

MAR 1 2009

**BEREXCO, INC.
SEYB # 1-29
SWNENWNW SECTION 29 T29S-R42W
STANTON COUNTY, KANSAS**

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**GEOLOGIST
WILLIAM B. BYNOG**

FORMATION TOPS

FORMATION	DEPTH (LOGS)
STONE CORRAL	1563(+2001)
TOPEKA	3216(+348)
HEEBNER	3644(-80)
TORONTO	3678(-114)
LANSING A	3714(-150)
B ZONE	
C ZONE	
D ZONE	
E ZONE	3812(-248)
F ZONE	
G ZONE	
STARK	
H ZONE	
I ZONE	3910(-346)
J ZONE	
K ZONE	
L ZONE	
BKC	
MARMATON	4300(-736)
PAWNEE	4406(-842)
FORT SCOTT	4462(-898)
CHEROKEE	4496(-932)
ATOKA	4748(-1184)
MORROW SHALE	5100(-1536)
LOWER MORROW SAND	5364(-1800)
KEYES SAND	5444(-1880)
JOHNSON	
MISSISSIPPIAN	5500(-1936)

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SEYB DESCRIPTIONS

3

SAMPLE DESCRIPTIONS

SAMPLES LAGGED BY GEOLOGIST

BREDCO RIG 2 DRILLING 7 7/8 HOLE

3000-45 SHALE red, firm, argillaceous

3045-60 LIMESTONE cream, firm, fossils, poor porosity, no shows

3060-70 LIMESTONE gray, firm, fossils, dirty

3070-90 SHALE as above

3090-3150 LIMESTONE gray, cream, hard, micxln, slightly fossils

LIMESTONE cream, hard, dense

3150-60 LIMESTONE cream, pale gray, hard, dense

3160-80 SHALE red, firm, fissile, argillaceous, some silty

3180-3200 LIMESTONE cream, white, hard, micxln

3200-25 SHALE as above

3225-40 LIMESTONE cream, hard, dense to micxln, poor porosity

3240-60 LIMESTONE white, cream, firm, micxln, slightly chalky, poor intxln porosity, no

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SEYB DESCRIPTIONS

shows

VERY POOR SAMPLES AFTER DST#1, LEFT PACKER IN HOLE, ALL CAVING SHALE

3300-45 LIMESTONE white, cream, slightly hard, chlky, poor porosity, abundant caving SHALE as above

3345-55 SHALE as above

3355-3405 LIMESTONE gray, gray brown, hard, dense, abundant dark gray, fossils specs

3405-30 LIMESTONE white, cream, firm, chlky, poor porosity

3430-50 LIMESTONE cream, gray brown, hard, dense, abundant Chert cream, white

3450-70 shale rounded, firm, fissile, argillaceous

3470-90 LIMESTONE white, cream, hard, chlky, some Chert as above

3490-3510 SHALE as above

3510-50 LIMESTONE white, cream, hard, micxln to dense

3550-70 LIMESTONE white, cream, firm, chlky, micro crystalline

3570-3645 LIMESTONE as above abundant Chert white, pale gray

HEEBNER

3645-55 SHALE black, firm, fissile, carbonaceous

3655-60 LIMESTONE cream, gray brown, hard, dense

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3660-80 SHALE red,green,firm,fissile

3680-90 LIMESTONE cream,gray brown,hard,dense,abundant white chalky,poor porosity

3690-3700 LIMESTONE white,cream,firm, chalky,fossils,poor to fine intxln porosity,
no shows

3700-25 LIMESTONE cream,gray brown,very hard,dense/ interbd SHALE as above

LANSING A

3725-40 LIMESTONE white,cream,chalky,slightly fossils, poor porosity

3740-50 SHALE red,green,firm,fissile,argillaceous

B ZONE

3750-60 LIMESTONE gray brown,very hard,dense

3760-80 SHALE red,green,gray,firm

C ZONE

3780-90 LIMESTONE cream,hard,very finely micxln to dense

3790-3800 SHALE as above

3800-20 LIMESTONE and SHALE as above

E ZONE

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3820-40 LIMESTONE cream,firm,fossils,chalky,no shows

3840-50 SHALE as above

F ZONE

3850-60 LIMESTONE white,firm,very chlky

3860-70 SHALE as above

G ZONE

3870-90 LIMESTONE cream,hard,micxln / thin SHALE as above

3890-3900 LIMESTONE cream,firm,very oolitic,fine to gd moldic porosity,no shows

I ZONE

3900-50 LIMESTONE cream,firm,very fossils,chalky,fine to gd vuggy porosity,no shows

3950-75 SHALE as above

KANSAS CITY A

3975-4000 LIMESTONE gray brown,tan,hard,dense, chalky

4000-30 LIMESTONE cream,firm,granular texture,oolitic

4030-70 shale green,red,firm,fissile

4070-4120 LIMESTONE white,cream,firm,granular texture,very fossils,oolitic,no shows

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STARK SHALE

4120-30 SHALE black, red, firm, fissile, carbonaceous

4130-55 LIMESTONE white, cream, firm, chalky, very fossils, oolitic, no shows

4155-70 SHALE as above

HERTHA

4170-80 LIMESTONE cream, firm, chalky, fossils, poor porosity, no shows

4180-4200 LIMESTONE cream, pale gray, hard, chalky, micxln, fossils, poor porosity

4200-15 SHALE as above

4215-35 LIMESTONE white, cream, firm, fossils, chalky, micxln, poor to fine porosity, no shows

