

Geological Report

Doll-Mabel #1-18
196' FSL & 1909' FEL
Sec. 18 T23s R23w
Hodgeman County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Doll-Mabel #1-18
196' FSL & 1909' FEL
Sec. 18 T23s R23w
Hodgeman County, Kansas
API # 15-083-21928-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm, Marc A Downing

Spud Date: September 1, 2016

Completion Date: September 8, 2016

Elevation: 2425' Ground Level
2433' Kelly Bushing

Directions: Jetmore KS, East 1 mile to SE 219 Rd. South 2 miles, West and South into location.

Casing: 218' 8 5/8" surface casing

Samples: 10' wet and dry, 4300' to RTD

Drilling Time: 3900' to RTD

Electric Logs: Pioneer Energy Services "Jared Long"
CNL/CDL, DIL, MEL

Drillstem Tests: Two, Trilobite Testing, Inc. "Ken Swinney"

Problems: None

Remarks: DST #2 was pulled early due to such strong blows.

Formation Tops

	American Warrior, Inc. Doll-Mabel #1-18 Sec. 18 T23s R23w 196' FSL & 1909' FEL
Formation	
Anhydrite	1618', +815
Base	1647', +790
Heebner	4022', -1589
Lansing	4074', -1642
BKC	4492', -2059
Marmaton	4505', -2072
Pawnee	4602', -2169
Fort Scott	4638', -2205
Cherokee	4665', -2232
Basil Cher Sand	4746', -2313
Mississippian	4783', -2350
LTD	4845', -2412
RTD	4846', -2413

Sample Zone Descriptions

Basil Cher Sand (4746', -2313): **Covered in DST #1,2**
 Ss – Quartz, clear, fine to coarse grained, poorly sorted, poor to fair cementation, sub-rounded with fair inter-granular porosity, light spotted oil stain in cluster, slight show of free oil when broken, fair odor, fair cut fluorescents, 40-21 units hotwire.

Drill Stem Tests

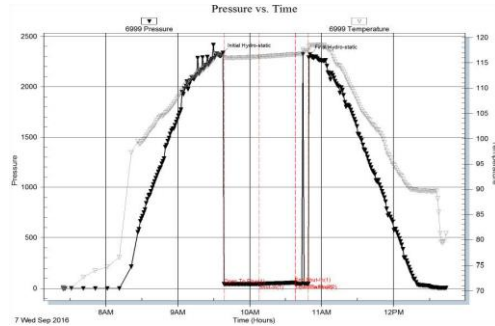
Trilobite Testing, Inc.
"Ken Swinney"

DST #1 Basil Cherokee Sand

Interval (4685' – 4746') Anchor Length 61'

IHP	- 2336 #	
IFP	- 30" – W.S.B.	42-43 #
ISI	- 30" – Dead	57 #
FFP	- 10" – Dead	44-46 #
FHP	- 2319 #	
BHT	- 118°F	

Recovery: 5' Mud

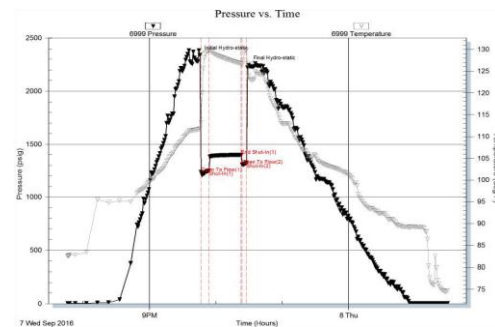


DST #2 Basil Cherokee Sand

Interval (4686' – 4767') Anchor Length 81'

IHP	- 2338 #	
IFP	- 5" – B.O.B. 30 sec.	1233-1250 #
ISI	- 30" – Dead	1399 #
FFP	- 5" – B.O.B. 30 sec.	1306-1324 #
FHP	- 2243 #	
BHT	- 129°F	

Recovery: 2418' Muddy Water 95% Water



Structural Comparison

	American Warrior, Inc. Doll-Mabel #1-18 Sec. 18 T23s R23w 196' FSL & 1909' FEL	American Warrior, Inc. Mabel #1-19 Sec. 19 T23s R23w 2459' FNL & 1756' FEL		Rains & Williamson Bailey #1 Sec. 20 T23s R23w C NW NW	
Formation					
Anhydrite	1618', +815	1624', +825	(-10)	1608', +821	(-6)
Base	1647', +790	1652', +797	(-7)	1630', +799	(-9)
Heebner	4022', -1589	4024', -1575	(-14)	4011', -1582	(-7)
Lansing	4074', -1642	4079', -1630	(-12)	4070', -1641	(-1)
BKC	4492', -2059	4488', -2039	(-20)	NA	NA
Marmaton	4505', -2072	4500', -2051	(-19)	4495', -2066	(-6)
Pawnee	4602', -2169	4599', -2150	(-19)	4588', -2159	(-10)
Fort Scott	4638', -2205	4634', -2185	(-20)	4632', -2203	(-2)
Cherokee	4665', -2232	4662', -2213	(-19)	4657', -2228	(-4)
Basil Cher Sand	4746', -2313	4717', -2268	(-45)	Not Encountered	NE
Mississippian	4783', -2350	4787', -2338	(-12)	4744', -2315	(-35)

Summary

The location for the Doll-Mabel #1-18 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted, both of which were negative. After all gathered data had been examined the decision was made to plug and abandon the Doll-Mabel #1-18 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.