

**BEREXCO, LLC.  
ARDENE #1-17  
SENE SECTION 17 2S-37W  
CHEYENNE COUNTY, KANSAS**

**GEOLOGIST  
WILLIAM B. BYNOG**

## RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: ARDENE #1-17

LOCATION: SENE SECTION 17 2S-37W

COUNTY: CHEYENNE

STATE: KANSAS

SPUD DATE: 10-27-2015 COMPLETION DATE: 11-8-2015

ELEVATIONS: GL: 3256 KB: 3267

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 4050-4120, DST#2 4130-4225,  
DEST#3 4200-4280, DST#4 4260-4330,  
DST#5 4315-4400, DST#6 4555-4635

WELL STATUS: RAN 5 ½ PRODUCTION CASING

Ardene #1-17 SAMPLE DESCRIPTIONS

3650-86 SHALE red,firm,silty

3686-3712 LIMESTONE buff,hard,blocky,microcrystalline,sandy in part poor porosity,chalky in part,abundant Chert orange,white

3712-32 Shale red,firm,silty

FORAKER

3732-50 LIMESTONE gray,slightly hard,fossils,dirty,shaly

3750-60 LIMESTONE buff,firm,chalky in part,poor porosity,no shows

3760-70 SHALE gray,firm,calcareous

3770-86 SANDSTONE white,slightly hard,very fine grained,chalky in part,poor vis porosity,no shows

3786-3804 SHALE red,soft,silty

3804-14 LIMESTONE white,firm,oolic,chalky,poor pinpoint porosity,spotty live brown stain,faint cut,no free oil

3814-80 SHALE red,firm,silty

3880-3904 LIMESTONE off white,slightly hard,blocky,chalky in part,oolic,poor pinpoint porosity,spotty black dead stain,faint cut,no live oil

## Ardene #1-17 SAMPLE DESCRIPTIONS

3904-30 LIMESTONE buff,hard,fossils,very chalky in part,poor to fair microcrystalline porosity,no shows with thin SHALE as above

3930-40 LIMESTONE white,slightly hard,oolic,chalky in part,poor vis porosity,very spotty black dead stain

3940-58 SHALE red,firm,slightly silty

TOPEKA

3958-70 LIMESTONE buff,hard,blocky,chalky in part,oolic,poor pinpoint vuggy porosity,spotty black dead tar stain,good cut,no free oil

3970-84 LIMESTONE buff,hard,blocky,slightly oolic,poor pinpoint vuggy porosity,very spotty black dead stain,no free oil

3984-4010 LIMESTONE buff,very hard,dense,crptoxln,chalky in part,no shows

4010-36 SHALE red,green,firm,silty with thin LIMESTONE as above

4036-56 LIMESTONE buff,firm to hard,microcrystalline to sandy in part,poor vis porosity,no shows

4056-70 LIMESTONE buff,very hard,dense,crptoxln,no shows

4070-4105 SHALE red,green,gray green,firm,fissile abundant pyrite

Ardene #1-17 SAMPLE DESCRIPTIONS

OREAD

4105-16 GRAINSTONE white,firm,slightly chalky,fossils,poor to fair microcrystalline and intergranular porosity,spotty to even live brown stain,very good cut,good show free oil

4116-4154 LIMESTONE buff to gray brown,very hard,dense,blocky,crptoxln,no shows with thin SHALE as above

DOUGLAS SAND

4154-64 SANDSTONE translucent, friable, very fine grained, rounded, wsrtd, poor to fair intergranular porosity, spotty to even brown live stain, very good cut, very good show free oil

4164-82 SHALE red, firm, silty

A

4182-92 LIMESTONE white, firm, fossils, chalky in part, poor to fair microcrystalline and pinpoint vuggy porosity, spotty to even live brown stain, good cut, poor show free oil

4192-4200 LIMESTONE buff, light gray brown, very hs, dense, crptoxln, no shows

4200-08 LIMESTONE as above some poor microcrystalline porosity, spotty live stain, poor cut, no free oil

4208-16 SHALE red, green, firm, silty

4216-20 SANDSTONE white, friable, very fine grained, rounded, wsrtd, fair intergranular porosity, spotty live brown stain, fair cut, no free oil

## Ardene #1-17 SAMPLE DESCRIPTIONS

4220-46 SHALE red,firm,argillaceous,fissile

### B

4246-56 LIMESTONE white to buff,hard,blocky,dense,fnly microcrystalline,chalky in part poor porosity,trace black dead stain,no free oil

