



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

P. O. BOX 30
CASPER, WYOMING 82602

October 25, 1983
WHW:84

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OCT 31 1983
COLO. OIL & GAS CONS. COMM.

State of Colorado
Oil & Gas Conservation Commission
1313 Sherman St., Rm 721
Denver, Colorado 80203

ATTN: Mr. Smith

RE: Core Analysis Report
Sohio Petroleum Co.
Larson 4-12 ✓
NW SW Sec. 4, T3S, R64W ✓
Adams Co., Colorado ✓

Dear Mr. Smith:

Attached, as requested, is a geologic description of the side wall cores taken from the Larson 4-12. In general, the sample quality was poor with most samples broken and coated with drilling mud. For these reasons porosity and permeability analyses were not obtained for the core samples. We apologize for the untimely manner in which this information is submitted.

Sincerely,

W. H. Ward
District Manager

CDP:ea
Attachment

cc: File

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Sohio Larson 4-12
Sidewall Samples

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<u>Sidewall #</u>	<u>Log Depth</u>	<u>Formation</u>	<u>Recovery</u>	<u>Condition</u>
1	5006	Sussex	1"	Broken (2pcs)
2	5026	Sussex	1 1/4"	Broken (2pcs)
3	5034	Sussex	3/4"	Whole
4	5124	Sussex	1 1/4"	Broken
5	7416	Niobrara	1/2"	Broken
6	7420	Niobrara	3/4"	Broken/Crushed
7	7606	Ft. Hays	3/4"	Broken/Crushed
8	7610	Ft. Hays	1"	Broken/Crushed
9	7612	Ft. Hays	1"	Broken/Crushed
10	7614	Ft. Hays	3/4"	Broken
11	7620	Ft. Hays	1"	Broken
12	7734	Greenhorn	1"	Broken
13	8022	D	1/2"	Broken/Crushed
14	8024	D	1/2"	Broken/Crushed
15	8025	D	1/2"	Broken/Crushed
16	8026	D	1/2"	Broken
17	8027	D	3/4"	Broken/Crushed
18	8092	J ₁	1/2"	Broken
19	8094	J ₁	1/2"	Broken
20	8096	J ₁	3/4"	Broken
21	8098	J ₁	Drilling Mud	
22	8112	J ₂	1/2"	Broken
23	8114	J ₂	1"	Broken (2pcs)
24	8116	J ₂	1/2"	Whole
25	8118	J ₂	1"	Broken
26	8222	Skull Creek	1/2"	Whole
27	8224	Skull Creek	3/4"	Whole
28	8232	Skull Creek	1/2"	Broken
29	8234	Skull Creek	3/4"	Broken
30	8262	Dakota	1/4"	Broken
31	8264	Dakota	Drilling Mud	

DVR	
FJP	
HMM	✓
JAM	✓
RCC	
LAR	
GCM	

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Sample Description

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<u>Sample #</u>	<u>Description</u>
1	<u>SS</u> : qtz, ltgy-grn-ltbrn, vfn-fn, subrnd, poorly srted, calc, v arg, poor intgran por, n/s.
2	<u>SH</u> : lt-dkgy, soft, bent, calc, sl slty, swells and disintegrates in water, intbdd with thin (2-5mm) lams of: <u>SS</u> : qtz, clr-wht, vfn, subang, poorly std, v friable, calc, fair intgran por, n/s.
3	<u>SH/SS</u> : A/A SS lams inc to 10mm thick, n/s.
4	<u>SS</u> : lithic, wht-ltgy, silty-vfn, subang, friable, calc, v arg, poor intgran por, swells and disintegrates in water, n/s.
5	<u>LS</u> : chalky, wht, vfn, med hd, NVP, <u>fnt gold fluor, lt yl-grn strmg cut fluor.</u>
6	<u>LS</u> : chalky, lt-dkgy, vfn, med hd, varg, NVP, <u>no fluor, slow bl-blgrn strmg cut fluor faint hydrocarbon odor, 50% insoluble residue when dissolved in acid.</u>
7	<u>LS</u> : chalky, lt-dkgy, vfn, md hd, varg, NVP, no fluor/cut, swells and disintegrates in water, 50% insoluble residue when dissolved in acid
8	<u>LS</u> : chalky, wht-gy, vfn, med hd, varg, NVP, no fluor/cut, swells and disintegrates in water, 50% insoluble residue when dissolved in acid.
9	<u>LS</u> : chalky, wht, vfn, med hd, NVP, no fluor/cut, less than 10% insoluble residue when dissolved in acid.
10	<u>LS</u> : chalky, wht, vfn, soft, NVP, no fluor/cut, less than 1% insoluble residue when dissolved in acid.
11	<u>LS</u> : chalky, wht-ltgy, vfn, soft, NVP, no fluor/cut, less than 10% insoluble residue when dissolved in acid
12	<u>LS</u> : mdstn, dk gy, hd, NVP, occ frags-calcite xtal lined, <u>fnt bl fluor, slow milky bl cut fluor.</u>

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- 13 SLST: wht-ltgy, friable, abnt clay fill, swells and disintegrates in water, fnt grn fluor, slow milky bl cut fluor.
- 14,15 SS: qtz, ltgy, vfn, friable, slty, sl calc, occ well cmted clusters, abnt clay fill, poor fnt grn fluor, slow milky bl strmg cut fluor.
- 16 SS: qtz, wht-ltgy, vfn, subang, fair sorting, friable, occ well cmted clusters, sl calc, abnt clay fill, fair intgran por, pale bl-wht fluor, slow strmg milky bl-wht cut fluor.
- 17 SS: qtz, clr, vfn, subang, well sorted, sl friable, non calc, fair intgran por, lt brn OS, faint odor, faint yel-grn fluor, slow milky bl-grn cut fluor.
- 18 SS: qtz, wht-ltgy, vfn, subrnd, fair sorting, poor intgran por, no fluor/cut. Abnt clay, wht-lt brn, calc.
- 19,20 SS: qtz, clr-wht, vfn, subang, well sorted, poor intgran por, non calc, no fluor/cut. Abnt clay, wht-lt brn, calc. Occ sh partings, blk, carb, non calc.
- 21 Drilling Mud
- 22 SS: qtz, clr-lt brn, vfn, subang, fair sorting, poor intgran por, non calc, friable to well cmted, no fluor/cut. Occ sh partings, blk, non calc. Some clay fill, lt brn, non calc.
- 23,24,25 SS: qtz, clr-lt brn, vfn, subang-subrnd, well sorted, poor intgran por, sl calc, friable to well cmted, sample swells and disintegrates in water or acid, pale bl fluor, slow pale yel-wht cut fluor when crushed. Abnt clay lt brn, swelling, non calc. Abnt sh partings, blk, carb, non calc.
- 26,27 SS: qtz, clr, lt brn-ltgy, vfn, subrnd, well sorted, sl calc, friable, poor intgran por, sample swells and disintegrates in water or acid, no fluor/cut. Abnt sh partings, lt-dkgy, non calc. Abnt clay, ltgy, swelling, sl calc.
- 28 SS: A/A becomes calcite cmted. Disintegrates slowly in water leaving clusters of well cmted qtz grains. Sl less clay than previous samples. No fluor/cut.

- 29 SS: A/A only sl calc, v little clay, no fluor/
cut. Abnt sh partings, lt-dkgy, carb in
part, non calc.
- 30 SS: A/A sand is intbdd with sh, dkgy-blk,
carb, non calc.
- 31 Drilling Mud

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