

# Redland Resources, Inc.

KCC

## GEOLOGICAL REPORT

WYATT 30-15

SECTION 30 - T23S - R24W

HODGEMAN COUNTY, KANSAS

KCC  
AUG 20 2010  
CONFIDENTIAL

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### INTRODUCTION

The above captioned well was drilled to a total depth of 5,351 feet on May 10, 2010. A one-man logging unit was on location from approximately 2,250 feet to TD. The well was under the geological supervision of the undersigned from approximately 4,600 feet to TD. At TD, Weatherford electric logs were run that consisted of Dual Induction, Compensated Neutron-Density, Micro-log, and Sonic log. From data collected while drilling and analyzing, potential hydrocarbon shows were encountered in the Chase/Council Grove, Mississippian Spergen/Warsaw Dolomites, Viola Dolomite and potentially Arbuckle Dolomite. A drill stem test was run on the Mississippian Spergen Dolomite for further evaluation. The decision was made to run casing to the Arbuckle and attempt completion in the above mentioned zones.

### CHASE (COUNCIL GROVE)

The top of the Chase Porosity was topped at 2,508 (-52) feet. Samples were described as light grey to grey, very fine to fine crystalline dolomite with good intercrystalline, pin-point and vugular porosity being observed. A dull yellow mineral fluorescence with a few gas bubbles being observed was documented. An 88-unit gas kick was recorded from the gas

chromatograph. Electric logs indicate a sixteen-foot zone of 19% porosity. We are still evaluating and obtaining data on this interval. It is productive in area wells, but we are still not sure of the zone's economic feasibility.

#### MISSISSIPPIAN

The Mississippian was tagged at 4,656 (-2200) feet. A total of 25 feet of "caprock" was cut before the Spergen Dolomite was encountered. A total of twelve feet of dolomite was cut and circulated up. Samples were described as buff cream tan brown, very fine to fine crystalline, sucrosic dolomite with pin-point and vugular porosity being observed. A 52-unit gas kick was recorded from the gas chromatograph, along with a dull yellow fluorescence, excellent streaming cut, abundant light brown live oil staining and excellent strong odor. A drill stem test was run to further evaluate the interval with results as follows:

DST#1 (4666 - 4696) 30 - 60 - 60 - 120

Recovery: 63' gas in pipe; 63' free oil (grav 37); 126' heavy oil cut gassy mud

Flowing pressures: 25-68/78-88

Shut-in pressures: 1139/1325

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Electric logs indicate a seven-foot zone of 9% porosity followed by a five-foot 28% porosity interval. This dolomite should produce good quantities of oil following an acid job.

The Mississippian Warsaw Porosity was cut at 4,704 (-2248) feet. Samples were described as very similar to the Spergen Dolomite with similar oil shows in the samples. The gas chromatograph recorded gas kicks of 41 and 51-units respectively. Electric logs indicate a total of eight to ten feet of pay on top of saltwater. Porosity through the interval is 27%. This interval should also have good amounts of oil.

## VIOLA DOLOMITE

The Viola was topped at 5,057 (-2601) feet. Samples were off-white tan to grey brown, very fine to fine crystalline dolomite with fair intercrystalline porosity interspersed with some pin-point porosity. A good yellow fluorescence, some brown staining, a slight residual cut and good odor was observed. The gas chromatograph recorded gas kicks of 60, 73 and 70-units through the upper portion of the Viola. Electric logs indicate a 21-foot zone of 19% porosity that as good resistivity with fair wallcake and positive micro-log. This zone should be perforated and tested.

## ARBUCKLE DOLOMITE

The Arbuckle was drilled at 5,240 (-2784) feet. Samples were described as tan brown, sucrosic dolomite with good intercrystalline and vugular porosity being observed. A bright yellow fluorescence was the only show that was observed. Electric logs indicate that the top ten feet had 15% porosity with good resistivity.

### ELECTRIC LOG TOPS

	REDLAND	RED OAK	ZINKE & TRUMBO
	WYATT	WYATT 1-30	BARBARA BAILY 1-31
	SE SW SW	NE SW SE	SW NW NE
	30-T23S-R24W	30-T23S-R24W	31-T23S-R24W
STONE CORRAL	1613	1614	1614
(subsea)	(+843)	(+842)	(+825)
CHASE	2490	2496	2500
(subsea)	(-0034)	(-0040)	(-0056)
BASE HEEBNER	3952	3960	3976

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(subsea)	(-1496)	(-1504)	(-1532)
STARK SHALE	4314	4328	4344
(subsea)	(-1858)	(-1882)	(-1900)
CHEROKEE SHALE	4552	4576	4584
(subsea)	(-2096)	(-2120)	(-2140)
MISSISSIPPIAN	4656	4690	4730
(subsea)	(-2200)	(-2234)	(-2296)
KINDERHOOK	4924	NDE	NDE
(subsea)	(-2468)		
VIOLA	5057	NDE	NDE
(subsea)	(-2601)		
ARBUCKLE	5240	NDE	NDE
(subsea)	(-2784)	(-3071)	

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#### CONCLUSION

The Wyatt 1-30 was drilled as an exploratory test for a 3-D seismic high located in the SE/4 of section 30 – T23S-R24W. The well encountered a nice structural high with shows in the Chase, Mississippian, Viola and Arbuckle. The decision was made to run casing and attempt completion in the above mentioned zones.

Respectfully submitted,



Mike Pollok

Petroleum Geologist

05/14/10