

January 4, 2000

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

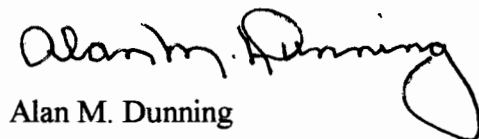
Gentlemen:

Attached hereto are the results of testing the rotary core taken from the Alexander "A" lease, Well No. PO-46, located 1320' NSL and 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 December 7, 1999.

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. PO-46

Squirrel Sandstone

<u>Depth Interval, Feet</u>	<u>Description</u>
990.0 – 990.4	Sandstone and shale, brown and gray, laminated.
990.4 – 991.7	Sandstone, brown, with scattered shale and mica partings.
991.7 – 992.2	Shale, gray, with widely scattered brown, sandstone partings.
992.2 – 992.7	Sandstone, brown, slightly shaly, with scattered shale and mica partings.
992.7 – 993.2	Shale, gray, with scattered light brown, sandstone partings.
993.2 – 993.7	Sandstone, grayish brown, shaly, with scattered shale and mica partings.
993.7 – 994.0	Shale, light grayish brown, sandy.
994.0 – 994.5	Sandstone, brown, with scattered shale and mica partings.
994.5 – 994.8	Shale, light grayish brown, sandy.
994.8 – 995.0	Sandstone, brown.
995.0 – 996.0	Sandstone, light grayish brown, very shaly, with scattered shale and mica partings.
996.0 – 997.3	Shale, gray, with scattered brown, sandstone partings.
997.3–1005.0	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-46

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.	Cum. Ft.		
1	990.5	22.7	44	21	65	156.	0.6	0.6	467	93.60
2	991.5	23.0	48	27	75	125.	0.7	1.3	603	87.50
3	992.5	17.3	40	40	80	6.6	0.5	1.8	265	3.30
4	993.5	17.7	37	46	83	3.7	0.5	2.3	252	1.85
5	994.4	17.0	45	31	76	11.	0.5	2.8	297	5.50
6	995.7	16.9	33	46	79	2.8	1.0	3.8	437	2.80

Oilfield Research Laboratories

Results of Laboratory Flooding Tests

Company **Phoenix Kansas Energy, LLC** Lease **Alexander "A"** Well No. **PO-46**

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	990.5	22.4	44	765	6	104	38	56	661	10
2	991.5	23.4	48	871	6	109	42	56	762	10
3	992.5	16.9	40	524	4	52	36	58	472	30
4	993.5	17.3	37	497	0	0	37	46	497	-
5	994.4	16.9	45	590	0	0	45	32	590	-
6	995.7	16.7	33	428	0	0	33	47	428	-

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