

Geological Report

Turner #7

940' FNL & 990' FWL

Sec. 19 T9s R20w

Rooks County, Kansas



American Oil, LLC.

General Data

Well Data: American Oil, LLC.
Turner #7
940' FNL & 990' FWL
Sec. 19 T9s R20w
Rooks County, Kansas
API # 15-163-24364-0000

Drilling Contractor: Murfin Drilling Co. Inc. Rig #24

Geologist: Jason T Alm

Spud Date: May 28, 2018

Completion Date: June 3, 2018

Elevation: 2238' Ground Level
2243' Kelly Bushing

Directions: Palco, KS. West 2 mi. to county line. North $\frac{3}{4}$ mi.
East into location.

Casing: 218' 8 5/8" surface casing
3849' 5 1/2" production casing

Samples: 10' wet and dry, 3200' to RTD

Drilling Time: 3150' to RTD

Electric Logs: Gemini Wireline "Casey Patterson"
CNL/CDL, DIL

Drillstem Tests: None

Problems: None

Remarks: None

Formation Tops

	American Oil, LLC. Turner #7 Sec. 19 T9s R20w 940' FNL & 990' FWL
Formation	
Anhydrite	1756' +467
Base	1789' +454
Topeka	3244' -1001
Heebner	3452' -1209
Toronto	3474' -1231
Lansing	3490' -1247
BKC	3706' -1463
Arbuckle	3771' -1528
LTD	3850' -1607
RTD	3850' -1607

Sample Zone Descriptions

- LKC “A” zone (3490’ -1247): Not Tested**
 Ls – Fine crystalline, oolitic packstone in part with poor to scattered fair oolitic porosity, light to fair spotted oil stain in porosity, slight show of free oil when broken, no odor, fair yellow fluorescents.
- LKC “F” zone (3569’, -1326): Not Tested**
 Ls – Sl. Dolo – oolitic in part with fair oolitic porosity, vuggy porosity in part with good vuggy porosity, light to fair oil stain and saturation, fair show of free oil, strong slightly sour odor, dull to fair yellow fluorescents, chalky.
- LKC “J” zone (3656’ -1413): Not Tested**
 Ls – Fine crystalline, oolitic packstone in part with fair to good oolitic porosity, light to fair oil stain with light spotted saturation, fair show of free oil when broken, light odor, slightly fossiliferous, light spotted yellow-green fluorescents.
- Arbuckle Rework (3766’, -1523): Not Tested**
 Dolo – Fine to medium rhombic crystalline, sucrosic in part with fair to good inter-crystalline and vuggy porosity, light to good oil stain with scattered good saturation, fair show of free oil, good odor, light spotted yellow fluorescents, very heavily pyritic, slightly mottled with green shale.

Arbuckle

(3771' -1528): Not Tested

Dolo – Fine to medium rhombic crystalline, with fair to good inter-crystalline and vuggy porosity, light to good oil stain with scattered good saturation, fair show of free oil, good odor, light spotted yellow fluorescents.

Structural Comparison

Formation	Turner #7	Turner #4	Turner #5
	Sec. 19 T9s R20w 940' FNL & 990' FWL	Sec. 19 T9s R20w SE NW NW	Sec. 19 T9s R20w NW NE NW
Anhydrite	1756' +487	NA	1765' +496
Base	1789' +454	NA	NA
Topeka	3244' -1001	NA	NA
Heebner	3452' -1209	447' -1208	3466' -1205
Toronto	3474' -1231	NA	3487' -1226
Lansing	3490' -1247	3486' -1247	3506' -1245
BKC	3706' -1463	NA	3723' -1462
Arbuckle	3771' -1528	3764' -1525	3771' -1510

Summary

The location for the Turner #7 was found via sub-surface study. The new well ran structurally as expected via the survey. No Drill Stem Tests were conducted. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Turner #7 well.

Recommended Perforations

Primary:

Arbuckle 2 nd Break	3781' – 3784'	Not Tested
Arbuckle Rework	3767' – 3770'	Not Tested
Arbuckle 1 st Break	3771' – 3775'	Not Tested

Before Abandonment:

LKC J zone	3658' – 3662'	Not Tested
LKC F zone	3570' – 3575'	Not Tested

With Arbuckle. Shoot the rework section before the 1st break. If the rework section does not give up adequate volumes of fluid shoot the 1st break.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.