

Geological Report

Andrews B #22-1
330' FNL & 1850' FWL
Sec. 22 T22s R13w
Stafford County, Kansas



StrataKan Exploration, LLC.

General Data

Well Data: StrataKan Exploration, LLC.
Andrews B #22-1
330' FNL & 1850' FWL
Sec. 22 T22s R13w
Stafford County, Kansas
API # 15-185-23967-0000

Drilling Contractor: WW Drilling Co. Rig #8

Geologist: Jason T Alm

Spud Date: September 29, 2016

Completion Date: October 8, 2016

Elevation: 1890' Ground Level
1895' Kelly Bushing

Directions: St. John KS, North on Hwy 281 9 mi. East 3/8 mi.
South into location.

Casing: 681' 8 5/8" surface casing
3888' 5 1/2" production casing

Samples: 10' wet and dry, 2900' to RTD

Drilling Time: 2850' to RTD

Electric Logs: Pioneer Energy Services "Tim Martin"
CNL/CDL, DIL, MEL

Drillstem Tests: Three, Trilobite Testing "Leal Cason"

Problems: None

Remarks: After DST #3 background gas was too high to see
any formation gas from the Arbuckle. Packer Shoe
set @ 3888'.

Formation Tops

Formation	StrataKan Exploration Andrews B #22-1 Sec. 22 T22s R13w 330' FNL & 1850' FWL
Anhydrite	747' +1148
Base	773' +1126
Topeka	2951' -1056
Heebner	3252' -1357
Toronto	3271' -1376
Douglas	3286' -1391
Brown Lime	3383' -1488
Lansing	3403' -1508
BKC	3625' -1730
Viola	3691' -1796
Simpson	3748' -1853
Arbuckle	3807' -1912
LTD	4009' -2114
RTD	4010' -2115

Sample Zone Descriptions

LKC “I-zone” (3542’, -1647): Covered in DST #1
 Ls – Fine crystalline, oolitic with fair oolitic and scattered oomoldic porosity, light to fair scattered oil stain, slight show of free oil when broken, light odor, 46 units hotwire.

LKC “J-zone” (3556’, -1661): Covered in DST #1
 Ls – Fine crystalline, oolitic packstone with poor to fair oomoldic and oolitic porosity, light scattered oil stain in porosity, no show of free oil, light odor, 19 units hotwire.

LKC “K-zone” (3584’, -1689): Covered in DST #1
 Ls – Fine crystalline, oolitic packstone with fair to good oomoldic porosity, light to good oil stain with scattered good saturation, fair to good show of free oil, good odor, bright yellow fluorescents, 125 units hotwire.

- Viola** (3691', -1796): **Covered in DST #2**
Chert – Sharp, angular with fair to good scattered pinpoint vuggy porosity, light to good oil stain in porosity and scattered good saturation, slight show of free oil, good odor, dull yellow fluorescents, poor to fair cut, 31-72 units hotwire.
- Simpson Sand** (3770', -1875): **Covered in DST #3**
Ss – Quartz, clear to slightly frosted, fine to medium grained, sub-rounded to sub-angular, poor to fair cementation, fair to well sortedness with fair inter-granular porosity, light spotted to heavy oil stain in cluster with scattered heavy saturation, fair show of free oil in cluster, gas bubbles on break, fair to good spotted fluorescents, excellent cut, fair to good odor, 195 units hotwire.
- Arbuckle** (3807', -1912): **Not Tested**
Dolo – Fine to medium crystalline to rhombic crystalline with fair to good oomoldic, inter-crystalline and vuggy porosity, heavy oil stain and saturation, good show of free oil, good odor, free oil on sample cup.

Drill Stem Tests

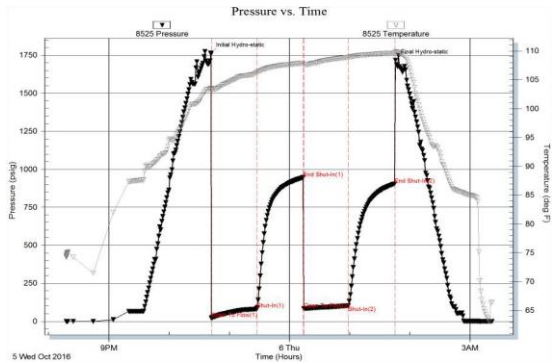
Trilobite Testing, Inc.
"Leal Cason"

