blk dk gn; vf-f gr; sbang-rndd; w srt; w consol glauc; hi Sh lam; sl glauc
11	152-11	6010-11	1.70	16.40	2.63	58.70	0.00	Sst- lt gry; vf-f gr; sbang-rndd; w srt; w consol; sl glau; Sh lam
12	152-12	6011-12	2.00	11.80	2.63	21.80	0.00	Sst- lt gry; vf-f gr; sbang-rndd; w srt; w consol; sl glau; Sh lam
13	152-13	6012-13	.85	9.70	2.62	55.00	0.00	Sst- lt gry; vf-f gr; sbang-rndd; w srt; w consol; sl glau; v sl Sh lam; slty
14	152-14	6013-14	1.40	10.50	2.63	51.30	0.00	Sst- lt gry; vf-f gr; sbang-rndd; w srt; w consol; sl glau; Sh lam

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						WATER (%)	OIL (%)	
15	152-15	6014-15	.62	12.20	2.63	67.80	0.00	Sst- lt gry; vf-f gr; sbang-rndd; w srt; w consol; sl glau; Sh lam
16	152-16	6015-16	.34	7.30	2.63	21.00	0.00	Sst- lt gry; vf-f gr; sbang-rndd; w srt; w consol; sl glau; v sl Sh lam; slty; calc
17	152-17	6016-17	.82	12.10	2.63	55.20	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; sl Sh lam; sl calc
18	152-18	6017-18	1.80	10.00	2.62	52.90	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; sl Sh lam; sl calc
19	152-19	6018-19	.97	11.00	2.63	74.80	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; sl Sh lam; v sl calc
20	152-20	6019-20	.16	7.30	2.62	51.10	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; sl Sh lam; v sl calc
21	152-21	6020-21	.89	12.60	2.62	42.70	0.00	Sst- lt gry; vf-f gr; sbang-rndd; w srt; w consol; glau; sl Sh lam; slty
22	152-22	6021-22	.28	9.50	2.63	54.00	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; sl Sh lam; sl calc
23	152-23	6022-23	.66	9.90	2.63	53.70	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; sl Sh lam; v calc
24	152-24	6023-24	.07	6.40	2.61	54.30	9.90	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; v arg; v calc; slty
25	152-25	6024-25	.08	6.30	2.61	71.00	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; v arg; v calc; slty
26	152-26	6025-26	.19	7.60	2.62	51.10	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; v arg; sl calc; slty
27	152-27	6026-27	.28	8.90	2.62	62.30	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; v arg; sl calc; slty
28	152-28	6027-28	.64	13.50	2.62	52.80	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glau; v arg; sl calc; slty

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29	152-29	6028-29	.12	5.50	2.62	71.40	0.00	Sst- lt gry mott gn; vf-f gr; sbang-rndd; w srt; w consol; glauc; v arg; sl calc; slty
30	152-30	6029-30	5.60	13.80	2.63	34.40	0.00	Sst- v lt gry mott dk brn grn; vf-m gr; sbang-rndd; mod srt; w consol; sl glauc; slty
31	152-31	6030-31	5.10	13.20	2.64	45.60	0.00	Sst- v lt gry mott dk brn grn; vf-m gr; sbang-rndd; mod srt; w consol; sl glauc; slty
32	152-32	6031-32	4.90	11.70	2.63	46.70	1.20	Sst- v lt gry mott dk brn grn; vf-m gr; sbang-rndd; mod srt; w consol; sl glauc; slty
33	152-33	6032-33	3.10	13.30	2.63	50.50	4.90	Sst- v lt gry mott dk brn grn; vf-m gr; sbang-rndd; mod srt; w consol; sl glauc; slty
34	152-34	6033-34	1.40	7.40	2.64	34.30	8.60	Sst- crm mott gn blk; vf-m gr; sbang-rndd; mod srt; w consol; sl glauc; sl calc

PERMEABILITY vs POROSITY

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$$\text{PERMEABILITY (md)} = .0252 * e^{.3332 * \text{POROSITY (\%)}}$$

