

**BEREXCO, LLC.
THERESA #1-27
W2NENENW SECTION 27 1S-36W
RAWLINS COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: THERESA #1-27

LOCATION: W2NENENW SECTION 27 1S-36W

COUNTY: RAWLINS

STATE: KANSAS

SPUD DATE: 3-17-2015 COMPLETION DATE: 3-24-2015

ELEVATIONS: GL: 3122 KB: 3133

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 4025-4113, DST#2 4095-4225, and
DST #3 4215-4310

WELL STATUS: P & A

DISCUSSION

Theresa #1-27 1S-36W was drilled a total depth of 4400 feet testing the Lansing Kansas City in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Theresa #1-27 came in 24 feet low to the prognosis and low to productive wells in the area.

As a result of running low there were either tight zones with fair shows or wet zones with fair porosity development.

There were minor shows of dead oil up hole in the Foraker and lower Wabaunsee formations, none worthy of a drill stem test. The Lansing A zone was the first good show and was tested on drill stem test #1 recovering only 5 feet of mud with oil spots. The B zone was associated with a good drilling break and had good sample shows. Drill stem test #2 on the B zone recovered 1060 feet of muddy water or watery mud with 60 feet of oil cut mud. The C and E zones both had oil shows and were tested together on drill stem test #3 recovering 60 feet of mud.

Logs agreed with sample evaluation recording fair porosity development but low resistive, porous zones indicating water or depleted reservoirs.

A decision was made to plug and abandon based on the poor drill stem test recoveries and log calculations.

THERESA #1-27 SAMPLE DESCRIPTIONS

3500-44 SHALE red,firm,argillaceous,silty in part

3544-64 LIMESTONE pale gray,slightly hard,fossils,chalky in part, poor vis porosity,no shows

3544-3600 SHALE as above

3600-20 LIMESTONE gray,very hard,dense,chalky in part, poor porosity,no shows abundant
Chert white,ornd

3620-44 SHALE red,firm,becoming very silty

FORAKER

3644-58 LIMESTONE white,firm,very oolitic,chalky,poor intergranular porosity,spotty black
dead stain, no live oil

3658-81 LIMESTONE dark gray brown,very hard,dense,fossils,poor porosity,no shows with very
thin SHALE as above

3681-92 LIMESTONE white,soft,very sandy,chalky,poor vis porosity,no shows

3692-3730 SHALE red,gray,firm,very silty

3730-40 LIMESTONE buff,pale gray,hard,blocky,dense,sandy in part,chalky in part poor
porosity,no shows

3740-60 SHALE red,very soft,very argillaceous

THERESA #1-27 SAMPLE DESCRIPTIONS

3760-70 LIMESTONE buff,very hard,dense,sandy in part,blocky,no shows

3760-3810 SHALE red,very soft,very argillaceous

3810-42 LIMESTONE off white,slightly hard,oolitic,chalky,poor vis intergranular porosity,spotty dead black stain,no free oil with thin SHALE as above

3842-62 SHALE red,very soft,very argillaceous

TOPEKA

3862-3904 LIMESTONE buff,pale yell,very hard,dense,crptoxln, blocky,no shows some Chert orange with thin SHALE as above

3904-26 SANDSTONE translucent,pale yell,unconsolidated,m to coarse grained,rounded, some very large grains,good porosity,no shows

3964-50 SHALE red,firm,very silty

3950-79 SHALE red,maroon,firm,silty becoming argillaceous

OREAD

3979-96 LIMESTONE white,firm,micxln,chalky in part,fair crystalline porosity,no shows

3996-4010 LIMESTONE pale gray brown,very hard,very dense,crptoxln,no shows

THERESA #1-27 SAMPLE DESCRIPTIONS

4010-30 LIMESTONE gray,gray brown ,very hard,very dense,crptoxln, blocky,abundant Chert orange,no shows

4030-60 SHALE black,gray black,firm,fissile,slightly carbonaceous with thin LIMESTONE gray brown,very hard,very dense,blocky,crptoxln,no shows

4060-81 Shale red,soft,very argillaceous

LANSING A

4081-90 LIMESTONE off white,firm,oolitic,good oomoldic porspty to even light brown stain,good cut,no free oil

4090-4100 LIMESTONE buff,hard,dense,micxln,poor porosity,no shows

4100-11 SANDSTONE pale gray,friable,very fine to fine good,rounded,wsrtd,fair intergranular porosity,very spotty live light brown stain,poor cut,no free oil with thin SHALE as above

4111-44 SHALE red,soft,argillaceous

B

4144-50 LIMESTONE white,firm,oolitic,chalky in part,fair intergranular and pinpoint vuggy porosity,spotty live brown stain,good cut,fair show free oil

4150-54 LIMESTONE as above with black asphalt stain,good cut,no free oil

THERESA #1-27 SAMPLE DESCRIPTIONS

4154-58 LIMESTONE buff,very hard,dense,crptoxln,no shows

4158-68 SHALE green,firm,fissile

4168-75 LIMESTONE buff,very hard,dense,no shows

4175-4202 SHALE red,soft,very argillaceous

C

4202-10 LIMESTONE white,firm,chalky,slightly oolitic,poor pinpoint vuggy porosity,spotty black asphalt dead stain,no free oil

4210-20 LIMESTONE pale gray white,slightly hard,very chalky in part,poor vis porosity,no shows

4220-46 SHALE red,firm,fissile,argillaceous

D

4246-62 LIMESTONE buff,pale gray,very hard,dense,chalky in part,poor porosity,no shows

4262-90 SHALE as above becoming slightly hard,fissile

E

4290-95 LIMESTONE white,slightly hard,micrpxln,chalky in part,poor crystalline porosity,very spotty faint brown stain,weak cut,no free oil

THERESA #1-27 SAMPLE DESCRIPTIONS

4295-4306 LIMESTONE white,firm,very chalky,poor vis porosity,no shows

4306-28 SHALE red,soft,very argillaceous

F

4328-40 LIMESTONE white,buff,hard,fnly microcrystalline,chalky in part poor porosity,no shows

4340-50 SHALE as above

4350-60 LIMESTONE buff,pale gray,hard,dense,vfny microcrystalline, poor porosity,no shows
with thin SHALE as above

RTD 4400'

LTD 4402'