

W E L L   R E P O R T

AgOil, Inc.  
Hay Creek #2  
NW 1/4 Sec 6 - T. 11S - R. 15E  
Jefferson County, Oregon

Well Commenced 8/04/78                      Elevation: Ground 3120'  
Well Completed 6/13/79                      K.B.                      -----

SAMPLE DESCRIPTION

Surface - 510    No samples were caught

510 - 560        Mudstone, lt gy, salt & pepper, w/ some grs  
                  lt pink & tan, silt-size, w/ occas VF-F dk  
                  grs, 20% calc

560 - 590        Mudstone, tan-pale maroon, sl calc, w/ several  
                  scattered VF-F clear qtz grs, becoming pale to  
                  white @ base of unit

590 - 630        Mudstone, brick red-maroon, sl calc, w/ abund  
                  grs qtz, VF-VC, clear, several grs weathered  
                  volc, pale green-yellow, w/ silt-size black  
                  grs throughout

630 - 640        a.a. w/ incr pale grn-yellow weathered volc,  
                  soft

640 - 690        a.a. becoming sl cherty & harder, w/o grn-yellow  
                  volcanics

690 - 730        Mudstone, orange-brown-maroon, composed of  
                  weathered volc frags

730 - 760        a.a. w/ interbeds tan-white-pale grn weathered  
                  volc, bentonitic

760 - 780        Mudstone, med-dk grn, composed entirely of  
                  weathered volc, well weathered

780 - 830        a.a. becoming pale grn-white w/ some pink,  
                  bentonite incr toward base of unit

830 - 880        Claystone, pale grn-tan, w/ abund bentonite,  
                  composed of weathered volc, w/ VF-C qtz grs  
                  scatt throughout, v/ clayey

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880 - 900        Claystone, maroon & green, v/ clayey, bentonitic,  
                  composed of weathered volcanics, abund VF-C qtz  
                  grs scattered throughout

900 - 910        No Sample

910 - 920        a.a. mostly green

920 - 930        No Sample

930 - 970        a.a. mostly green, v/clayey

970 - 1100       a.a. green w/ some maroon, v/clayey

1100 - 1280      a.a. brick red w/ small amt green, v/clayey

1280 - 1320      a.a. w/ sl less clay

1320 - 1370      No Sample

1370 - 1400      Claystone, brn-maroon w/ blebs grn mostly mud  
                  fraction, w/ abund grs clear qtz VF-C, little clay

1400 - 1410      No Sample

1410 - 1450      Claystone a.a. w/ abund clay & bentonite

1450 - 1465      a.a. w/ less clays, w/ increase qtz grs, clear,  
                  VF-C, sub rnd-rnd

1465 - 1475      Volcanic tuff, grn, weathered

1475 - 1530      Claystone, brn-maroon w/ blebs grn, w/ abund  
                  qtz grs, clear, VF-C, sub rnd-rnd

1530 - 1570      Volcanic tuffs, med grn, partly weathered, w/  
                  occas biotite flakes, VF-F

1570 - 1620      Mudstone, maroon brown-ochre-dk gy, w/ abund  
                  qtz grs, clear, VF-C, sub ang-sub rnd

1620 - 1660      a.a. w/ some frags med grn volcanic tuffs a.a.,  
                  w/ incr qtz grs

1660 - 1680      Volcanics, med brn-lt gy, andesitic basalt, VF,  
                  w/ some red alteration & weathering patterns,  
                  some qtz grs in matrix

1680 - 1860      Volcanics, lt-med gy, andesitic basalt, VF-  
                  aphanitic, w/ few frags dk gy & some alteration  
                  (hydrothermal?) halos leaving white leached areas  
                  w/ dk gy centers. Alteration & bleaching becomes  
                  greater toward base of unit w/ more white, w/  
                  some botrioidal forms

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1860 - 1990      Volcanics, med gy a.a. w/ red-brn alteration

1990 - 2050      a.a. w/ less red. Some lt-med green volcanics,  
                  VF-aphanitic, w/ bleaching to white

2050 - 2065      a.a., mostly lt green, w/ abundant soft, pale  
                  green-tan bentonite

2065              TOTAL DEPTH

Note: Samples were caught as follows: 10' samples 510' to T.D.

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HOLE DEVIATION

No Hole Deviation measurements were taken from Surface to T.D.

DRILL STEM TESTS

No Drill Stem Tests were taken from Surface to T.D.

CORING

No Cores were taken during the drilling of this hole

ABT: *W. [unclear] [unclear]*

CONCLUSIONS

The above hole was drilled from surface to Total Depth without encountering any shows of oil or gas worth testing, although a very minor show of gas was recorded from 1780' to 1800'

The hole was spudded in rocks of the John Day Formation on the surface and continued to the base of this formation @ 1660'. The probable top of the Clarno Formation was @ 1660' and the hole remained in the upper portion of this formation to Total Depth @ 2065'

The Hay Creek #2 location appears to have tested the updip side of a pronounced N-NE fault which appears to be part of a series of similar faults all probably of Miocene age. The wellsite may or may not be located in the optimum location to accomplish a positive determination as to whether or not commercial hydrocarbons are accumulated along this fault. In any event, the hole was terminated at a depth too shallow to properly evaluate hydrocarbon accumulations at this location.

The drilling rig utilized for this operation was capable of drilling to a depth deeper than the 2065' actually reached. Unfortunately, driller error resulted in damage to the drill rig and the appropriate parts were not available within a reasonable time frame. Therefore the hole was terminated.

The above reported information was obtained during the drilling of the AgCil, Inc. #2 Hay Creek hole. This data is respectfully submitted to you.

Very truly yours,

*de B. K. Seeley Jr.*  
de Benneville K. Seeley, Jr.  
Consulting Geologist

July 5, 1979

RECEIVED-PTLD  
JUL 19 1979  
DEPT OF GEOLOGY

AGCIL, INC.  
Hay Creek #2  
NW 1/4 Sec. 6 - T.11S - R.15E  
Jefferson County, Oregon

GEOLOGIC WELL REPORT

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