March 1, 2000

Phoenix Kansas Energy, LLC
536 N. Highland
Chanute, KS 66720

Gentlemen:

Attached hereto are the results of testing the rotary core taken from the Alexander B Lease. Well No.PO-4, located 2640'NSL and 2970' WEL, Section 35, T23S, R16E, Woodson County, Kansas.

The core was sampled by a representative of the client and submitted to our laboratory on February 9, 2000.

Your business is greatly appreciated.

OILFIELD RESEARCH LABORATORIES

Alan M. Dunning

AMD: td

1 c: John Bumgardner
1 c: Paul Beck

LOG

Company Phoenix Kansas Energy, LLC Lease Alexander B Well No. PO-4

Squirrel Sandstone

Depth Interval, Feet	Description
975.0 – 975.3	Limestone, gray, fossiliferous, with scattered shale partings.
975.3 – 975.9	Shale, gray, containing a vertical fracture.
975.9 – 976.7	Shale, gray, with scattered brown sandstone streaks, and containing a vertical fracture.
976.7 – 976.9	Sandstone, dark brown.
976.9 – 977.1	Shale, gray, containing a vertical fracture.
977.1 – 980.4	Sandstone, dark brown, with widely scattered shale and mica partings and inclusions.
980.4 – 980.9	Shale, gray, with scattered brown, sandstone partings.
980.9 – 981.7	Sandstone, dark brown, with scattered shale and mica partings.
981.7 – 983.7	Sandstone, grayish brown, shaly, with scattered shale and mica partings.
983.7 – 984.3	Shale, gray, with widely scattered light brown, sandstone inclusions.
984.3 – 984.9	Sandstone, grayish brown, very shaly, with scattered shale and mica partings.
984.9 – 988.0	Shale, gray, with widely scattered light brown, sandstone inclusions.
988.0 – 988.3	Sandstone, light grayish brown, shaly, with scattered shale and mica partings.
988.3 – 989.3	Shale, gray, with widely scattered light brown, sandstone inclusions.
989.3 – 990.0	Shale, gray.

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RESULTS OF SATURATION & PERMEABILITY TESTS

Company: **PHOENIX KANSAS ENERGY, LLC** Lease: **Alexander B** Well No. **PO-4**

Sample No.	Depth, Feet	Porosity, Percent	Percent Saturation			Oil Content Bbls. / A.Ft.	Perm., Md.	Feet of Sand		Total Oil Content	Permeability Capacity Ft. X Md.
			Oil	Water	Total			Ft.	Cum.Ft.		
1	977.3	22.1	57	16	73	977	36.	0.9	0.9	879	32.40
2	978.4	20.6	51	23	74	815	62.	1.0	1.9	815	62.00
3	979.4	18.3	46	31	77	653	47.	0.7	2.6	457	32.90
4	980.3	19.3	65	23	88	973	41.	0.7	3.3	681	28.70
5	981.5	22.9	60	22	82	1066	129.	0.8	4.1	853	103.20
6	982.3	15.5	54	37	91	649	1.5	1.0	5.1	649	1.50
7	983.3	16.9	56	26	82	734	4.5	1.0	6.1	734	4.50
8	984.5	15.3	64	25	89	760	0.44	0.6	6.7	456	0.26

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RESULTS OF LABORATORY FLOODING TESTS

Company: **PHOENIX KANSAS ENERGY, LLC** Lease: **Alexander B** Well No. **PO-4**

Sample No.	Depth Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Effective Permeability Millidarcys*
			%	Bbls / A.Ft.	%	Bbls / A.Ft.	% Oil	% Water	Bbls / A.Ft.	
1	977.3	21.8	57	964	12	203	45	50	761	3.00
2	978.4	20.7	51	819	7	112	44	52	707	6.53
3	979.4	18.5	46	660	4	57	42	56	603	2.00
4	980.3	19.3	65	973	20	299	45	52	674	4.33
5	981.5	22.8	60	1061	17	301	43	55	760	8.14
6	982.3	15.5	54	649	0	0	54	37	649	Imp.
7	983.3	17.0	56	739	10	132	46	52	607	0.40
8	984.5	15.1	64	750	0	0	64	25	750	Imp.

* Determined by passing water through sample which still contains residual oil.