

Geological Report

Gaskill Range-Bertrand Unit #5-1

56' FSL & 2048' FWL

Sec. 5 T12s R33w

Logan County, Kansas



Gaskill Range-Bertrand Unit #5-1

General Data

Well Data: StrataKan Exploration, LLC.
Gaskill Range-Bertrand Unit #5-1
56' FSL & 2048' FWL
Sec. 5 T12s R33w
Logan County, Kansas
API # 15-109-21524-0000

Drilling Contractor: WW Drilling, Inc. Rig #2

Geologist: Jason T Alm

Spud Date: September 8, 2017

Completion Date: September 18, 2017

Elevation: 3167' Ground Level
3172' Kelly Bushing

Directions: Monument KS, South 5 mi on 350 Rd. East into location.

Casing: 260' 8 5/8" surface casing
4788' 5 1/2" production casing

Samples: 10' wet and dry, 3800' to RTD

Drilling Time: 3700' to RTD

Electric Logs: Pioneer Energy Services "J. Hendrickson

Drillstem Tests: Three, Trilobite Testing, Inc. "Bradley Walter"

Problems: None

Remarks: Deviation 1° @ 4350'. Pipe Strap 1.32 ft long to board @ 4350'.

Formation Tops

Formation	StrataKan Exploration, LLC. Gaskill Range-Bertrand Unit #5-1 Sec. 5 T12s R33w 56' FSL & 2048' FWL
Anhydrite	2656' +516
Base	2679' +493
Topeka	3848' -676
Heebner	4071' -899
Toronto	4096' -924
Lansing	4109' -937
BKC	4409' -1237
Marmaton	4445' -1273
Pawnee	4539' -1367
Fort Scott	4593' -1421
Cherokee	4622' -1450
Johnson	4666' -1494
Morrow	4716' -1554
Mississippian	4732' -1560
RTD	4790' -1618
LTD	4789' -1617

Sample Zone Descriptions

- LKC “I” zone** (4303’, -1131): **Covered in DST #1**
 Ls – Fine crystalline, oolitic with poor oolitic porosity, light to fair scattered oil stain in porosity, no show of free oil, no odor, dull yellow fluorescents, few visible gas bubbles, 20 units hotwire.
- LKC “J” zone** (4328’, -1156): **Covered in DST #1**
 Ls – Fine crystalline, oolitic with scattered poor oomoldic porosity, light brown oil stain in porosity, slight show of free oil when broken, dull yellow fluorescents, 19 units hotwire.
- Fort Scott** (4593’, -1421): **Covered in DST #2**
 Ls – Fine crystalline, oolitic packstone with poor to fair oolitic porosity, light to fair oil stain and saturation in porosity, slight show of free oil when broken, few gas bubbles on break, light to good yellow fluorescents, good cut, 72 units hotwire.
- Johnson** (4666’, -1494): **Covered in DST #3**
 Ls – Fine to sub-crystalline with poor scattered fair vuggy porosity, light to fair oil stain, few pieces with good saturation, show of free oil on cup, light odor, good yellow fluorescents, good cut, 110 units hotwire.

Drill Stem Tests

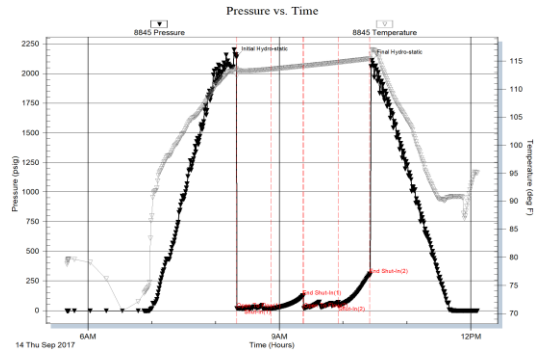
Trilobite Testing, Inc.
"Bradley Walter"

DST #1 LKC "I-J" zones

Interval (4290' – 4350') Anchor Length 60'

IHP	- 2142 #	
IFP	- 30" – Built to ½ in.	17-17 #
ISI	- 30" – Dead	125 #
FFP	- 30" – Dead	17-40 #
FSI	- 30" – Dead	308 #
FHP	- 2112 #	
BHT	- 117°F	

Recovery: 10' Mud

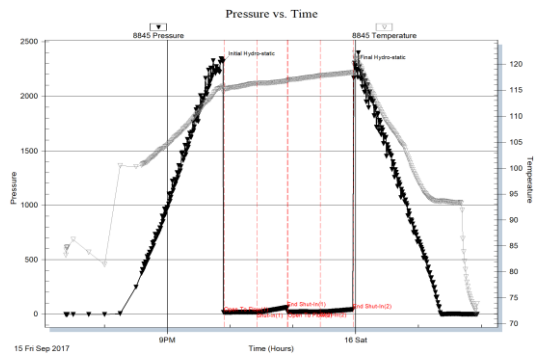


DST #2 Fort Scott / Myrick

Interval (4568' – 4625') Anchor Length 57'

IHP	- 30 #	
IFP	- 30" – Built to 1 in.	15-18 #
ISI	- 30" – Dead	61 #
FFP	- 30" – S. B.	19-23 #
FSI	- 60" – Dead	42 #
FHP	- 2281 #	
BHT	- 121°F	

Recovery: 15' OCM 10% Oil



DST #3 Johnson

Interval (4645' – 4700') Anchor Length 55'

IHP	- 2352 #	
IFP	- 30" – B.O.B. 3 min.	61-178 #
ISI	- 45" – B.O.B. 15 min.	1038 #
FFP	- 45" – B.O.B. on open	203-314 #
FSI	- 60" – B.O.B. 40 min.	1014 #
FHP	- 2295 #	
BHT	- 131°F	

Recovery: GTS during final flow
780' GCO 27° API
120' GOCM 25% Oil

