

Geological Report

Bradford #1-30
752' FNL & 786' FEL
Sec. 30 T23s R23w
Hodgeman County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Bradford #1-30
752' FNL & 786' FEL
Sec. 30 T23s R23w
Hodgeman County, Kansas
API # 15-083-21932-0000

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

Geologist: Jason T Alm

Spud Date: February 17, 2017

Completion Date: February 25, 2017

Elevation: 2436' Ground Level
2444' Kelly Bushing

Directions: Jetmore KS, East 1 mile to SE 219 Rd. South 3 ½
miles, West into location.

Casing: 211' 8 5/8" surface casing
4232' 5 1/2" production casing

Samples: 10' wet and dry, 4250' to RTD

Drilling Time: 3850' to RTD

Electric Logs: Pioneer Energy Services "Justin Hendrickson"
CNL/CDL, DIL, MEL, BHCS

Drillstem Tests: One, Trilobite Testing, Inc. "Brannan Lonsdale"

Problems: None

Remarks: Bit Trip @ 4460'. H2S influenced hotwire on
upper Cherokee Sand.

Formation Tops

	American Warrior, Inc. Bradford #1-30 Sec. 30 T23s R23w 752' FNL & 786' FEL
Formation	
Anhydrite	1614' +834
Base	1638' +806
Heebner	4002' -1558
Lansing	4058' -1614
BKC	4466' -2022
Marmaton	4487' -2043
Pawnee	4584' -2140
Fort Scott	4624' -2180
Cherokee	4649' -2205
Basil Cher Sand	4716' -2272
Mississippian	4794' -2350
LTD	4878' -2434
RTD	4879' -2435

Sample Zone Descriptions

Basil Cher Sand (4717', -2268): **Covered in DST #1**
 Ss – Quartz, clear to slightly frosted, fine to coarse grained, poorly sorted, sub-rounded, fair cementation with poor to good inter-granular porosity, light to fair spotted oil stain, heavy stain in tight clusters, slight show of free oil when broken, sour H2S odor, 100-300 units hotwire (H2S influenced hotwire).

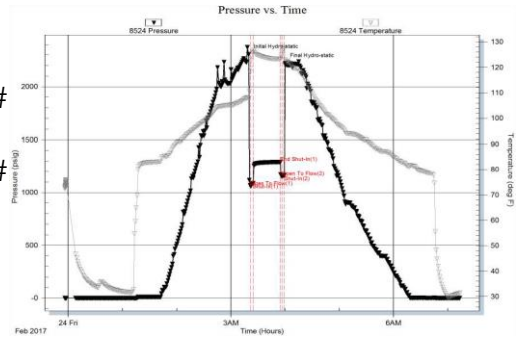
Drill Stem Tests

Trilobite Testing, Inc.
"Brannan Lonsdale"

DST #1 Basil Cherokee Sand

Interval (4646' – 4730') Anchor Length 84'

IHP – 2308 #		
IFP – 5" – B.O.B. 5 sec.		1060-1087 #
ISI – 30" – Dead		1290 #
FFP – 5" – B.O.B. 10 sec.		1153-1163 #
FHP – 2223 #		
BHT – 128°F		



Recovery: 476' GSWM 95% Mud
1396' GMW 95% Water

Structural Comparison

	American Warrior, Inc. Bradford #1-30 Sec. 30 T23s R23w 752' FNL & 786' FEL	American Warrior, Inc. Mabel #1-19 Sec. 19 T23s R23w 2459' FNL & 1756' FEL		Berexco, LLC. Katheryn #1-29 Sec. 29 T23s R23w 2280' FSL & 1000' FWL
Formation				
Anhydrite	1614' +834	1624', +825	(+9)	1575', +841 (-7)
Base	1638' +806	1652', +797	(+9)	1598', +818 (-12)
Heebner	4002' -1558	4024', -1575	(+17)	3664', -1548 (-10)
Lansing	4058' -1614	4079', -1630	(+16)	4021', -1605 (-9)
BKC	4466' -2022	4488', -2039	(+17)	4434', -2018 (-4)
Marmaton	4487' -2043	4500', -2051	(+8)	4451', -2035 (-8)
Pawnee	4584' -2140	4599', -2150	(+10)	4542', -2126 (-14)
Fort Scott	4624' -2180	4634', -2185	(+5)	4579', -2163 (-17)
Cherokee	4649' -2205	4662', -2213	(+8)	4604', -2188 (-17)
Basil Cher Sand	4716' -2272	4717', -2268	(+4)	4657', -2241 (-31)
Mississippian	4794' -2350	4787', -2338	(-12)	4745', -2329 (-21)

Summary

The location for the Bradford #1-30 was found via 3-D seismic survey. The new well ran slightly than expected via the survey. One Drill Stem Test was conducted which was negative. After all gathered data had been examined the decision was made to run 5 ½ inch casing to convert into SWDW.

Recommended Perforations

Disposal Perfs:

Plattsmouth

3921' – 3946'

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.