

# GEOLOGICAL REPORT

Well Name: FUTURE ACQUISITION COMPANY LLC TITOS 1

Location: SEC 21-T33S-R5E COWLEY CO., KANSAS

API: 15-035-24544

325-345 LS:LT GY-TN CRM-GY W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

345-425 SH:RD-BRN RD W/SM BRN, SLTY TO V/SLTY, TR GY, SFT

425-475 SH:RD-BRN RD W/SM BRN, SLTY TO V/SLTY, TR GYP, SFT

475-525SH:RD-BRN RD W/SM BRN, SLTY TO V/SLTY, TR GYP, SFT

525-575 SH:RD-BRN RD W/SM BRN, SLTY TO V/SLTY, TR GYP, SFT

575-619 LS:CRM-GY LT GY-TN W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB

ADMIRE SS MD 619' (+642' SS)

619-695 SS:OFF WHT CRM-WHT & LT GY, VF FG, SUB ANG SUB RND, MOD SORT, SL CALC, PR VIS POR, NO FLUOR, NO CUT, SUB FRI, TR GAS BUBBLES

695-700 LS:CRM-GY LT GY-TN W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

700-790 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

790-800 LS:LT GY-TN CRM-GY W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

800-848 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

848-856 LS:CRM-GY LT GY-TN W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

856-912 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SF

912-970 LS:LT GY-TN CRM-GY W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

970-1050 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

1050-1070 LS:LT GY-TN CRM-GY W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

1070-1100 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

1100-1134 SS:CRM-WHT CRM-GY & LT GY, VF FG, SUB ANG SUB RND, MOD SORT, SL CALC, PR VIS POR, NO FLUOR, NO CUT, SUB FRI

1134-1230 SH: RD-BRN RD W/SM LT MED GY, SLTY TO V/SLTY, SM SDY, TR GYP, SM CARB SPKD, FNLY MICA, SUB BLKY TO SUB SPLTY, FRM TO SFT

1230-1258 LS:CRM-GY LT GY-TN W/SM CRM, VF F XLN, SM MTTLD, ARG IP, SL SDY TO SDY, DNS TO SUB DNS, FRM

1258-1288 SH: RD-BRN RD W/SM LT MED GY, SLTY TO V/SLTY, SM SDY, TR GYP, SM CARB SPKD, FNLY MICA, SUB BLKY TO SUB SPLTY, FRM TO SFT CG 96u

1288-1322 LS:CRM CRM-WHT &CRM-GY W/SM GY-TN, VF MI CXLN, MTTLD, ARG IP, SM SDY, DNS TO SUB DNS, FRM

1322-1336 SH: RD-BRN RD W/SM LT MED GY, SLTY TO V/SLTY, SM SDY, TR GYP, SM CARB SPKD, FNLY MICA, SUB BLKY TO SUB SPLTY, FRM TO SFT

1336-1358 LS:CRM CRM-WHT &CRM-GY W/SM GY-TN, VF MI CXLN, MTTLD, ARG IP, SM SDY, DNS TO SUB DNS, FRM

1358-1370 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

1370-1392 LS:CRM CRM-WHT &CRM-GY W/SM GY-TN, VF MI CXLN, MTTLD, ARG IP, SM SDY, DNS TO SUB DNS, FRM

1392-1418 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

1418-1456 SS: CRM-WHT CRM-GY & LT GY, VF FG, SUB ANG SUB RND, MOD SORT, SL CALC, PR VIS POR, NO FLUOR, NO CUT, SUB FRI

1456-1476 SH: RD-BRN RD W/SM LT MED GY, SLTY TO V/SLTY, SM SDY, TR GYP, SM CARB SPKD, FNLY MICA, SUB BLKY TO SUB SPLTY, FRM TO SFT

