

**BEREXCO, LLC.
MEARS B # 1-9
NWSE SECTION 9 1S-37W
CHEYENNE COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: MEARS B # 1-9

LOCATION: NWSE SECTION 9 1S-37W

COUNTY: CHEYENNE

STATE: KANSAS

SPUD DATE: 2-25-2012 COMPLETION DATE: 3-9-2012

ELEVATIONS: GL: 3226' KB: 3237'

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG TECH TYPES: RAG, MICROLOG

WELLSITE ENGINEER: NONE

MUD COMPANY: MORGAN MUD

MUD TYPE & ENGINEER: FRESH CHEMICAL

GEOLOGIST: WILLIAM B.BYNOG

HOLE SIZE: 7 7/8

MUD LOGGING BY: NONE

DRILL STEM TEST COMPANY: TRILOBITE

DRILL STEM TEST: DST #1 4030-87, DST #2 4200-90, DST #3 4260-4370, DST #4 4358-4415, and DST #5 4560-4600

WELL STATUS: SET 4½ PRODUCTION CASING

Beredco Drilling, Rig 10 MEARS B 1-9 SAMPLES DESCRIPTIONS
drilling 7 /78 hole

ANHYDRITE 3155(+82) S 3186(+51) CORRECTED DEPTH
3184(+53) L

BASE 3186(+51) S 3217(+20) CORRECTED DEPTH
3220(+17) L

Mears B # 1 to 9 Sample Descriptions

3500-3610 SHALE red,very soft,very argillaceous,gummy

3610-30 LIMESTONE white,firm,chalky, sandy in part,poor porosity,no shows

3630-80 SHALE as above,becoming silty

3680-3710 LIMESTONE buff,very hard,fossils,dense, chalky in part,poor porosity,no shows

3710-20 SHALE as above

MEARS B 1-9 SAMPLES DESCRIPTIONS

FORAKER

3720-24 GRAINSTONE gray,slightly hard,very fossils,clean,poor to trace fair intg porosity,even live brown stain,very gd mlky cut,good show free oil

3724-60 LIMESTONE buff,pale gray,very hard,dense,no shows

3760-75 LIMESTONE white,soft,chalky,sandy in part,fossils,fair intg porosity,no shows

3775-3800 SHALE gray,red,soft,argillaceous

3800-10 LIMESTONE buff,hard,fossils,dense, poor porosity,no shows

3810-60 SHALE red,gray,soft,gummy with thin LIMESTONE as above

3860-90 LIMESTONE white,slightly hard,fossils, very chalky in part,poor porosity,spotty dead black stain,no live oil

3890-3900 SHALE as above

3900-20 LIMESTONE buff,hard,fossils,dense,poor porosity,no shows

3920-48 SHALE as above

TOPEKA

MEARS B 1-9 SAMPLES DESCRIPTIONS

3948-4000 LIMESTONE white, buff, very hard, dense, blocky, chalky in part, poor porosity, no shows

4000-20 SHALE as above becoming silty

4020-24 GRAINSTONE off white, firm, very oolitic, good intg porosity, trace very spotty dead black stain, no live oil

4424-44 LIMESTONE off white, hard, slightly oolitic, dense

4044-78 SHALE red, soft, very argillaceous, silty

OREAD

4078-84 LIMESTONE white, firm, slightly oolitic, chalky in part, poor micxn and fair vuggy porosity, spotty to even brown live stain, good mlky cut, good show free oil

4084 to LIMESTONE off white, very hard, dense, blocky, no shows

DEPTH CORRECTION, AFTER PIPE STRAP
CORRECTED DEPTH 4118'

OLD DEPTH 4087'

4118-58 LIMESTONE buff, pale gray, very hard, dense, blocky, no shows with thin SHALE as above

4158-90 SHALE red, green, as above some black, fissile, slightly carbonaceous

MEARS B 1-9 SAMPLES DESCRIPTIONS

LANSING A ZONE

4190-4216 LIMESTONE buff,very hard,dense,blocky,smth texture,chalky in part,very poor porosity,no shows

4216-48 SHALE rounded,very soft,gummy

B ZONE

4248-60 LIMESTONE white,buff,slightly hard,slightly oolitic,poor to fair vuggy porosity,spotty live brown stain,good cut,good show free oil

4260-4304 SHALE as above

C ZONE

4304-10 LIMESTONE white,firm,slightly chalky, fossils,poor to fair intg and vuggy porosity, spotty live brown stain,very good mlky cut,good show free oil

4310-30 LIMESTONE buff,pale gray,very hard,dense,blocky,no shows

4330-44 SHALE red,green,soft,argillaceous

D ZONE

4244-52 LIMESTONE buff,very hard,dense,no shows

MEARS B 1-9 SAMPLES DESCRIPTIONS

4352-60 LIMESTONE white,hard,oolitic, chalky in part,poor intg porosity,spotty live brown stain,good cut,no free oil

4360-70 SHALE as above with very thin LIMESTONE as above becoming chalky

4370-92 SHALE red,very soft,very argillaceous

E ZONE

4392-4400 GRAINSTONE white, soft, friable, very oolitic, chalky in part, good intg porosity, very spotty faint brown stain, poor dim cut

4400-10 LIMESTONE off white, slightly hard, chalky, poor porosity, no shows

4410-40 SHALE red, firm, fissile, argillaceous

F ZONE

4434-50 LIMESTONE buff, hard, oolitic, dense, poor porosity, no shows

4450-58 SHALE as above

4466-70 LIMESTONE buff, hard, dense, slightly oolitic, poor porosity, no shows

4470-4548 SHALE red, firm, fissile, argillaceous with thin LIMESTONE as above

MEARS B 1-9 SAMPLES DESCRIPTIONS

4548-60 LIMESTONE buff,hard,fossils,slightly chalky,poor vis porosity,no shows

4560-86 SHALE red,gray,green,soft,very argillaceous,gummy

PAWNEE

4586-96 GRAINSTONE white, firm,very oolitic,slightly chalky,fair to trace good intg porosity,spotty to even light brown stain,very good mlky cut,good show free oil

4596-4650 LIMESTONE pale gray,very hard,dense, no shows with thin stringers SHALE as above some gray black,slightly carbonaceous

4650-70 SHALE as above

4670-4714 LIMESTONE buff,very hard,dense, clkly in part,poor porosity,no shows

4714-40 SHALE as above some black,fissile,carbonaceous with thin LIMESTONE as above

RTD 4740'

LTD 4738'