4256-64 GRAINSTONE white,firm,fossils,chalky in part,poor microcrystalline porosity,fair intergranular porosity,spotty live brown stain,very good cut,fair show free oil

4264-4272 SHALE red,green,firm,fissile,argillaceous abundant pyrite

4272-76 LIMESTONE gray brown,very hard,dense,crptoxln,no shows

4276-4304 SHALE as above abundant pyrite

### C

4304-10 GRAINSTONE off white,firm to slightly hard,very fossils,fair intergranular and microcrystalline porosity,spotty to even live brown stain,very good cut,good show free oil

4310-18 LIMESTONE buff,very hard,dense,no shows

4318-24 GRAINSTONE off white,slightly hard, fossils,poor to fair intergranular and pinpoint vuggy porosity,spotty live brown stain,good cut,good show free oil

## Ardene #1-17 SAMPLE DESCRIPTIONS

4324-44 SHALE red,green,firm,silty in part trace black,blocky,carbonaceous

D

4344-50 GRAINSTONE off white,hard,blocky,very oolic,poor to fair intergranular porosity,spotty live brown stain,fair cut,no free oil

4350-66 SHALE red,green,firm,argillaceous,fissile with thin LIMESTONE buff,hard,blocky,dense,no shows

4366-70 GRAINSTONE off white,slightly hard,oolic,poor to fair intergranular porosity,spotty live brown stain,good cut,fair show free oil

4370-83 SHALE as above

4383-87 LIMESTONE white,slightly hard,fossils,poor intergranular porosity,spotty live brown stain,good cut,poor show free oil

E

4387-4414 LIMESTONE buff,very hard,dense,crptoxln,no shows with thin SHALE as above

4404-08 SANDSTONE red,pale green,firm,very fine grained,rounded,clay filled,poor porosity,no shows

4408-26 SHALE as above

F

## Ardene #1-17 SAMPLE DESCRIPTIONS

4426-32 LIMESTONE off white to pale gray,hard,blocky,chalky,poor pinpoint porosity,very spotty black dead stain,no live oil

4432-40 LIMESTONE buff,very hard,dense,blocky,crptoxln

4432-58 SHALE red,firm,silty in part,fissile

4458-4510 LIMESTONE buff,hard,dense,crptoxln,slightly fossils,chalky in part,no vis porosity,no shows with thin SHALE as above

4510-30 SHALE red,green,gray,soft,very argillaceous,gummy

4530-540 SILTSTONE red,firm,sandy in part

4540-68 LIMESTONE white,firm,microcrystalline to sandy in part,chalky,poor vis porosity,no shows

4568-86 SHALE red,green,gray,firm,fissile,britt

PAWNEE

4586-92 GRAINSTONE off white,firm,very fossils,chalky in part,poor microcrystalline and intergranular porosity,spotty to even live brown stain,very good cut,good show free oil

4592-97 LIMESTONE buff,hard,blocky,dense,poor vis porosity,no shows



## Ardene #1-17 SAMPLE DESCRIPTIONS

4697-4602 LIMESTONE off white,slightly hard,blocky,chalky,microcrystalline,poor vis porosity,very spotty live brown stain,faint cut,no free oil

4602-10 SHALE gray,black,firm,fissile,carbonaceous

FORT SCOTT

4610-14 LIMESTONE off white,hard,blocky,chalky in part,microcrystalline,poor crystalline porosity,very spotty faint oil stain,weak cut,no free oil

4614-22 LIMESTONE off white,very hard,dense,chalky,abundant Chert white,poor vis porosity,no shows

4622-32 SHALE black,d gray,firm,fissile,carbonaceous

4632-42 LIMESTONE buff,hard,dense,blocky,crptoxln,no shows

4642-50 SHALE black,slightly hard,britt,very carbonaceous

4650-70 LIMESTONE buff,very hard,very dense,crptoxln,no shows chalky in part,aome Chert white

4670-4700 LIMESTONE as above with intrbdd SHALE as above

4700-30 SHALE red,green,firm,sandy in part

Ardene #1-17 SAMPLE DESCRIPTIONS

4730-50 SANDSTONE translucent,firm,m to coarse grained,angular,poor sorted,sileous,poor vis porosity,no shows with thin SHALE as above

4750-62 SHALE red,green,firm,fissile,silty in part

4762-4800 SANDSTONE trnls,as above abundant unconsolidated m to very coarse grains with thin SHALE as above

RTD 4800'

LTD 4811'