

GEOLOGICAL REPORT
BOCK 1-17
NE/4 SECTION 17-T29S-R8W
KINGMAN COUNTY, KANSAS

SUMMARY

The above noted well was drilled to a depth of 4,600 feet on November 8, 2017. A logging unit was on location at 1,200', with logging beginning at 3,150 feet. At T.D., Weatherford electric logs were run that consisted of Dual Induction, Compensated Neutron-Density, and Micro-log. Drill stem tests were run in the Mississippian aged chert that yielded negative results. From the data collected while drilling and analyzing, no economic accumulations of hydrocarbons were present, so the decision was made to plug and abandon the well.

Mississippian

The top of the Mississippian was cut at 4,189 (-2,526) feet. The samples were described as white and off white in color tripolitic, weathered, and fresh. Samples were hard with lesser amounts of brittle and a few pieces were friable. There was abundant yellow fluorescence, moderate brown staining, a strong oil odor with flash cuts. Electric logs indicated a zone of 39 feet with 30% porosity and cross-over in the micro-log. 3 drill stem tests were run with the results below.

DST #1: 4,133'-4,203' 30-60-60-120

I.F.: STONG BLOW, BOB 90" F.F.: STONG BLOW, BOB 30", GTS 60"

I.S.I.: BLOW BACK BUILT TO 6 INCHES F.S.I.: BLOW BACK BUILT TO 4 INCHES

I.F. – 69-65# F.F. – 204-159# I.S.I.P. -1,233# F.S.I.P. – 1,328#

I.H. – 2,075# F.H. – 2,012# B.H.T. – 129*F

REC. – 180' GASSY WATER CUT MUD (5% GAS, 20% WATER, & 75% MUD)

DST #2: 4,205'-4,244', 30-60-60-120

I.F.: STRONG BLOW, BOB 60" F.F.: FAIR BLOW, BOB 5"

I.S.I.: WEAK SURFACE BLOW BACK F.S.I.: WEAK SURFACE BLOW BACK

I.F. - 209-155# F.F. - 162-332# I.S.I.P. - 1,317# F.S.I.P. - 1,321#

I.H. - 2,081# F.H. - 2,014# B.H.T. - 127°F

REC. - 55' SLIGHT GAS CUT MUD (2% GAS, 98% MUD)

189' GASSY OILY MUD CUT WATER (5% GAS, 5% OIL, 60% WATER, 30% MUD)

441' WATER

DST #3: 4,243'-4,278', 30-60-60-120

I.F.: FAIR BLOW, BOB 16" F.F.: WEAK BLOW, BOB 32"

I.S.I.: NO BLOW BACK F.S.I.: NO BLOW BACK

I.F. - 37-44# F.F. - 46-87# I.S.I.P. - 1,355# F.S.I.P. - 1,360#

I.H. - 2,097# F.H. - 2,033# B.H.T. - 123°F

ELECTRIC LOG TOPS

	POLLOK ENERGY	LEBEN DRILLING	MESSENGER PETR.
	BOCK 1-17	BOCK 1	DEMME J #2
	W2 E2 NW NE	SW NE	W2 NW SE
	17-T29S-R8W	17-T29S-R8W	8-T29S-R8W
BS/HEEBNER	3,264'	3,274'	3,287'
(SUBSEA)	(-1,601')	(-1,603')	(-1,599')
T/LANSING	3,481'	3,502'	3,511'
(SUBSEA)	(-1,818')	(-1,831')	(-1,823')
BS/HUSHPUCKNEY	3,907'	3,906'	3,901'
(SUBSEA)	(-2,244')	(-2,235')	(-2,213')
T/CHEROKEE	4,104'	4,113'	4,098'
(SUBSEA)	(-2,441')	(-2,442')	(-2,410')
T/MISSISSIPPIAN	4,189'	4,198'	4,165'
(SUBSEA)	(-2,526')	(-2,527')	(-2,477')
T/VIOLA	4,482'	4,489'	NDE
(SUBSEA)	(-2,819')	(-2,818')	

T/SIMPSON
(SUBSEA)

4,531'
(-2,868')

4,538'
(-2,867')

NDE

Conclusion

The Bock 1-17 was drilled for potential hydrocarbons in the Hertha Limestone, Mississippian aged chert. After drilling and analyzing and the negative drill stem test results, the decision was made to plug and abandon the Bock 1-17.

Respectfully Submitted

Bill Busch