March 22, 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 A Lease. Well No. PW-24, located 1650'NSL and 4290' 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 29, 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 A Well No. PW-24

Squirrel Sandstone

Depth Interval, Feet	Description
993.0 - 993.8	Shale, gray, with widely scattered light brown, sandstone streaks.
993.8 - 994.4	Sandstone, light grayish brown, very shaly, with scattered shale streaks.
994.4 - 995.1	Sandstone, brown, slightly shaly, with scattered shale and mica partings.
995.1 - 996.0	Sandstone, dark brown.
996.0 - 997.0	Sandstone, dark brown, with widely scattered shale and mica inclusions.
997.0 - 998.6	Sandstone, grayish brown, shaly, with scattered shale and mica partings.
998.6 - 999.3	Sandstone, dark brown, with widely scattered shale and mica inclusions.
999.3 - 999.8	Sandstone and shale, brown and gray, laminated.
999.8 - 1000.5	Sandstone, dark brown, with widely scattered shale and mica inclusions.
1000.5 - 1001.0	Shale, gray, with widely scattered light brown, sandstone streaks.
1001.0 - 1002.0	Sandstone and shale, brown and gray, laminated.
1002.0 - 1002.5	Sandstone, dark brown, with scattered shale and mica partings.
1002.5 - 1003.8	Shale, gray, with widely scattered light brown, sandstone inclusions.
1003.8 - 1004.6	Sandstone, brown, with scattered shale and mica partings.
1004.6 - 1005.6	Sandstone, grayish brown, shaly, with scattered shale and mica partings.
1005.6 - 1006.0	Sandstone, light grayish brown, very shaly.
1006.0 - 1007.1	Shale, gray, with widely scattered light brown, sandstone partings.
1007.1 - 1008.1	Sandstone, grayish brown, very shaly, with scattered shale and mica partings.

Company Phoenix Kansas Energy, LLC Lease Alexander A Well No. PW-24

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Depth Interval, Feet	Description
1008.1 – 1008.7	Shale, gray, with widely scattered light brown, sandstone streaks.
1008.7 – 1010.0	Shale, gray.

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RESULTS OF SATURATION & PERMEABILITY TESTS

Company: **PHOENIX KANSAS ENERGY, LLC** Lease: **Alexander A** Well No. **PW-24**

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	994.5	16.7	57	32	89	738	8.0	0.7	0.7	517	5.60
2	995.5	20.4	51	18	69	807	78.	0.9	1.6	726	70.20
3	996.5	19.5	58	17	75	877	41.	1.0	2.6	877	41.00
4	997.5	15.8	42	45	87	515	3.8	1.6	4.2	824	6.08
5	998.7	19.9	58	17	75	895	26.	0.7	4.9	627	18.20
6	999.5	11.8	40	42	82	366	1.2	0.5	5.4	183	0.60
7	1000.4	19.9	48	18	66	741	76.	0.7	6.1	519	53.20
8	1001.5	15.6	31	43	74	375	6.4	1.0	7.1	375	6.40
9	1002.3	20.1	54	17	71	842	43.	0.5	7.6	421	21.50
10	1004.3	18.4	53	20	73	757	8.6	0.8	8.4	606	6.88
11	1005.5	17.6	38	39	77	519	6.0	1.0	9.4	519	6.00
12	1007.5	15.0	39	42	81	454	3.5	1.0	10.4	454	3.50

OILFIELD RESEARCH LABORATORIES

RESULTS OF LABORATORY FLOODING TESTS

Company: **PHOENIX KANSAS ENERGY, LLC** Lease: **Alexander A** Well No. **PW-24**

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	994.5	17.0	57	752	8	106	49	49	646	0.40
2	995.5	20.2	51	799	7	110	44	53	689	9.73
3	996.5	19.5	58	877	15	227	43	55	650	4.46
4	997.5	15.8	42	515	0	0	42	53	515	0.27
5	998.7	19.7	58	886	10	153	48	48	733	1.27
6	999.5	11.8	40	366	0	0	40	43	366	Imp.
7	1000.4	20.2	48	752	12	188	36	62	564	9.33
8	1001.5	15.6	31	375	0	0	31	35	375	0.67
9	1002.3	20.3	54	850	12	189	42	56	661	9.48
10	1004.3	18.6	53	765	11	159	42	54	606	0.81
11	1005.5	17.6	38	519	0	0	38	39	519	Imp.
12	1007.5	14.9	39	451	0	0	39	43	451	Imp.

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