

December 8, 1999

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

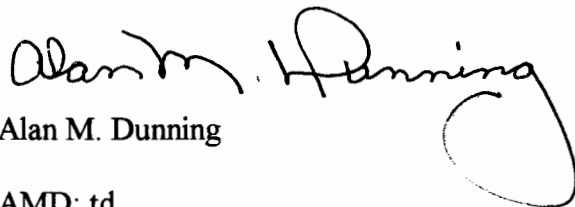
Gentlemen:

Attached hereto are the results of testing the rotary core taken from the Alexander "A" lease, Well No. PO-22, located 1980'NSL & 3630'WEL, Section 35, T23S, R16E, Woodson County, Kansas.

The core was sampled by a representative of the client and submitted to our laboratory on November 11, 1999.

Your business is greatly appreciated.

OILFIELD RESEARCH LABORATORIES

A handwritten signature in cursive script that reads "Alan M. Dunning". The signature is written in dark ink and is positioned above the printed 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. PO - 22

Squirrel Sandstone

<u>Depth Interval, Feet</u>	<u>Description</u>
979.0 - 979.6	Limestone, light gray, shaly.
979.6 - 980.5	Shale, gray, with scattered light brown, sandstone inclusions and streaks.
980.5 - 981.0	Sandstone, grayish brown, shaly, with scattered shale inclusions.
981.0 - 981.7	Sandstone, brown, with scattered shale and mica partings.
981.7 - 982.2	Sandstone and shale, brown and gray, laminated.
982.2 - 982.8	Sandstone, brown.
982.8 - 983.6	Sandstone, brown, with scattered shale and mica partings.
983.6 - 983.8	Shale, gray.
983.8 - 985.8	Sandstone, brown, with widely scattered shale and mica inclusions.
985.8 - 986.6	Sandstone, grayish brown, shaly, with scattered shale and mica partings.
986.6 - 987.4	Shale, gray, with scattered brown sandstone partings.
987.4 - 987.6	Sandstone, brown.
987.6 - 989.3	Shale, gray, with scattered brown sandstone partings and streaks.
989.3 - 989.6	Sandstone, brown, with scattered shale and mica partings.
989.6 - 993.0	Shale, gray, with widely scattered brown, sandstone partings.
993.0 - 996.4	Shale, gray.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company **Phoenix Kansas Energy, LLC** Lease **Alexander "A"** Well No. **PO-22**

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation		Oil Content Bbls/AF	Perm., md.	Feet of Sand		Total Oil Content	Perm. Capacity Ft X md
			Oil	Water			Total	Ft.		
1	980.6	17.9	44	29	73	3.50	0.5	0.5	306	1.75
2	981.3	20.8	52	18	70	118.00	0.7	1.2	587	82.60
3	982.5	21.4	51	17	68	119.00	0.6	1.8	508	71.40
4	983.5	20.6	44	27	71	20.00	0.8	2.6	562	16.00
5	984.5	17.5	51	18	69	42.00	1.0	3.6	692	42.00
6	985.5	18.8	51	18	69	33.00	1.0	4.6	744	33.00
7	986.5	14.5	51	37	88	2.40	0.8	5.4	459	1.92
8	989.5	17.2	44	30	74	12.00	0.3	5.7	176	3.60

Oilfield Research Laboratories

Results of Laboratory Flooding Tests

Company Phoenix Kansas Energy, LLC Lease Alexander "A" Well No. PO-22

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Effective Permeability Millidarcys*	Initial Fluid Production Pressur P.S.I.
			%	Barrels Ac./Ft.	%	Barrels Per Acre Ft.	% Oil	% Water	Barrels Per Ac./Ft.		
1	980.6	18.1	44	618	0	0	44	51	618	0.27	35
2	981.3	20.8	52	839	7	113	45	53	726	4.46	15
3	982.5	21.7	51	859	7	118	44	54	741	5.33	15
4	983.5	20.6	-	-	-	-	-	-	-	-	-
5	984.5	17.1	51	677	3	40	48	49	637	1.20	30
6	985.5	19.1	51	756	3	44	48	48	712	11.99	15
7	986.5	14.6	51	578	0	0	51	37	578	Imp.	-
8	989.5	17.2	-	-	-	-	-	-	-	-	-
NOTE: Samples four and eight - unobtainable											

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