Colt Energy, Inc.

Geological and Well Report

Draft: 5/5/15

Well: Palmer #A13-i

115 FSL, 80 FWL Section 13-T25S-R19E

Allen Co., KS

API #: 15-001-31345

Elevation: 1076 GL (surveyed)

Drilling Contractor: Andy King dba BAR Drilling LLC. (Op. Lic. #34953)

Spud: 5/01/2015

Surface Casing: 11.75" bore hole, 8 5/8" set at 20.2', cmtd w/ 8 sx of Portland

Under Surface: 5/03/15

Drilling fluid: water "native mud" Production bore hole: 6.75"

Rotary Total Depth (RTD): 921' (5/04/15)

Geophysical E-Log(s): CDL & IES by Osage Wireline (5/04/15)

Production Casing: 883' of 10.5#/ft., includes 4' cmt pup jt., cmtd w/ 110 sx, (5/04/15)

Production Casing: Ran in hole by: BAR Drilling

Formation/Member	DL/Sample Tops	Log Tops (Rdd off)	Datum (1076)
Stark Sh	2000	203	873
Hushpuckney Sh		228	848
Base Ks City	ATTENNO.	248	828
"Old Drillers Log" B. KC		261	815
"Knobtown" Ss	HAWK?	273	803
South Mound Sh		438	638
"Upper" "Weiser" Ss		489	587
"Lower" "Weiser" Ss	HHRM/	517	559
Myrick Station Ls	****	576	500
Anna (Lexington Coal Zone) Sh	HERE:	582	494
Ft. Scott ("Oswego") Ls		618	458
Little Osage (Summit Coal Zone) Sh		638	438
Excello (Mulky Coal Zone) Sh	ERF#/	649	427
Squirrel Sand	www.	688	388
Bevier Coal Zone	718 (drlg time)	718	358
Verdigris (Ardmore) Ls	735	734	342
Croweburg ("V") Sh	737	737	339
Croweburg Coal	739	738	338
Fleming Coal	2010)		
Mineral Coal	766	767	309
Cattleman ("Upper") Ss	5555 .1		
Scammon Coal Zone	778	781	295
Cattleman ("Lower") Ss	782	783	294

Formation/Member	DL/Spl Tops	Log Tops (Rdd off)	Datum (1076)
Un-named Carb. Zone (Tebo)	818	818	258
Bartlesville Ss Zone	826	833	243
Bartlesville Ss	See Report		
Un-named Coal (Dry Wood?)	867	868	208
Un-named Coal (Rowe/Neutral?)	881	884	192
"Lower" Bartlesville Ss	Not drlg	market 6	
Rotary Total Depth	821	====(255
Open Hole Log(s) TD	12222	921	255

The following report is based on microscopic examination of rotary drill cuttings collected on location while drilling, a core taken from the "Lower" Cattleman Sand Zone, and the results of a suite of open hole logs; depths have been corrected to the open hole log measurements unless noted.

Note: No drill cuttings were collected, "bagged", and microscopically examined prior to 760'.

Major Zones of Interest:

Anna Shale (Lexington Coal Zone), 582-584+. No indications to the presence of coal.

Little Osage Shale (Summit Coal Zone), 638-641. As above

Excello Shale (Mulky Coal Zone), 649-653+. Log shows black shale from 649 to 651.5+/- and about a foot of coal below the black shale that has a bulk density of 2.05

Squirrel Sand Zone:

Log shows a very silty, slightly shaley, "broken", sand from 688-712, the induction log indicates the sand to be "watery", not enough "clean" sand to make a water supply well.

Bevier Coal, 718-719.5+/-. Log shows a "clean" coal with a bulk density of 1.93

<u>Croweburg Coal, 739-739+.</u> Coal, 20%+/- were "floaters", fairly pyritic, abundant black shale from the "V" shale in sample bag, no visible shows of free gas, coal is close to a foot thick and has a bulk density of 2.04

Mineral Coal Zone, 767-768.5+/-. Coal, 30-40% of coal in sample were "floaters", no secondary fracturing, pyritic, trace black shale in sample, no apparent shows of free gas, coal is a little under 2 feet thick and has a bulk density of 1.77.

<u>Scammon Coal Zone. 781-783+/-</u>, Shale, very dark grays to black, scattered macro and micro carbonaceous fragments, trace conglomeritic material, no shows of gas.

Palmer #A13-i

Major Zones of interest continued:

"Lower" Cattleman Sand, 783-784 (782-783+/- Driller depths). Silt/sandstone, pale green, silt size to fine grain, moderately sorted, well to very well consolidated, semi-firm to firm, poor with trace fair porosity, abundant micro pale green shale platelets (gives the pale green color to the sand), scattered tan, silt/sandstone lamina with very weak to weak speckled to spotty shows of free oil, exhibits very-very dull fluorescence, sample had fair oily odor.

<u>Note:</u> Cored the "Lower" Cattleman Sand from 783-803 (Driller's depths or apx. 784-804+/-e-log depths, please see the Core Report.

<u>Un-named Carbonaceous Zone (Tebo?), 818-828.</u> Shale, black, very dark grays, trace light green-gray, 6"+/- layer of coal at 819, no visible shows of gas, coal has a peak bulk density of 2.16.

Bartlesville Sand Zone:

<u>833-839.</u> Shale, light to very light green-grays and gray-greens, silty, sandy with depth, scattered light tan to tan, silt/sandstone lamina with hydrocarbon staining, no shows of free oil or gas.

<u>839-857+/-.</u> Shale, pale greens, light gray-greens, silty to sandy, abundant lamina and thin lens of tan to light brown, silt size to fine grain, angular to very angular, moderately sorted, well consolidated, friable to semi-firm, very poor to fair, trace good porosity, silt/sandstone. Samples had good to very good oily odor, very-very dull fluorescence, good to very good shows of free oil, no visible shows of gas.

<u>857-862+/-.</u> Silt/sandstone as above, but is dark tans and browns, very dull fluorescence, strong oily odor, good to very good shows of free oil, few scattered gas bubbles.

862-864+/-. Shale, gray, gray-green, silty to slightly sandy, no shows.

<u>864-868.</u> Sandstone, browns, gray-browns (color varied due to oil content), silt size to medium grain, trace coarse grain, sub-angular to very angular, poor to very poorly sorted, poor to well consolidated, loose grains to semi-firm clusters, mostly poor porosity, little shaley, trace – what looked to be conglomeratic material, sample had fair to good odor, no to very-very dull questionable fluorescence, weak to fair shows of very-very dark brown to black free oil, weak to fair shows of "tarry" to "dead oil" hydrocarbon residue, no shows of gas.

<u>Un-named Coal (Dry Wood?), 868-869.</u> Coal, 10-20% were "floaters", fairly pyritic, no secondary fracturing, no shows of free gas, coal is about 6 inches +/- and has a bulk density of 2.29.

Palmer #A13-i

Major Zones of Interest continued:

<u>Un-named Carbonaceous (Rowe or one of the Neutrals?) Zone, 885-886 (probably where the Rowe or one of the Neutrals would be found).</u> Not very apparent on log, but sample contained black shale and coal fragments, less than 5% were floaters, both were pyritic, no shows of gas were observed, bulk density is around 2.50, noted for the record only.

Summary:

Due to the shows of oil found in/and well developed "Lower" Cattleman Sand, the decision was made to make the subject test into a water input well,

End Report

Rex R. Ashlock

For: Colt Energy, Inc.