

4924 Macafee Road
Torrance, California 90505

February 13, 1976

Mr. J.E.Kapteina
Oil Conservation Commission
P.O.Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Kapteina:

I recently arranged with Federal Abstract Co. in Santa Fe to send me copies of the files on the two wells in Sec. 28, T 15N-R 34E. In reviewing the various items there seemed to be some mix up in well designation.

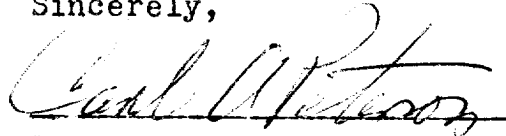
During the drilling there were a number of different people who supervised the drilling and made out reports to your office. Perhaps this is the reason for the mix-up.

Enclosed is a sheet I compiled based upon observation on the scene, personal notes, the material in the files and discussions with others that had been on site. This may be just old history now, but I thought you might want to add the sheet to the file so that future questions can be resolved.

The key item in identification is the casing record. Well 1-28 started with cable tools and ran into many problems containing the side walls. Therefore they had to put in a protection string at 700 plus feet. Well 2-28 does not have an intermediate casing.

One question came up as to whether there were two or three wells in Sec. 28. This arose no doubt by the report of abandonment on 1-28 when it was at 1205 feet and the later re-entry in the same hole.

Sincerely,



Carl A. Peterson

1. The first part of the paper is devoted to a study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x f(t) dt + \int_0^x f(t) f'(t) dt + \int_0^x f(t) f''(t) dt + \dots$$

It is shown that the function $f(x)$ is continuous and differentiable on the interval $[0, 1]$ and that it satisfies the equation

$$f(x) = \int_0^x f(t) dt + \int_0^x f(t) f'(t) dt + \int_0^x f(t) f''(t) dt + \dots$$

It is also shown that the function $f(x)$ is bounded on the interval $[0, 1]$ and that it attains its maximum and minimum values at the endpoints of the interval.

The second part of the paper is devoted to a study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x f(t) dt + \int_0^x f(t) f'(t) dt + \int_0^x f(t) f''(t) dt + \dots$$

It is shown that the function $f(x)$ is continuous and differentiable on the interval $[0, 1]$ and that it satisfies the equation

$$f(x) = \int_0^x f(t) dt + \int_0^x f(t) f'(t) dt + \int_0^x f(t) f''(t) dt + \dots$$

IDENTIFICATION OF TWO POWERS WELLS
Section 28, T 15N R 34E N.M.P.M.

	1- State(1-28)	2- State(2-28)
Original Designation on Permit	A	K
Unit Letter	NE $\frac{1}{4}$ NE $\frac{1}{4}$	NE $\frac{1}{4}$ SW $\frac{1}{4}$
Description of unit letter	1316.2 FEL	1934.5 FWL
Survey location	825 FNL	2400.4 FSL
Surface Elevation	4076.39	4052.56
Date Permit Approved	8/21/69	10/31/69
State Lease Number	L-72	L-73
Spud in date	9/9/69	11/5/69
Surface casing set	318' 10"	340' 8 5/8"
Intermediate casing	765' 7"	NONE
Final Casing before testing	2204' 4 $\frac{1}{2}$ "	2237' 4 $\frac{1}{2}$ "
Total Depth Drilled	2747	2540
Approx.date closed in	4/1/71	1/15/70
Date plug and abandon	10/26/73	10/30/73

1-28 was started with cable tools on Sept. 9, 1969. The well was temporarily abandoned on Dec. 2, 1969 at a total depth of 1205 feet. Surface casing and an intermediate casing were set during this interval.

After the above well had been in progress for about two months, Powers brought in a rotary rig and ~~started drilling at the new location~~ started drilling at the new location on Nov. 5, 1969. That well reached a total depth of 2540 feet on or about Dec. 13, 1969. The well was cased to 2237' and tested through 4 sets of perforations. The well was closed in on or about Jan 15, 1970.

A new rotary rig was brought in and set up over the 1-28 hole on or about March 6, 1970. That rig took the hole down from 1205' to the total depth of 2747'. Part of the testing was done after setting 4 $\frac{1}{2}$ " casing on March 17, 1970. A year later, on March 29, 1971, casing was shot off and reset and tested in the upper formations.

The above information was compiled from personal notes and all available sources known by Carl A. Peterson who owned the two base leases on which the wells were drilled and who had given a farmout to the Powers.


Carl A. Peterson
2/11/76