

March 24, 2000

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

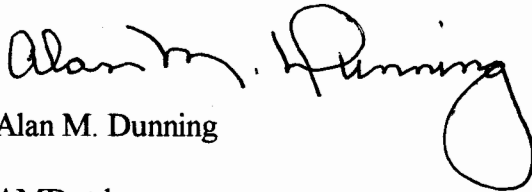
Gentlemen:

Attached hereto are the results of testing the rotary core taken from the Alexander A Lease. Well No. PW-23, located 2310' 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 March 3, 2000.

Your business is greatly appreciated.

OILFIELD RESEARCH LABORATORIES

A handwritten signature in black ink, appearing to read "Alan M. Dunning". The signature is fluid and cursive, with a large loop at the end of the last name.

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-23

Squirrel Sandstone

<u>Depth Interval, Feet</u>	<u>Description</u>
976.0 – 977.2	Shale, gray.
977.2 – 977.7	Shale, gray, with scattered limestone partings, and inclusions.
977.7 – 978.1	Limestone, gray, shaly, fossiliferous.
978.1 – 978.7	Shale, gray.
978.7 – 983.2	Sandstone, brown, with widely scattered shale and mica partings and inclusions.
983.2 – 983.7	Shale, gray, with scattered brown, sandstone streaks and inclusions.
983.7 – 985.0	Sandstone, grayish brown, shaly, with scattered shale and mica partings.
985.0 – 985.3	Sandstone and shale, brown and gray, laminated.
985.3 – 985.8	Sandstone, dark brown, slightly shaly, with scattered shale and mica partings.
985.8 – 986.4	Shale, gray.
986.4 – 988.0	Sandstone, dark grayish brown, very shaly, with scattered shale and mica partings.
988.0 – 988.6	Shale, gray, with widely scattered brown, sandstone inclusions.
988.6 – 989.3	Shale, gray.

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RESULTS OF SATURATION & PERMEABILITY TESTS

Company: **PHOENIX KANSAS ENERGY, LLC** Lease: **Alexander A** Well No. **PW-23**

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	979.5	22.4	42	20	62	730	143.	1.3	1.3	949	185.90
2	980.5	20.6	43	24	67	687	80.	1.0	2.3	687	80.00
3	981.5	19.6	41	28	69	623	46.	1.0	3.3	623	46.00
4	982.5	19.9	50	25	75	772	26.	1.2	4.5	772	26.00
5	984.3	17.9	38	37	75	528	4.5	1.3	5.8	686	5.85
6	985.5	19.3	46	20	66	689	7.8	0.5	6.3	345	3.90
7	986.6	14.9	49	44	93	566	0.38	0.6	6.9	640	0.23
8	987.5	18.3	41	24	65	582	1.5	1.0	7.9	582	1.50

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RESULTS OF LABORATORY FLOODING TESTS

Company: PHOENIX KANSAS ENERGY, LLC Lease: Alexander A Well No. PW-23

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	
1	979.5	22.1	42	720	2	34	40	57	13.62
2	980.5	20.8	43	694	2	32	41	55	5.73
3	981.5	19.2	41	611	0	0	41	57	8.66
4	982.5	20.3	50	787	5	79	45	53	1.47
5	984.3	17.9	38	528	0	0	38	39	Imp.
6	985.5	19.0	46	678	0	0	46	50	0.40
7	986.6	14.9	49	566	0	0	49	44	Imp.
8	987.5	18.1	41	576	0	0	41	25	Imp.

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