

GEOLOGICAL REPORT

API: 15-035-24560

KID: 1044774948

Lease: Grey Goose

Well 1

Original operator: Future Acquisition Company LLC

Field: Copeland

Location: T35S R4E, Sec. 16

801' FNL & 1033' FEL

X: 2441303

Y: 128675

Longitude: -96.9887240

Latitude: 37.0102500

County: Cowley

Permit Date: Feb-20-2014

Spud Date: Mar-5-2014

Total Depth: 3870

Elevation: 1218 GL, 1228 KB

Tops from CBL:

Admire: 742 (486)

Toronto Lime: 1907 (-679)

Hoover: 1929 (-701)

Iatan: 2046 (-818)

Stalnaker: 2075 (-847)

Layton: 2532 (-1304)

Cleveland: 2824 (-1596)

Marmaton: 2925 (-1697)

Mississippian: 3326 (-2098)

Arbuckle: 3717 (-2489)

320-325 LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE CRINOID STM TR CHRT

325-360 SH: GY LT GY MED GY RD BRN BLKY FRM SLTY

360-450 LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE FOSS TR CHRT TR GLUAC

450-515 65% SH: GY LT GY MED GY RD BRN PURP LT GRN BLKY FRM SLTY; 35% LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE FOSS TR CHRT TR GLUAC

515-540 65% SH: GY LT GY MED GY RD BRN PURP LT GRN BLKY FRM SLTY; 20% LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE FOSS TR CHRT TR GLUAC; 15% SD: WHT CLR VF-FG CONS FRM HD SUBANG W SRTD

540-560 85% SH: GY LT GY MED GY RD BRN PURP LT GRN BLKY FRM SLTY; 15% LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE FOSS TR CHRT TR GLUAC

560-730 50% LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE FOSS TR CHRT TR GLUAC; 50% SH: GY LT GY MED GY BLKY FRM SLTY PYR

730-742 SH: GY LT GY MED GY BLKY FRM SLTY PYR

742-840 90% SH: GY LT GY MED GY BLKY FRM SLTY PYR; 5% LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE; 5% SD: GY LT GY VF-FG CONS FRM-FRI SUBANG W SRTD ASPH STN

850-924 90% SD: GY LT GY OCC FRST CLR VF-FG CONS FRM-FRI SUBANG W SRTD ASPH STN OCC UNCONS; SH: GY LT GY MED GY BLKY FRM SLTY PYR

924-980 90% SH: GY LT GY LT GRN RED BRN BLKY FRM SFT SLTY; 5% SD: GY LT GY VF-FG CONS FRM-FRI SUBANG W SRTD SLTY LIG LAM; 5% SLTSTN: GY LT GY BLKY FRI MICA LIG

980-1045 80% SD: GY LT GY OCC FRST CLR VF-FG CONS FRM-FRI SUBANG W SRTD ASPH STN OCC UNCONS; 10% SH: GY LT GY LT GRN RED BRN BLKY FRM SFT SLTY; 10% LS: TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE FOSS PYR

1045-1080 90% SH: GY LT GY MED GY BLKY FRM SLTY PYR; 5% LS: WHT LT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE; 5% SD: GY LT GY VF-FG CONS FRM-FRI SUBANG W SRTD ASPH STN

1080-1110 85% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE PYR; 15% SH: GY LT GY MED GY BLKY FRM SLTY PYR

1110-1140 80% SD: GY LT GY VF-FG CONS FRM-FRI SUBANG W SRTD SLTY LIG LAM; 15% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE PYR; 5% SH: GY LT GY MED GY BLKY FRM SLTY PYR

1140-1175 65% SH: GY LT GY MED GY BLKY FRM SLTY PYR; 20% SD: GY LT GY VF-FG CONS FRM-FRI SUBANG W SRTD SLTY LIG LAM; 15% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE PYR

1175-1200 65% SH: GY LT GY MED GY BLKY FRM SLTY PYR; 25% SLTSTN: GY LT GY BLKY FRI MICA LIG; 10% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE PYR

1200-1325 35% SD: WHT CLR FRST VF-FG CONS HD SUBANG W SRTD LIG LAM IP; 30 % SH: GY LT GY LT GRN RED BRN BLKY FRM SFT SLTY; 30% SLTSTN: GY LT GY BLKY FRI MICA LIG; 5% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE PYR

1325-1350 90% SH: GY LT GY LT GRN RED BRN BLKY FRM SFT SLT; 10% SLTSTN: GY LT GY BLKY FRI MICA LIG

1350-1410 65% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE PYR; 35% SH: GY LT GY LT GRN RED BRN BLKY FRM SFT SLT

1410-1460 55% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE PYR; 40% SH: GY LT GY LT GRN RED BRN BLKY FRM SFT SLT; 5% SD: WHT CLR FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD MOD SLTY R TR PYR NODS

1460-1560 25% SH: RED BRNSH GY LT GY MOD FRM OCC SFT SLTY FLKY BLKY; 70% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE; 5% SD: WHT CLR FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD MOD SLTY R TR PYR NODS

1560-1590 25% SH: RED BRNSH GY LT GY MOD FRM OCC SFT SLTY FLKY BLKY; 60% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE; 15% SD: WHT CLR FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD MOD SLTY R TR PYR NODS

