OILFIELD RESEARCH LABORATORIES
536 NORTH HIGHLAND · CHANUTE, KANSAS 66720 · PHONE (316) 431-2650

March 2, 1982

Zoandra Petroleum, Inc.
P. O. 931
Chanute, Kansas 66720

Gentlemen:

Attached hereto are the results of tests run on the rotary cores taken from the Horner Lease, Well No. 8, located 1155' from the East Line and 495' from the South Line of the Northwest ¼ in Section 3, T-31S, R-15E, in Montgomery County, Kansas.

The cores were sampled and sealed in plastic bags by a representative of the client and were submitted to our laboratory on February 25th and February 27th, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

4 c to Chanute, Kansas
1 c to Aurora, Colorado

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LOG

Name Zoandra Petroleum, Inc. Lease Horner Well No. 8

Depth Interval, Feet	Description
	PERU SAND
706.0 - 714.6	Grayish light brown shaly sandstone.
714.6 - 718.0	Light brown slightly shaly sandstone.
718.0 - 719.0	Grayish light brown very shaly sandstone.
719.0 - 720.3	Alternate layers grayish light brown shaly sandstone and gray shaly sandstone.
720.3 - 722.4	Gray shaly sandstone.
722.4 - 722.7	Grayish light brown very shaly sandstone.
722.7 - 723.7	Gray shaly sandstone.
	BARTLESVILLE SAND
973.0 - 974.4	Gray very shaly sandstone.
974.4 - 977.0	Grayish brown very shaly sandstone.
977.0 - 977.5	Brown sandstone.
977.5 - 979.5	Grayish brown very shaly sandstone.
979.5 - 983.0	Brown sandstone.
983.0 - 984.2	Grayish brown slightly carbonaceous sandstone.
984.2 - 984.9	Brown sandstone.
984.9 - 985.5	Grayish brown very shaly sandstone.
985.5 - 986.2	Gray shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Zoandra Petroleum, Inc Lease Horner Well No. 8

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. /A Ft.	Perm., Mill.
			Oil	Water	Total		
	PERU SAND						
1	706.7	13.9	23	58	81	248	0.74
2	707.6	15.9	24	55	79	281	4.9
3	708.4	15.0	29	58	87	338	2.2
4	709.4	14.5	18	62	80	203	4.1
5	710.6	9.4	27	70	97	197	0.39
6	711.4	13.8	30	57	87	321	1.6
7	712.5	14.4	37	50	87	413	1.7
8	713.5	14.3	8	72	80	89	3.1
9	714.7	15.3	30	48	78	356	6.6
10	715.7	16.0	40	52	92	497	8.3
11	716.5	11.9	24	69	93	222	6.8
12	717.4	16.7	35	50	85	454	3.3
13	718.4	15.2	7	79	86	83	2.0
14	719.4	16.3	14	65	79	177	6.0
15	720.6	15.7	4	92	96	49	0.20
16	721.6	13.9	13	83	96	140	Imp.
17	722.5	15.1	15	76	91	179	0.89
18	723.6	12.7	11	86	97	108	Imp.
	BARTLESVILLE SAND						
19	973.7	5.1	7	89	96	28	Imp.
20	974.6	7.4	21	64	85	121	Imp.
21	975.5	11.7	21	56	77	191	Imp.
22	976.8	10.1	41	35	76	321	0.74
23	977.4	14.7	32	18	50	365	38.
24	987.5	11.6	35	30	65	315	2.4
25	979.3	7.1	28	60	88	154	Imp.
26	980.5	18.7	38	28	66	551	99.
27	981.4	18.2	48	16	64	678	96.
28	982.5	18.9	42	23	65	616	127.
29	983.2	17.6	34	23	57	464	56.
30	984.6	18.6	37	19	56	534	127.
31	985.2	6.5	27	66	93	136	Imp.