1476-1492 SS: CRM-WHT CRM-GY & LT GY, VF FG, SUB ANG SUB RND, MOD SORT, SL CALC, PR VIS POR, NO FLUOR, NO CUT, SUB FRI

1492-1502 SH: RD-BRN RD W/SM LT MED GY, SLTY TO V/SLTY, SM SDY, TR GYP, SM CARB SPKD, FNLY MICA, SUB BLKY TO SUB SPLTY, FRM TO SFT

1502-1538 SS:CRM-WHT CRM-GY & LT GY, VF FG, SUB ANG SUB RND, MOD SORT, SL CALC, PR VIS POR, NO FLUOR, NO CUT, SUB FRI

1538-1564 SH: LT MED GY W/SM RD-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

1564-1585 SS:CRM-WHT CRM-GY & LT GY, VF FG, SUB ANG SUB RND, MOD SORT, SL CALC, PR VIS POR, NO FLUOR, NO CUT, SUB FRI

1585-1606 SH: LT MED GY W/SM LT GY-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT 1606-1612 LS:LT GY-TN CRM-GY W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

1606-1612 LS:LT GY-TN CRM-GY W/SM CRM,F F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

1612-1698 SH: LT MED GY W/SM LT GY-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

1698-1724 LS:LT GY-TN CRM-GY W/SM CRM,F F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

1724-1792 SH: LT MED GY W/SM LT GY-BRN, SL TO V/SLTY, SM SDY, TR CARB SPKD, V/FNLY MICA, SUB SPLTY SUB BLKY, FRM TO SFT

1792-1798 LS: OFF WH-LT GY, LT BRN IP, OP, GST, MICROXLN, SUC IP

1798-1924 SH: GY-LT GY, DRK GY IP, DLL-SLTY, MOD IND- W IND, BLKY-SBBLKY, MICMICA

IATAN LIME MD 1924' (-663' SS)

1924-1932 LS: OFF WH-LT GY, LT BRN IP, OP, GST, MICROXLN, SUC IP

1932-1958 SH: GY-LT GY, DRK GY IP, DLL-SLTY, MOD IND- W IND, BLKY-SBBLKY, MICMICA

STALNAKER MD 1958' (-697' SS)

1958-2000 SS: OFF WH- LT GY, OP, VF-F, W SRTD, SB ANG-SBRNDD, MODW CMTD, SL CALC, PR VIS POR, NO FLUOR NO CUT

2000-2044 SH: GY-LT GY, DRK GY IP, DLL-SLTY, MOD IND, BLKY-SBBLKY, MICMICA, CALC

2044-2050 LS: LT GY BRN-GY, BUFF GY IP, VF-MICRO XLN, OP, MDST, MICROSUC-SL CHLKY, FRM-MOD HRD, NO CUT

2050-2168 SH: GY-LT GY, DRK GY IP, DLL-SLTY, MOD IND, SB BBLKY- BLKY, MICMICA, CALC

2168-2194 LS: LT GY BRN-GY, BUFF GY IP, VF-MICRO XLN, OP, MDST, MICROSUC-SL CHLKY, PYR IP, FRM-MOD HRD, NO CUT

2194-2250 SH: DRK GY - GY, CARB IP, DLL-SLTY, P -MOD IND, SB BBLKY- BLKY, MICMICA, CALC, IMBD MICRO PYR IP

2250-2335 SH: GY-LT GY, DRK GY IP, DLL-SLTY, P IND, SB BBLKY- BLKY, MICMICA, IMBD MICRO PYR, PYR, CALC

2335-2398 SH: GY-LT GY, DRK GY IP, DLL-SLTY, P IND, SB BBLKY- BLKY, MICMICA, IMBD MICRO PYR, PYR, CALC

LAYTON SS MD 2397' (-1136' SS)

2398-2430 SS:LT GY- OFF WHT, SLTY- VF, MOD TO W SRTD, SUB ANG SUB RND, TR CARB SPKD, PR VIS POR, NO CUT, NO FLUOR, SUB FRI