DST #1 LKC I thru K zones

Interval (3540' – 3610') Anchor Length 70'

IHP	- 1763 #	
IFP	- 45" – Built to 4 in.	21-83 #
ISI	- 45" – Dead	947 #
FFP	- 45" – Built to 2 in.	83-102 #
FSI	- 45" – Dead	905 #
FHP	- 1717 #	
BHT	- 109°F	

Recovery: 180' Mud

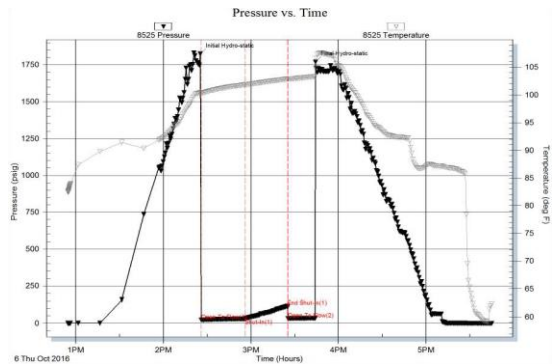


DST #2 Viola

Interval (3624' – 3740') Anchor Length 116'

IHP	- 1823 #	
IFP	- 30" – Died	22-31 #
ISI	- 30" – Dead	116 #
FFP	- 15" – Dead	33 #
FHP	- 1770 #	
BHT	- 104°F	

Recovery: 5' Mud

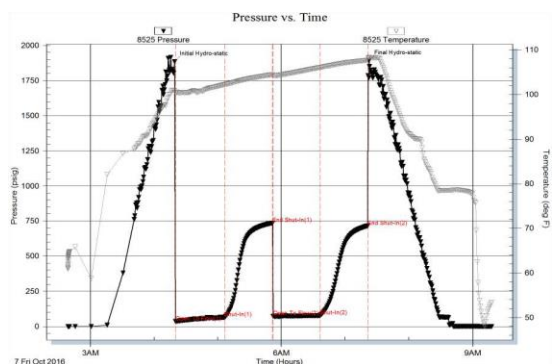


DST #3 Simpson

Interval (3740' – 3790') Anchor Length 50'

IHP	- 1884 #	
IFP	- 45" – Built to 3 1/2 in.	35-65 #
ISI	- 45" – Dead	735 #
FFP	- 45" – Built to 1 in.	72-77 #
FSI	- 45" – Dead	715 #
FHP	- 1891 #	
BHT	- 108°F	

Recovery: 120' GOWCM 10% Oil, 12% Water



Structural Comparison

	StrataKan Exploration Andrews B #22-1 Sec. 22 T22s R13w 330' FNL & 1850' FWL	L.K. Parrish J Wes Hahm Sec. 22 T22s R13w NE NE NW		StrataKan Exploration Andrews #22-1 Sec. 22 T22s R13w 950' FNL & 2050' FWL	
Formation					
Anhydrite	747' +1148	745' +1155	(-7)	751' +1144	(+4)
Base	773' +1126	NA	NA	774' +1121	(+5)
Topeka	2951' -1056	NA	NA	2950' -1055	(-1)
Heebner	3252' -1357	3254' -1354	(-3)	3254' -1359	(-1)
Toronto	3271' -1376	NA	NA	3272' -1377	(+1)
Douglas	3286' -1391	NA	NA	3286' -1391	FL
Brown Lime	3383' -1488	3384' -1484	(-4)	3382' -1487	(-1)
Lansing	3403' -1508	NA	NA	3403' -1508	FL
BKC	3625' -1730	NA	NA	3628' -1733	(+3)
Viola	3691' -1796	3699' -1799	(+3)	3704' -1793	(-3)
Simpson	3748' -1853	3750' -1850	(-3)	3748' -1853	FL
Arbuckle	3807' -1912	3808' -1908	(-4)	3804' -1909	(-3)

Summary

The location for the Andrews B #22-1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Simpson Formation. Once commercial production ceases the well could be converted into salt water disposal. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Andrews B #22-1 well.

Recommended Perforations

Primary:

Arbuckle 2nd Break	3828' – 3831'	Not Tested
Arbuckle	3809' – 3812'	Not Tested

Secondary:

Simpson Sand	3772' – 3778'	DST #3
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Before Abandonment:

LKC K	3584' – 3590'	DST #1
LKC I	3543' – 3547'	DST #1

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.