

**BEREXCO, LLC.**  
**JUDY #1-21**  
**SENE SECTION 21 1S-36W**  
**RAWLINS COUNTY, KANSAS**

**GEOLOGIST**  
**WILLIAM B. BYNOG**

## RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: JUDY #1-21

LOCATION: SENE SECTION 21 1S-36W

COUNTY: RAWLINS

STATE: KANSAS

SPUD DATE: 4-7-2015 COMPLETION DATE: 4-16-2015

ELEVATIONS: GL: 3235 KB: 3246

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 4140-4225, DST#2 4205-4335,  
DST#3 4315-4420

WELL STATUS: P & A

## **DISCUSSION**

Judy #1-21 1S-36W was a wildcat drilled a total depth of 4550 feet testing the Lansing Kansas City in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control, just west of East Fork field.

Structurally, Judy #1-21 came in 15 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 lower Wabaunsee formation, not 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 15 feet of drilling mud. The B and C zones were associated with a good drilling break and had fair sample shows, but tested 150 feet of oil spotted mud and 205 feet of muddy water on drill stem test #2. The D and E zones both had poor oil shows and were tested together on drill stem test #3 recovering only six inches of free oil and 58 feet of oil cut 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.

## JUDY #1-21.SAMPLE DESCRIPTIONS

3600-3720 SHALE red,soft,argillaceous,very silty in part

3720-30 LIMESTONE pale gray,hard,dense,dirty,sandy in part, poor porosity,no shows

3730-68 SHALE red,very soft,very argillaceous,some silty in part

### FORAKER

3768-96 LIMESTONE pale gray,buff,hard,abundant white,chalky,abundant Chert orn,poor vis porosity,no shows

3796-3811 LIMESTONE buff,slightly hard,slightly chalky,sandy in part,poor vis porosity,very spotty black dead stain,nfo

3811-3927 SHALE red,soft,very argillaceous

3927-3954 LIMESTONE white,buff,firm,chalky in part,slightly hard,blocky,poor porosity,no shows

3954-84 SHALE as above

### TOPEKA

3984-4012 LIMESTONE buff,white,hard,blocky,dense,crptoxln,abundant chalky in part abundant Chert tan,orange,poor porosity,no shows

4012-34 SANDSTONE white to pale red,friable,very fine grained,fair porosity,no shows with thin SHALE as above

## JUDY #1-21.SAMPLE DESCRIPTIONS

4034-92 Shale red,maroon,firm,silty with thin LIMESTONE buff,hard, dense,cprtoxn,no shows

OREAD

4092-4110 LIMESTONE white,firm,micxln,chalky in part,slightly fossils,poor to fair micxln porosity,no shows

4110-50 LIMESTONE pale gray,very hard,dense,crptoxln,some Chert orange,no shows

4150-93 SHALE gray,gray green,gray black,firm,silty in part

LANSING A

4193-4198 LIMESTONE white,buff,slightly hard,slightly chalky,oolitic,poor intergranular porosity,spotty asphalt stain,fair cut,no free oil

4198-4210 LIMESTONE pale gray,very hard,dense,blocky,crptoxln,no shows

4210-20 SHALE red,soft,very argillaceous with thin SANDSTONE translucent,friable,very fine grained,poor to fair intergranular porosity,no shows

4220-44 SHALE red,soft,silty in part

B

4244-54 LIMESTONE white,firm,chalky,slightly oolitic,fair intergranular porosity,spotty thick black live oil stain,good cut,fair show thick oil

## JUDY #1-21.SAMPLE DESCRIPTIONS

4254-70 LIMESTONE buff,hard,blocky,chalky in part,poor pinpoint vuggy porosity,very spotty live brown stain,good cut,no free oil abundant pyrite with thin SHALE as above

4270-80 SHALE green,gray green,red,firm,fissile with very thin LIMESTONE

4280-4308 SHALE red,soft,very argillaceous

C

4308-15 LIMESTONE buff,slightly hard,slightly oolitic,poor to fair moldic porosity,spotty live brown stain,good cut,no free oil

4315-24 LIMESTONE buff,hard,blocky,crptxln,poor porosity,rare black dead stain

4324-54 SHALE red,firm,fissile

D

4354-70 LIMESTONE buff,very hard,dense,blocky,poor pinpoint vuggy porosity,very spotty live brown stain,fair cut,no free oil with thin SHALE as above

4370-96 Shale as above firm,fissile,some very argillaceous,gummy

E

4396-4400 LIMESTONE buff,slightly hard,fossils,chalky in part,poor molcic porosity,spotty live brown stain,

## JUDY #1-21.SAMPLE DESCRIPTIONS

4400-10 LIMESTONE buff,very hard,dense,blocky,crptoxln,no shows

4410-36 SHALE red,firm,fissile,very silty in part

F

4436-50 LIMESTONE buff,pale gray,very hard,dense,crptoxln,no shows

4450-70 LIMESTONE as above with abundant chalky,poor porosity,no shows,thin SHALE as above

4470-96 LIMESTONE as above chalky in part

4496-50 SHALE red,green,firm,fissile with thin LIMESTONE as above

RTD 4550'

LTD 4550'