

**BEREXCO, LLC.
MOSER C #6-28
S2S2SW SECTION 28 1S-36W
RAWLINS COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

RESUME

OPERATOR: BEREXCO, LLC.

WELL NAME & NUMBER: MOSER C #6-28

LOCATION: S2S2SW SECTION 28 1S-36W

COUNTY: RAWLINS

STATE: KANSAS

SPUD DATE: 6-22-2015 COMPLETION DATE: 7-2-2015

ELEVATIONS: GL: 3283 KB: 3294

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG TECH TYPES: RAG, MICROLOG & DIL

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 4170-4270, DST#2 4250-4330,
DST#3 4310-4420 & DST#4 4408-4460

WELL STATUS: PLUG & ABANDON

DISCUSSION

Moser C #6-28 1S-36W was drilled a total depth of 4658 feet testing the Lansing Kansas City and Pawnee formations in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control, just southwest of East Fork field on a satellite structure.

Structurally, Moser C #6-28 came in 13 feet low to the prognosis and low to productive wells in the area.

As a result of running low there were either tight or wet zones with poor to fair porosity development and low resistivity.

While drilling ahead there were minor shows of dead oil up hole in the upper Foraker and Wabunsee formations, none worthy of a drill stem test. The Lansing A zone was the first live oil show encountered in a fossiliferous Limestone and was tested on drill stem test #1 recovering 230 feet of oil spotted mud. The B zone was associated with a good drilling break, fair to good porosity development and good live sample shows in a fossiliferous Grainstone. This zone was tested on drill stem test #2 recovering 930 feet of total fluid; 20 feet of oil, 190 feet of oil cut mud (25% oil), 125 feet of oil and water cut mud (15 oil, 20% water and 65% mud) and 595 feet of oil and mud cut water (2% oil, 73% water and 25% mud). Drilling continued to the C zone encountering good live oil shows. The C and D zones were tested together on drill stem test #3 recovering 60 feet of oil spotted mud. The E zone had a very faint oil show with a poor cut and was tested on drill stem test #4 recovering only 10 feet of mud.

Logs agreed with sample evaluation recording poor to fair porosity development. The zones that were permeable appeared to be wet on logs and drill stem tests.

A decision was made to plug and abandon due to the low oil recoveries on drill stem tests and wet or tight log calculations.

MOSER C #6-28 SAMPLE DESCRIPTIONS

3700-96 SHALE red,fair,very silty

3796-3808 LIMESTONE white,slightly hard,oolitic,very chalky,poor vis porosity,spotty black dead stain,no free oil, abundant Chert orange

3808-40 LIMESTONE pale gray,hard,blocky,dirty,silty in part,no shows with thin SHALE green,firm,waxy

3840-50 SANDSTONE off white,firm,very fine grained,argillaceous,calcareous cement,poor porosity,no shows

3850-3900 SHALE red,some green,soft,very argillaceous,with thin LIMESTONE white,soft,very chalky,some Chert orange

3900-24 SHALE red,green,firm,silty

3924-30 LIMESTONE buff,hard,blocky,slightly fossils,dense,poor porosity,no shows

3930-64 SHALE as above with thin LIMESTONE as above

3964-76 LIMESTONE off white,firm,oolitic,chalky,poor pinpoint vuggy porosity,abundant black dead stain,nfo

3976-96 SHALE as above

FORAKER

MOSER C #6-28 SAMPLE DESCRIPTIONS

3996-4002 LIMESTONE buff,hard,blocky,slightly fossils,poor porosity,very spotty black dead stain,nfo

4002-08 SHALE red,firm,fissile

TOPEKA

4008-46 LIMESTONE buff,pale gray,very hard,dense,blocky,crptoxln, abundant Chert white,orange

4046-50 SHALE red,soft,very argillaceous

4050-68 SANDSTONE pale red,friable,very fine grained,very argillaceous,fair vis porosity,no shows

