

Geological Report

Charvat #1-25
480' FNL & 1636' FEL
Sec. 25 T15s R11w
Russell County, Kansas



American Warrior, Inc.

General Data

Well Data: American Warrior, Inc.
Charvat #1-25
480' FNL & 1636' FEL
Sec. 25 T15s R11w
Russell County, Kansas
API # 15-167-24047-0000

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

Geologist: Jason T Alm

Spud Date: June 18, 2016

Completion Date: June 23, 2016

Elevation: 1775' Ground Level
1783' Kelly Bushing

Directions: Wilson KS, South on Hwy 232 7 miles to Stickney Rd, ¼ mile West, South into location.

Casing: 489' 8 5/8" surface casing
3384' 5 1/2" production casing

Samples: 10' wet and dry, 2550' to RTD

Drilling Time: 2500' to RTD

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

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

Problems: None

Remarks: None

Formation Tops

Formation	American Warrior, Inc. Charvat #1-25 Sec. 25 T15s R11w 480' FNL & 1636' FEL
Anhydrite	625', +1158
Base	652', +1131
Topeka	2575', -792
Heebner	2830', -1047
Toronto	2848', -1065
Douglas	2862', -1079
Brown Lime	2924', -1141
Lansing	2939', -1156
BKC	3206', -1423
Conglomerate Sand	3260', -1477
Arbuckle	3295', -1512
LTD	3385', -1602
RTD	3385', -1602

Sample Zone Descriptions

- Conglomerate Sand (3260', -1477):** **Covered in DST #1**
 Ss – Quartz, clear, fine grained, sub-rounded, well sorted, fairly cemented in part with fair to good inter-granular porosity, light to fair brown oil stain in cluster, slight show of free oil when broken, no odor, fair yellow fluorescents, good cut, 35 units hotwire.
- Arbuckle (3295', -1512):** **Not Tested**
 Dolo – Fine to medium rhombic crystalline, oolitic with good inter-crystalline and oomoldic porosity, light spotted oil stain, slight show of free oil when broken, good odor, dull to fair yellow fluorescents.

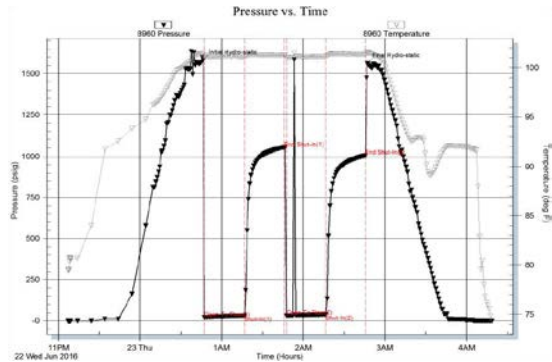
Drill Stem Tests

Trilobite Testing, Inc.
"Ken Swinney"

DST #1 Conglomerate Sand

Interval (3242' – 3280') Anchor Length 38'

IHP	– 1580 #	
IFP	– 30" – Built to 2 in.	19-30 #
ISI	– 30" – Dead	1052 #
FFP	– 30" – Built to 1 in.	31-38 #
FSI	– 30" – Dead	1005 #
FHP	– 1561 #	
BHT	– 101°F	



Recovery:	30' MCO	95% Oil
	30' OCM	20% Oil

Structural Comparison

	American Warrior, Inc. Charvat #1-25 Sec. 25 T15s R11w 480' FNL & 1636' FEL	Mai Oil Operations Charvat-Branda #1 Sec. 25 T15s R11w 170' FNL & 1930' FEL		Mai Oil Operations Charvat #2 Sec. 30 T15s R10w 2125' FNL & 1070' FWL	
Formation					
Anhydrite	625', +1158	623', +1166	(-8)	600', +1153	(+5)
Base	652', +1131	650', +1139	(-8)	629', +1124	(+7)
Topoka	2575', -792	2574', -785	7	2542', -789	(-3)
Heebner	2830', -1047	2832', -1043	(-4)	2796', -1043	(-4)
Toronto	2848', -1065	2850', -1061	(-4)	2814', -1061	(-4)
Douglas	2862', -1079	NA	NA	NA	NA
Brown Lime	2924', -1141	2924', -1135	(-6)	2890', -1137	(-4)
Lansing	2939', -1156	2939', -1150	(-6)	2905', -1152	(-4)
BKC	3206', -1423	3206', -1417	(-6)	3177', -1424	(+1)
Cong Sand	3260', -1477	3264', -1475	(-2)	NA	NA
Arbuckle	3295', -1512	3294', -1505	(-7)	3251', -1498	(-14)

Summary

The location for the Charvat #1-25 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Conglomerate Sand. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Charvat #1-25 well.

Recommended Perforations

Primary:

Arbuckle	(3295' – 3298')	Not Tested
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Secondary:

Conglomerate Sand	(3260' – 3264')	Not Tested
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Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.