

**BEREXCO, LLC.
SOLBACH NORTH # 4
SENENWNE 3114S-14W
RUSSELL COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

SOLBACH NORTH SAMPLE DESCRIPTIONS
BEREDCO RIG 10 DRILLING 7 7/8 HOLE

SOLBACH NORTH # 4 SAMPLE DESCRIPTIONS

ANHYDRITE 786(+1002) S
788(+1000) L

BASE 828(+960) S
828(+960) L

2500-60 SHALE gray,gray green,firm,blocky

2560-80 LIMESTONE buff,firm,very fossils, sandy,poor porosity,no shows

2580- 2680 SHALE as above with thin LIMESTONE as above

TOPEKA

2680- 2745 LIMESTONE buff,light brown,firm, chlky,abundant pyrite,poor porosity,no shows, abundant cavings

2745-2810 LIMESTONE buff,hard,dense,blocky. dense,no shows with thin SHALE gray,black,firm,slightly carbonaceous

2810-30 SHALE gray,gray black,hard,blocky with thin LIMESTONE as above

SOLBACH NORTH SAMPLE DESCRIPTIONS

2830-55 LIMESTONE buff, very hard,dense, abundant chalky,abundant Chert tan,white with SHALE as above

PLATTSMOUTH

2855-60 LIMESTONE buff,firm,fossils, chlky,poor to fair vuggy porosity,spotty brown live staining cut,nfo

2860-90 LIMESTONE buff, hard,dense,poor porosity,no shows

2890-2900 LIMESTONE as above trace LIMESTONE buff, firm,oolitic,fair intergranular porosity,even live brown stain,very good cut

HEEBNER

2900-20 SHALE gray,gray black,some red,slightly carbonaceous

TORONTO

2920-30 LIMESTONE white,firm,very chalky,poor porosity,spotty dead black stain,nfo

2930-40 LIMESTONE buff,very hard,dense, no shows

2940-60 SHALE red,gray,green,soft,very argillaceous

LANSING A

2960-28 LIMESTONE white,buff,very hard,dense,chalky in part,spotty black dead stain,nfo

SOLBACH NORTH SAMPLE DESCRIPTIONS

2928-34 SHALE as above

B ZONE

2984-88 LIMESTONE gray, buff, firm, fossils, poor to trace fair vuggy porosity, spotty live brown stain, good cut and odor, sfo

2988-95 LIMESTONE buff, very hard, dense, no shows

2995-3000 SHALE as above

C ZONE

3000-10 LIMESTONE white, firm, very chalky, poor porosity, no shows

3010-20 LIMESTONE buff, very hard, dense, blocky, no shows

3020-32 SHALE gray, firm, silty in part

E ZONE

3032-36 LIMESTONE buff, slightly hard, fossils, poor to trace fair vuggy porosity, spotty live stain and odor, good cut, good sfo

3036-40 LIMESTONE buff, very hard, dense

SOLBACH NORTH SAMPLE DESCRIPTIONS

F ZONE

3040-51 LIMESTONE white,firm,chalky, abundant Chert white,poor vuggy porosity,very spotty live brown stain,good cut,fair sfo

G ZONE

3051-60 LIMESTONE white,soft,oolitic,good intg and moldic porosity,very spotty live brown stain,good cut and odor,poor sfo

3060-75 LIMESTONE white,firm,very oolitic,fair to good moldic porosity,no shows

3075-3106LIMESTONE buff,pale gray,very hard,dense,blocky,no shows with thin SHALE gray black,gray,hard,blocky

H ZONE

3104-10 LIMESTONE buff,very hard,dense,blocky,very poor pinpoint vuggy porosity,very spotty live brown stain,fair cut

3110-16 LIMESTONE gray,very hard,dense,no shows

I ZONE

3116-23 LIMESTONE white,firm,very oolitic,fair intergranular porosity,spotty to even live brown stain,very good cut and odor,sfo

3123-30 LIMESTONE buff,very hard,dense,no shows

SOLBACH NORTH SAMPLE DESCRIPTIONS

3130-40 SHALE gray,gray black,hard, blocky,slightly carbonaceous

J ZONE

3140-54 LIMESTONE buff,slightly hard,oolitic slightly chalky, poor to trace fair intg porosity,very spotty live brown stain,fair cut,nfo with LIMESTONE very hard,dense as above

3154-62 LIMESTONE gray,very hard,very dense,no shows

3162-68 SHALE gray,gray black,green,firm,fissile

K ZONE

3168-78 LIMESTONE buff,hard,poor pinpoint vuggy porosity,very spotty live brown stain,good cut and odor,sfo

3178-86 LIMESTONE gray,very hard,very dense, with thin SHALE as above

3186-96 LIMESTONE buff,hard,oolitic, poor intg and moldic porosity,spotty brown live stain,good cut and odor,sfo with thin SHALE as above

ARBUCKLE

3196-3202 DOLOMITE white,firm,micxln,fair intxln porosity,even brown stain,very good cut and odor,good sfo with some very hard,dense

3202-08 DOLOMITE white,firm,micsuc texture,good to very good intx porosity,even brown stain,very

SOLBACH NORTH SAMPLE DESCRIPTIONS

good cut and odor,poor sfo

3208-16 DOLOMITE white,hard,blocky,dense,poor porosity,no shows

3216-26 DOLOMITE white,firm,micsuc texture,fair to good intxln porosity,even stain,good cut and odor, nsfo

3226-34 DOLOMITE as above hard,dense,no shows

3234-46 DOLOMITE white,firm,micsuc,good intxln porosity,rare spotty stain,poor cut,poss. cavings

3246-75 DOLOMITE white,very hard,dense,blocky, no shows

RTD 3275'

LTD 3276'