4068-78 SHALE red,soft,very argillaceous

4078-4100 LIMESTONE white,firm,fossils,very chalky,poor to fair intergranular to crystalline porosity,no shows

4100-32 SHALE maroon,slightly hard,very silty

4132-44 SHALE red,soft,very argillaceous

OREAD

4144-62 LIMESTONE white,firm,microcrystalline to chalky,poor to fair microcrystalline porosity,no shows

MOSER C #6-28 SAMPLE DESCRIPTIONS

4162-86 LIMESTONE buff,pale tan,very hard,dense,blocky,crptoxln,no shows

4186-4202 SHALE dark gray,gray black,hard,silty in part,slightly carbonaceous

4202-08 SHALE gray,firm,silty,some sandy in part,very fine grained,poor porosity,no shows

4208-32 SHALE red,very soft,very argillaceous

A

4232-46 LIMESTONE pale gray,firm,very fossils,fair to good oocastic moldic porosity,spotty to even live brown stain,very good cut,very good show free oil

4246-60 LIMESTONE buff,pale tan,very hard,very dense,crptoxln,no shows some Chert orange

4260-64 SANDSTONE translucent,friable,very fine grained,poor to fair intergranular porosity,no shows with SHALE as above

4264-92 SHALE red,firm,very silty

B

4292-4305 GRAINSTONE white,firm,very fossils,chalky in part,fair to good intergranular porosity,spotty to even live black stain,very good cut,good show free oil

4305-12 LIMESTONE buff,hard,blocky,very chalky in part,poor vis porosity,very spotty live black stain,good cut

MOSER C #6-28 SAMPLE DESCRIPTIONS

4312-30 SHALE green,red,firm,silty with thin LIMESTONE buff,pale gray,hard,dense,poor porosity,no shows

4330-52 SHALE red,firm,fissile,argillaceous

C

4352-48 LIMESTONE buff,hard,slightly fossils,dense,poor porosity,no shows

4358-62 LIMESTONE white,firm,fossils,chalky in part,poor to fair intergranular porosity,spotty live brown stain,fair cut,poor show free oil

4362-68 LIMESTONE buff,hard,dense,chalky,poor porosity,no shows

4368-94 SHALE green,firm,argillaceous

D

4394-98 LIMESTONE buff,very hard,dense,blocky,crptoxln,no shows

4398-4408 LIMESTONE buff,slightly hard,fossils,microcrystalline,poor to fair intxln porosity,spotty faint brown stain,fair slow cut,no free oil

4408-20 LIMESTONE buff,very hard,dense,crptoxln,no shows with thin SHALE as above

4420-40 SHALE red,firm,fissile,argillaceous

MOSER C #6-28 SAMPLE DESCRIPTIONS

E

4439-45 LIMESTONE buff,hard,blocky,chalky in part,poor vis porosity,no shows

4445-52 LIMESTONE white,firm,slightly fossils,chalky,poor vis microcrystalline porosity,very spotty faint brown stain,very faint cut,no free oil

4452-58 LIMESTONE buff,hard,dense,chalky in part,no shows

4458-74 SHALE red,firm,fissile

F

4474-4500 LIMESTONE buff,very hard,dense,crptoxln,no shows with thin SHALE as above

4500-12 LIMESTONE white,firm,chalky,fossils,poor vis porosity,no shows

4512-80 SHALE red,firm,silty, sandy in part with thin LIMESTONE buff,very hard,dense,crptoxln

4580-90 LIMESTONE pale gray,hard,chalky,dirty,sandy in part,poor porosity,no shows

4590-4632 SHALE red,firm,fissile

PAWNEE

MOSER C #6-28 SAMPLE DESCRIPTIONS

4632-50 LIMESTONE buff,hard,blocky,microcrystalline,sandy in part,poor porosity,no shows

4650-58 SHALE as above becoming very argillaceous

RTD 4658'

LTD 4655'