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## CORE LABORATORIES, INC

Petroleum Reservoir Engineering

DALLAS, TEXAS

Company PLAINS EXPLORATION COMPANY Formation "D" SAND Page 1 of 2  
 Well CEBAUER NO. 2 Cores DIAMOND CONVENTIONAL File RP-2-2273  
 Field RUBY Drilling Fluid WATER BASE MUD Date Report 1-12-60  
 County WASHINGTON State COLORADO Elevation 4559 KB Analysts DI  
 Location C SW SE 28 2N 54W Remarks SERVICE NO. 8

### CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		OIL % VOLUME	TOTAL WATER % PORE		
1	4820-21	3.3	2.3	11.9	4.2	42.0	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings, Vertical Fracture.
2	4821-22	61	46	17.6	2.8	50.5	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
3	4822-23	329	316	24.6	0.0	59.5	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
4	4823-24	90	26	19.3	2.6	42.5	(2)	Sandstone, Fine-Grain, Numerous Thin Shale Laminations.
5	4824-25	419	370	24.2	0.8	47.0	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
6	4825-26	249	227	22.3	0.9	67.5	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
	4826-27	267	231	21.9	0.0	42.5	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
8	4827-28	0.0	0.0	2.4	0.0	58.5	(2)	Sandstone, Fine-Grain, Silty, Vertical Fracture.
9	4828-29	58	1.9	21.7	0.0	43.8	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings.
10	4829-30	465	408	23.8	0.8	41.2	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings, Vertical Fracture.
11	4830-31	325	291	21.7	0.9	40.5	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings.
12	4831-32	193	160	21.6	1.9	45.5	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings.
13	4832-33	323	287	21.8	0.9	38.1	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings.
14	4833-34	166	0.0	17.0	4.7	53.5	(2)	Sandstone, Fine-Grain, Numerous Thin Shale Laminations.
15	4834-35	280	222	21.2	0.0	45.4	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings.
16	4835-36	124	93	20.9	2.9	47.8	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
17	4836-37	79	54	18.9	3.2	45.5	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
18	4837-38	160	5.1	20.8	3.8	43.1	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
19	4838-39	69	11	23.1	10.8	43.4	(2)	Sandstone, Fine-Grain, Numerous Thin Carbonaceous Partings.

## NOTE:

(\*) REFER TO ATTACHED LETTER.

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

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CORE ANALYSIS RESULTS  
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		OIL % VOLUME	TOTAL WATER % PORE		
20	4839-40	141	121	21.7	13.4	42.0	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings.
21	4840-41	30	1.6	19.3	18.1	47.0	(2)	Sandstone, Fine-Grain, Thin Shale Partings, Silty.
22	4841-42	198	187	22.4	11.6	43.4	(2)	Sandstone, Fine-Grain, Clean.
23	4842-43	205	189	21.4	13.6	38.3	(2)	Sandstone, Fine-Grain, Clean.
24	4843-44	231	408	21.9	17.3	40.5	(2)	Sandstone, Fine-Grain, Clean.
25	4844-45	284	352	23.2	16.8	42.3	(2)	Sandstone, Fine-Grain, Clean, Vertical Fracture.
26	4845-46	325	318	23.3	10.7	43.0	(2)	Sandstone, Fine-Grain, Clean, Vertical Fracture.
27	4846-47	650	540	20.0	13.5	39.5	(2)	Sandstone, Fine-Grain, Clean.
28	4847-48	363	318	20.9	13.9	43.5	(2)	Sandstone, Fine-Grain, Clean.
	4848-49	272	169	20.7	12.1	51.6	(2)	Sandstone, Fine-Grain, Clean.
30	4849-50	381	336	21.8	14.7	44.5	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings, Vertical Fracture.
31	4850-51	88	8.8	20.5	17.1	43.5	(2)	Sandstone, Fine-Grain, Numerous Thin Shale Laminations.
32	4851-52	69	5.1	21.9	17.8	42.5	(2)	Sandstone, Fine-Grain, Numerous Thin Carbonaceous Partings, Vertical Fracture.
33	4852-53	665	645	21.5	16.3	41.0	(2)	Sandstone, Fine-Grain, Numerous Thin Carbonaceous Partings.
34	4853-54	267	291	22.3	17.5	45.8	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
35	4854-55	495	480	22.0	11.4	51.0	(2)	Sandstone, Fine-Grain, Occasional Thin Shale Partings.
36	4855-56	0.0	0.0	3.7	0.0	57.0	(2)	Sandstone, Fine-Grain, Slightly Calcareous, Numerous Thin Carbonaceous Partings, Hard.
37	4856-57	302	280	22.6	11.1	36.3	(2)	Sandstone, Fine-Grain, Clean.
38	4857-58	329	280	16.4	7.9	22.0	(2)	Sandstone, Fine-Grain, Occasional Thin Carbonaceous Partings.
39	4858-58.5	148	3.3	22.5	2.7	57.7	(2)	Sandstone, Fine-Grain, Numerous Thin Shale Laminations.

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