

**BEREXCO, LLC.
MEARS A # 2-9
NESE SECTION 9 1S-37W
CHEYENNE COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

MEARS A # 2-9 SAMPLE DESCRIPTIONS
BEREDCO DRILLING RIG 10, DRILLING 7 7/8 HOLE

ANHYDRITE 3202(+48) S

3208(+46) L

BASE 4245(+9) S

3240(+14) L

MEARS A 1 to 9 SAMPLE DESCRIPTIONS

3500-3660 SHALE red,firm,very silty,argillaceous

3660-82 LIMESTONE h,firm,fossils, chalky,poor porosity,no shows

3682-3722 SHALE as above

3722-70 LIMESTONE white,slightly hard,very sandy,poor porosity,no shows with thin interbed SHALE
as above

MEARS A # 2-9 SAMPLE DESCRIPTIONS

FOAKER

3770-3800 LIMESTONE white,hard,dense,slightly chalky,sandy,poor porosity,no shows,abundant Chert orange

3800-20 LIMESTONE white,pale green,firm,very sandy,poor porosity,abundant Chert orange

3820-72 LIMESTONE gray,hard,very fossils, sandy in part,argillaceous,poor porosity,no shows with thin SHALE d gray,firm,silty

3872-3926 SHALE red,firm,silty,argillaceous with thin LIMESTONE buff,hard,slightly fossils,poor porosity, rare dead black stain

3926-44 LIMESTONE buff,hard,fossils,chalky in part,poor porosity,spotty dead black stain

3944-66 SHALE as above

3966-76 LIMESTONE buff,hard,fossils, dense,poor porosity,spotty black dead stain

3976-90 SHALE as above

TOPEKA

3990-4000 LIMESTONE buff,pale yell, very hard,dense,blocky,no shows

MEARS A # 2-9 SAMPLE DESCRIPTIONS

4000-42 SHALE red,soft,silty,very argillaceous with interbed LIMESTONE as above

4042-75 LIMESTONE white,buff,very fossils,chalky,granular,poor porosity,no shows, thin SHALE as above

4075-90 LIMESTONE pale gray,buff,very hard,dense,blocky,smth texture,no shows

4090-4122 SHALE as above

4122-32 LIMESTONE white,firm,oolitic, chalky in part,poor to fair intg and pinpoint vuggy porosity,spotty to even live brown stain,very good cut,fair odor,good show free oil

OREAD

4132-66 LIMESTONE buff,hard,blocky, dense,poor porosity,no shows

4166-4210 SHALE dark gray,red,green,firm, silty,sandy in part

LANSING A

4210-14 GRAINSTONE white, firm,oolitic,chalky in part,poor to fair intg and crystalline porosity,spotty live brown stain,good cut,good show free oil

4210-30 LIMESTONE buff,very hard,dense, blocky,some sandy in part,no shows

4230-35 SANDSTONE white,tan,firm,very fine grained, clay fled,poor porosity,no shows

MEARS A # 2-9 SAMPLE DESCRIPTIONS

4235-65 SHALE red,firm,silty

B ZONE

4263-70 LIMESTONE white,buff,hard,slightly fossils,poor vuggy porosity,spotty live black thick stain,good cut,good show free oil

4270-4295 LIMESTONE buff,very hard,dense, smth texture,very blocky,no shows with thin SHALE green,firm,fissile

4295-4318 SHALE green,firm,fissile,silty in part

C ZONE

4318-26 GRAINSTONE white, firm,very oolitic,fair to trace good intg porosity,spotty to even live brown stain, very good cut,good show free oil

4326-40 LIMESTONE buff,very hard,dense,blocky, smth texture,chalky in part,no shows

4340-60 SHALE green,gray,firm,fissile,waxy

D ZONE

4360-75 LIMESTONE pale gray,buff,very hard,dense,slightly fossils,chalky in part,poor porosity,no shows

4375-82 SHALE as above

MEARS A # 2-9 SAMPLE DESCRIPTIONS

4382-94 LIMESTONE buff,very hard,dense, blocky,trace poor pinpoint porosity,very spotty brns stain,poor cut

4394-4412 SHALE red,green,firm,silty,argillaceous

E ZONE

4412-20 GRAINSTONE white, firm,very fossils,fair intergranular porosity, spotty live brown stain,good cut,good show free oil

4420-26 LIMESTONE buff,hard,blocky,dense,no shows

4426-48 SHALE green,firm,fissile

4448-55 SANDSTONE white,green,friable,very fine grained, clay fled,poor porosity,no shows

F ZONE

4455-68 LIMESTONE buff,hard,blocky, dense,chalky in part,no shows

4468-76 SHALE red,green,firm,fissile, waxy

4476-88 LIMESTONE buff,slightly hard,oolitic,chalky in part,poor porosity,no shows

MEARS A # 2-9 SAMPLE DESCRIPTIONS

4488-4556 SHALE as above with thin LIMESTONE buff,pale gray,hard,dense,blocky,slightly argillaceous

4556-6884 LIMESTONE white,buff,hard, blocky,fossils,poor porosity,no shows

4584-4606 SHALE red,green,gray,firm,fissile,waxy with thin LIMESTONE as above

PAWNEE

4608-18 GRAINSTONE white, firm,very oolitic,fair intg porosity,spotty live brown stain,good cut,good show free oil

4618-25 LIMESTONE gray,very hard,dense, blocky,argillaceous,no shows

3625-40 SHALE green,gray,firm,fissile,waxy

4640-4700 LIMESTONE pale gray,gray,very hard,dense,blocky with thin SHALE green,dark gray,firm,fissile

4700-06 SANDSTONE white,friable,very fine grained,clay fled,calcareous,poor porosity,no shows

4706-16 SHALE as above

4716-26 LIMESTONE white,firm,chalky, sandy in part,poor porosity,no shows with thin SHALE as above

MEARS A # 2-9 SAMPLE DESCRIPTIONS

4726-38 LIMESTONE white, chalky, very sandy, no shows, some SANDSTONE white, pale green, very fine to coarse grained, psrtd, angular, calcareous cement, no shows

4738-44 LIMESTONE buff, very hard, dense, blocky, no shows, one piece with rare brown live stain, faint cut

4744-54 SANDSTONE pale green, translucent, some pinkish grains, hard, very fine to coarse grained, psrtd, siliceous cement, poor porosity, no shows with thin SHALE as above

RTD 4754'

LTD 4760'