1590-1615 45% SH: RED BRNSH GY LT GY MOD FRM OCC SFT SLTY FLKY BLKY; 20% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE; 35% SD: WHT CLR FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD MOD SLTY R TR PYR NODS

1615-1675 65% SH: GY LT GY LT GRN RED BRNISH BLKY FRM SFT SLTY; 10% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE; 25% SD: WHT CLR FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD MOD SLTY R TR PYR NODS

1675-1740 50% SH: GY LT GY LT GRN RED BRNISH BLKY FRM SFT SLTY; 10% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNSE; 40% SD: WHT CLR FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD MOD SLTY R TR PYR NODS

1740-1825 90% SH: GY LT GY LT GRN RED BRNISH BLKY FRM SFT SLTY; 5% SLTSTN: GY LT GY BLKY FRI MICA LIG; 5% SD: WHT CLR FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD MOD SLTY R TR PYR NODS

1825-1875 30% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 35% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 35% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNS

1875-1895 60% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 15% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 25% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNS

1895-1925 80% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 10% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 10% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNS

1925-1975 20% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 20% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 60% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNS

1975-2010 60% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 30% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 10% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNS

2010-2040 10% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 80% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 10% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNS

2040-2069 50% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 50% LS: WHT TN BUFF GY TRNSL HD MICXLN-XLN SME SUCR DNS

2069-2250 80% SD: LT GY WHT FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD SLTY TR LIG; 10% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC; 10% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA

2250-2260 60% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 40% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2260-2310 80% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 20% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2310-2370 90% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 10% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2370-2400 60% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 30% SD: WHT FRST VF-FG CONS HD SUBANG SUBRND MOD SRTD TR LIG GLAUC; 10% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2400-2420 75% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 15% SD: WHT FRST LT GY VF-FG CONS HD SUBANG SUBRND MOD SRTD; 10% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2420-2460 75% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 10% SD: WHT FRST LT GY VF-FG CONS HD SUBANG SUBRND MOD SRTD; 15% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2460-2480 65% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 20% SD: WHT FRST LT GY VF-FG CONS HD SUBANG SUBRND MOD SRTD; 15% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2480-2520 85% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 10% SD: WHT FRST LT GY VF-FG CONS HD SUBANG SUBRND MOD SRTD; 5% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2520-2700 10% SH: GY MED GY MOD FRM-FRM SLTY FLKY BLKY MICA; 75% SD: WHT FRST LT GY VF-FG CONS HD SUBANG SUBRND MOD SRTD; 15% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2700-2850 40% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC; 40% SH: GY MED GY LT GY MOD FRM-FRM SLTY FLKY BLKY MICA; 20% SD: WHT FRST LT GY VF-FG CONS HD SUBANG SUBRND MOD SRTD LIG GLAUC

2850-2870 50% LS: TN BRN TRNS HD XLN-SUCR DNSE FOSS GLAUC IP AREN IP; 30% SH: DK GY MED GY LT GY MOD FRM-FRM SLTY FLKY BLKY MICA; 20% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2870-2910 30% SH: DK GY MED GY LT GY MOD FRM-FRM SLTY FLKY BLKY MICA; 35% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 35% SLTSTN: GY LT GY BLKY FRI MICA LIG TR GLAUC

2910-2960 50% LS: WHT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE; 50% SH: DK GY MED GY LT GY MOD FRM-FRM SLTY FLKY BLKY MICA

2960-3060 50% LS: WHT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE; 40% SH: DK GY MED GY LT GY MOD FRM-FRM SLTY FLKY BLKY MICA; 10% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS

3060-3150 80% LS: WHT TN BUFF TRNSL HD MICXLN-XLN SME SUCR DNSE; 20% SH: DK GY MED GY LT GY MOD FRM-FRM SLTY FLKY BLKY MICA

3150-3320 80% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 20% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS

3320-3380 80% CHT: WHT CRM WHT AMOR V HD; 20% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY

3380-3450 70% LS: WHT TN CRM WHT BUFF TRNSL HD MICXLN-XLN MASS SME DNSE; 5% CHT: WHT CRM WHT AMOR V HD; 10% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY; 15% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY

3450-3690 90% LT BRN GY TN HD MICXLN-XLN SME SUCR DNSE TRS MIN FLU TR TRIPOLT BRN LT GY TN HD MICXLN-XLN SME SUCR DNSE TRS R TR MIN FLU; 10% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY

3690-3730 60% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 40% LS: LT BRN LT GY TN HD MICXLN-XLN SME SUCR DNSE TRS R TR MIN FLU

3730-3750 50% SD: WHT CLR FRST VF-FG MOD HD SUBANG SUBRND MOD SRTD MOD SLTY CONS; 40% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY; 10% LS: LT BRN LT GY TN HD MICXLN-XLN SME SUCR DNSE TRS

3750-3775 20% DOL: WHT CRM OCC LT BRN MICROXLN DNS MASS TR CHT R TR PYR NODS; 15% LS: LT BRN LT GY TN HD MICXLN-XLN SME SUCR DNSE TRS; 65% SH: GY LT GY OCC RED BRNISH MOD FRM SLTY FLKY BLKY

3775-3815 90% DOL: WHT CRM OCC LT BRN MICROXLN DNS MASS TR CHT R TR PYR NODS; 10% LS: LT BRN LT GY TN HD MICXLN-XLN SME SUCR DNSE TRS

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