2430-2340 SS:LT GY- OFF WHT, SLTY- VF, MOD TO W SRTD, SUB ANG SUB RND, TR CARB SPKD, PR VIS POR, NO CUT, NO FLUOR, SUB FRI

2340-2490 SS:LT GY- OFF WHT, SLTY- VF, MOD TO W SRTD, SUB ANG SUB RND, TR CARB SPKD, PR VIS POR, NO CUT, NO FLUOR, SUB FRI

2490-2542 SH: GY-LT GY, DRK GY IP, DLL-SLTY, P IND, SB BBLKY-BLKY, IMBD MICRO PYR, PYR, CALC

KANSAS CITY MD 2542' (-1281' SS)

2542-2562 LS: LT GY- OFF WH, OP, VF XLN, SUC, MOD HRD- FRM, V ARG, FOSS FRAGS, TR PYR, SL YELL FLUOR, NO VIS CUT

2562-2594 SH: DRK GY- V DRK GY, BLK IP, DLL, SLTY IP, CARB IP, SME IMBD, MICRO PYR, MICMICA

2594-2628 LS: OFF WH- CRM, OP, VF XLN, SUC, MOD HRD- FRM, SL ARG, FOSS FRAGS, SL YELL FLUOR, TR PYR

2628-2642 SH: DRK GY- V DRK GY, BLK IP, DLL, SLTY IP, CARB IP, SME IMBD MICRO PYR, MICMICA

2642-2650 LS: OFF WH- CRM, OP, VF XLN, UC, MOD HRD- FRM, SL ARG, FOSS FRAGS, TR IMBD MICRO PYR

2650-2670 SH: DRK GY- V DRK GY, BLK IP, DLL, SLTY IP, CARB IP, SME IMBD MICRO PYR, MICMICA

2670-2684 LS: OFF WH- CRM, OP, VF XLN, UC, MOD HRD- FRM, SL ARG, FOSS FRAGS, TR IMBD MICRO PYR

B/ KC MD 2684' (-1423' SS)

2684-2690 SH: DRK GY- V DRK GY, BLK IP, DLL, SLTY IP, CARB IP, SME IMBD MICRO PYR, MICMICA

CLEVELAND SS MD 2690' (-1429 SS)

2690-2710 SS:V LT GY CRM-GY, VF FG, SLTY & SHLY, SUB ANG, SL CALC, TR CARB SPKD, MICA, TITE, NO FLUOR, NO CUT, WC

2710-2763 SH: LT GY- GY GRN, CRS-SLTY, DLL, SL IND, MICMICA, PYR, GLAUC

MARMATON MD 2763' (-1502' SS)

2763-2848 LS: CRM-LT CRM, BUFF IP, OP, MICROXLN, SUC- MICRO SUC, PYR, ARG

2848-2860 SH: DK GY GY-BLK & BRN-BLK, SL SLTY TO SLTY, V/CARB IP, SL CALC, TR PYR, SUB SPLTY TO SUB BLKY, FRM TO SF

2760-2876 LS: CRM-LT CRM, BUFF IP, OP, MICROXLN, SUC- MICRO SUC, PYR, ARG

2876-2885 SH: DK GY GY-BLK & BRN-BLK, SL SLTY TO SLTY, V/CARB IP, SL CALC, TR PYR, SUB SPLTY TO SUB BLKY, FRM TO SF

CHEROKEE MD 2885' (-1624' SS)

2885-2900 SS:LT GY LT GY-TN & CRM-GY, VF FG, SLTY & SHLY, SUB ANG, SL CALC, TR CARB SPKD, V/FNLY MICA, TITE, NO FLUOR, NO CUT, WC