4235-50 LIMESTONE white, cream, hard, dense

4250-65 SHALE as above

4265-90 SANDSTONE pale green, very friable, vfgr, wsrtd, clay fled, chalky, poor to fine porosity, no shows

4290-4300 LIMESTONE pale gray, hard, dense

4300-10 SHALE gray, hard, argillaceous, limy

MARMATON

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4310-24 LIMESTONE cream,hard,dense,crpxln

4324-60 LIMESTONE cream,firm,very oolitic,oolcastic,gd moldic porosity,no shows

4360-75 LIMESTONE cream,very hard,dense

4375-90 SHALE gray,green,red,firm,fissile

4390-4400 LIMESTONE white,cream,hard,chalky,poor porosity

4400-10 SHALE as above

PAWNEE

4410-30 LIMESTONE cream,firm,very oolitic,good moldic porosity,no shows

4430-50 LIMESTONE cream,tan,hard,oolitic,slightly chalky,poor moldic porosity,no shows

4450-65 SHALE black,gray,green as above

FT. SCOTT

4465-95 LIMESTONE cream,tan,firm,very oolitic,oolcastic,slightly chalky,abundant
Chert tan,brown,good moldic porosity,no shows

CHEROKEE

4495-4510 SHALE dark gray,green,red,firm,slightly carbonaceous

4510-20 LIMESTONE cream,very hard,dense

4520-30 shale as above

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4530-50 LIMESTONE cream,hard,dense,crpxln

4550-80 SHALE gray black,green,red,firm,fissile, slightly carbonaceous

4580-4600 LIMESTONE cream,hard,chalky,micxln,poor porosity,some Chert tan

4600-30 LIMESTONE white,cream,firm,micxln,poor to fine intxln porosity,abundant free cgr ca,sandy texture

4630-70 SHALE blk,gray,firm,fissile,carbonaceous

4670-4710 LIMESTONE cream,firm,micxln,slightly chalky,poor porosity

4710-30 SHALE gray black,firm,carbonaceous

4730-65 LIMESTONE tan,hard,dense/ SHALE as above

ATOKA

4765-80 SHALE as above

4780-4810 LIMESTONE cream,tan,hard,chlky,poor porosity,no shows

4810-60 LIMESTONE cream,tan,hard,dense / SHALE as above

4860-90 LIMESTONE dark gray,very hard,dense,shaly

4890-4900 shale gray black,firm,fissile,carbonaceous

4900- 10 LIMESTONE dark gray,very hard,dense

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4910- 55 SHALE black, firm, fissile, carbonaceous

4955-5000 LIMESTONE tan, brown, very hard, dense/ interbedded SHALE as above

5000-50 LIMESTONE tan, gray brown, hard, slightly chalky, dense/ thin SHALE as above

5050-80 SHALE black, firm, fissile, carbonaceous/ thin LIMESTONE as above

5080-5100 LIMESTONE cream, tan, hard, slightly chalky, some pale green, silty/ SHALE gray black, black, firm, carbonaceous

5100-50 SHALE and LIMESTONE as above

5150-5250 SHALE pale gray, gray, dark gray, firm, very argillaceous/ very thin interbedded LIMESTONE tan, hard, dense

5250-80 SHALE gray, gray black, firm, fissile, carbonaceous, slightly pyritic

5280-5380 SHALE gray black, pyrite, some cgr, angular, free ca, abundant free pyrite

LOWER MORROW SAND

5380-90 SANDSTONE white, translucent, very hard, cgr, angular, poor sorted, calcareous cement, glauconitic, poor porosity, no shows

5390-5405 SANDSTONE white, translucent, very hard, fine grained, glauconitic, dense calcareous cement, no vis porosity, no shows

5405-30 SANDSTONE white, pale gray, slightly friable, fine grained, wsrtd, very glauconite, calcareous clay filled, poor vis porosity, no shows

5430-45 SHALE dark gray, firm, slightly carbonaceous

KEYES SAND

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5445-55 SANDSTONE gray,hard,fgr,glaucanite,dense calcareous cement,poor porosity,no shows

5444-5445

5455-65 SANDSTONE translucent,slightly friable to firm,m to cgr,angular to sang,msrtd,glaucanite, salt and pepper,calcareous,fine intergranular porosity,no shows

POOR SAMPLES DUE TO LOSS CIRCULATION

5465-85 SANDSTONE as above, no shows

5485-95 SANDSTONE pale green,firm,vfgr,silty, argillaceous,poor porosity,no shows

5495-5000 SHALE light gray,maroon,brown,firm,argillaceous

MISSISSIPPIAN

5500-30 LIMESTONE pale gray,white,hard,sandy, vfgr,poor porosity,no shows

ST. GENEVIEVE

5540-50 SANDSTONE white,firm,fgr,very chlky,poor porosity,no shows

5550-5620 LIMESTONE white,firm,very sandy,fgr,poor porosity,no shows

ST. LOUIS

5594- 5625 LIMESTONE white,firm, chalky, oolitic,poor porosity,no shows,abundant Chert tan,gray

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5625-30 LIMESTONE white,firm,very oolitic, chalky,poor to fine moldic porosity,no shows, abundant Chert as above

5630-80 LIMESTONE buff,hard to very hard,dense, slightly chalky,oolitic,abundant Chert amber,white,blue,orange,gray

5680-85 LIMESTONE whmfrm,oolitic, very chalky,chrty,poor porosity,no shows

5685-5740 LIMESTONE white,buff,very hard,dense, abundant Chert white,gray,tan

5740-80 LIMESTONE white,firm,very chalky,slightly oolitic,poor porosity,no shows

RTD 5780

LTD 5778

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