



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

October 27, 1982

Petro Valley Services Corporation
P. O. Box 449
Moran, Kansas

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Swarner-Woirhaye Lease, Well No. 110, located in Section 2, T-20S, R-22E, Linn County, Kansas.

The core was sampled by a representative of Oilfield Research Laboratories after being received unbagged in our laboratory on October 25, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/rmc

5 c Moran, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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LOG

Company Petro Valley Services Corporation Lease Swarner-Woirhay Well No. 110

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>SQUIRREL SANDSTONE</u>
600.0 - 604.3	Gray and brown finely laminated shale and sandstone.
604.3 - 611.3	Brown sandstone with uniform gray shale partings.
611.3 - 612.5	Brown sandstone.
612.5 - 613.0	Grayish brown calcareous shaly sandstone.
613.0 - 614.0	Brown slightly calcareous sandstone.
614.0 - 615.2	Brown sandstone.
615.2 - 616.8	Gray shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Petro Valley Services Corporation Lease Swarner-Woirhaye Well No. 110

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	604.7	20.0	31	15	46	481	23.
2	606.5	21.3	31	18	49	512	19.
3	607.6	19.6	35	20	55	532	10.
4	608.5	18.8	44	9	53	642	11.
5	609.6	18.7	41	14	55	595	20.
6	610.7	19.4	39	13	52	587	18.
7	611.6	19.9	39	5	44	602	31.
8	613.8	16.2	43	16	59	540	13.
9	614.6	21.6	45	7	52	754	50.