2900-2975 SH: GY-LT GY, SMTH-SLTY, SL- MOD IND, BLKY-SBBLKY, PYR, CALC, MICMICA

2975-3010LS:LT GY-TN CRM-GY W/SM CRM, VF F XLN, ARG IP, SM SDY, DNS TO SUB DNS, FRM

3010 -3050 SH: GY-LT GY, SMTH-SLTY, SL- MOD IND, BLKY-SBBLKY, PYR, CALC, MICMICA

3050-3100 SH: GY-LT GY, SMTH-SLTY, SL- MOD IND, BLKY-SBBLKY, PYR, CALC, MICMICA

3100-3150 SH: GY-LT GY, SMTH-SLTY, SL- MOD IND, BLKY-SBBLKY, PYR, CALC, MICMICA

MISS CHERT MD 3141' (-1880' SS)

3141-3160 CHT:CRM CRM-GY LT GY-TN, CONC FRAC, TRNSL, MOD HD, BRI

YEL-WHT FLUOR, FR CUT W/ GD RESID RNG

3160-3180 LS:GY-TNCRM-GY W/SM LT BRN & LT GY-BRN, VF MIC XLN, DOLIC IP, SMARG, TR CALC FILLED FRACS, TR INTRXLN POR, TR YEL-GLD MIN FLUOR, NO CUT, FRM TO MOD HD

COWLEY MD 3180' (-1919' SS)

3180-3250 LS:BRN LT BRN & LT GY-BRN W/SM GY-BRN, VF F XLN, SIL, SL TO V/ARG, DOLIC TO V/DOLIC, TR PYR, TR INTR XLN POR, TR DLL YEL GLD FLUOR, NO CUT, FRM TO MOD HD

3250-3300 LS:BRN LT BRN & LT GY-BRN W/SM GY-BRN, VF F XLN, SIL, SL TO V/ARG, DOLIC TO V/DOLIC, TR PYR, TR INTR XLN POR, TR DLL YEL GLD FLUOR, NO CUT, FRM TO MOD HD

3300-3350 LS:BRN LT BRN & LT GY-BRN W/SM GY-BRN, VF F XLN, SIL, SL TO V/ARG, DOLIC TO V/DOLIC, TR PYR, TR INTR XLN POR, TR DLL YEL GLD FLUOR, NO CUT, FRM TO MOD HD

3350-3415 LS:BRN LT BRN & LT GY-BRN W/SM GY-BRN, VF F XLN, SIL, SL TO V/ARG, DOLIC TO V/DOLIC, TR PYR, TR INTR XLN POR, TR DLL YEL GLD FLUOR, NO CUT, FRM TO MOD HD

3415-3457LS:GY-BRN BRN & DKBRNW/SM DK GY-BRN, VF F XLN, SIL, SL TO V/ARG, SL TO V/DOLIC, TR PYR, TR INTR XLN POR, TR DLL YEL GLD FLUOR, NO CUT, FRM TO MOD HD

3457-5225LS:CRM-GY LT GY-TN W/SM CRM-WHT & GY-TN, VF MI CXLN, SM MTTLD, TR FOSS, NO FLUOR, NO CUT, FRM TO MOD HD

3525-3540 LS:CRM-GY LT GY-TN W/SM CRM-WHT & GY-TN, VF MI CXLN, SM MTTLD, TR FOSS, NO FLUOR, NO CUT, FRM TO MOD HD

KINDERHOOK SH MD 3540 (-2279' SS)

WOODFORD MD 3550' (-2289' SS)

3550-3594SH: DK GY GY-BLK W/SM BRN-BLK, MOD CALC, CARB TO V/CARB, FNLY MICA, TR PYR, SPLTY TO SUB BLKY, FRM, TR CRM-GY GY-TN CHT

ARBUCKLE MD 3594' (-2333' SS)

3594-3650DOLO:CRM CRM-GY & LT GY-TN, VF F XLN, SL TO V/LMY, SUB SUC, TR PYR, PR INTR XLN POR, SCAT YEL MIN FLUOR, NO CUT, FRM TR SUB FRI

TD @ 3650' MD