BEREXCO, LLC. MICHAEL #10-22 NESENWSW 22 1S-36W RAWLINS COUNTY, KANSAS

GEOLOGIST WILLIAM B. BYNOG

RESUME

OPERATOR:

BEREXCO, LLC.

WELL NAME & NUMBER:

MICHAEL #10-22

LOCATION:

NESENWSW 22-1S-36W

COUNTY:

RAWLINS

STATE:

KANSAS

SPUD DATE: 1-15-2015

COMPLETION DATE: 1-25-2015

ELEVATIONS:

GL: 3109

KB: 3120

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 3990-4100, DST#2 4075-4180, DST#3 4134-4200, DST#4 4190-4300

WELL STATUS:

P & A

DISCUSSION

Michael #10-22 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, Michael #10-22 came in 6 feet high to the prognosis and low to productive wells in the area.

As a result of running low there were poor sample shows of dead oil stain and poor porosity development in Foraker, Topeka and Oread. The Lansing A zone was the first quality show and was tested on drill stem test #1 recovering only 5 feet of mud with depleted pressures. The B zone was associated with a good drilling break and good sample shows. Drill stem test #2 on the B zone recovered 188 feet of total fluid, 283 feet of oil cut mud (20% oil), 441 feet of oil cut mud (10% oil) and 464 feet of mud cut water. The C zone also had a good drilling break with good oil shows. Drill stem test #3 only recovered 5 feet of mud cut oil (55% oil). The D and E had poor shows and were tested on drill stem test #4 recovering 836 feet of water with some oil spots.

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 due to the lack of favorable drill stem test recoveries.

MICHAEL #10-22 SAMPLE DESCRIPTIONS BEREDCO DRILLING RIG 10 HOLE SIZE 7 7/8

3600-30 SHALE red,firm,very argillaceous,silty in part FORAKER
3630-44 LIMESTONE white, firm, chalky, fossils, poor vis porosity, rare black dead stain, no free oil
3644-68 LIMESTONE tan, very hard, dense, slightly fossils, sandy in part, no shows with thin SHALE gray, gray green, firm, fissile
3668-80 LIMESTONE buff,firm,very sandy,chalky in part,poor vis porosity,no shows
3680-3710 SHALE gray green,red,,firm,sandy in part,with thin LIMESTONE as above
3710-24 LIMESTONE buff,very hard,dense,blocky,crptoxln
3724-3800 SHALE red, firm, silty in part with thin LIMESTONE as above very dense, no shows
3800-30 LIMESTONE buff,pale yell,hard,slightly fossils,slightly chalky in part,few pieces with poor vis pinpoint porosity,very spotty black dead stain,no free oil
3830-48 SHALE red,firm,argillaceous

TOPEKA

3848-80 LIMESTONE buff,pale yell,hard,chalky in part,microcrystalline,poor porosity,no shows

3880-88 SHALE as above

3888-3906 SANDSTONE white, friable, very fine grained, wsrtd, chalky cement, fair porosity, no shows

3906-62 SHALE red,maroon,green,firm,very silty with thin LIMESTONE buff,very hard,dense,no shows

OREAD

3962-68 LIMESTONE buff,hard,blocky,sbchky in part,poor porosity,no shows

3968-78 LIMESTONE white, firm, very chalky, slightly oolitic, sandy in part, poor vis porosity, trace rare black dead stain, no free oil

3978-4016 LIMESTONE buff,pale gray,very hard,dense,crptoxln

4016-44 SHALE dark gray black, slightly hard, fissile, slightly carbonaceous with thin LIMESTONE tan, very hard, very dense

4044-64 SHALE red, very soft, very argillaceous

LANSING A

4064-72 LIMESTONE, white, firm, chalky in part, fossils, poor to fair intergranular porosity, spotty live brown stain, fair strmg cut, no show free oil

4072-82 LIMESTONE buff, very hard, very dense, crptoxln texture, no shows with thin SHALE as above 4082-90 SANDSTONE white, friable, very fine grained, chalk cement, poor vis porosity, very spotty live brown stain, slightly fair cut, trace free oil 4090-4122 SHALE red, very soft, very argillaceous В 4122-32 GRAINSTONE white, firm, oolitic, chalky, fair intergranular porosity, spotty thick live stain, slightly gd milky cut, no free oil 4132-40 LIMESTONE buff,pale gray,hard,sbchky in part,dense,poor vis porosity 4240-60 SHALE red, green, firm, waxy in part with thin LIMESTONE buff, hard, dense, no shows 4160-80 SHALE red, firm, chalky, argillaceous C 4180-86 GRAINSTONE white, firm, oolitic, chalky in part, poor some fair intergranular porosity, spotty live brown stain, good cut, fair show free oil 4186-96 LIMESTONE buff,hard,blocky,dense,crptoxln,no shows 4196-4228 SHALE pale green, firm, argillaceous, waxy in part

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4228-34 LIMESTONE white, slightly hard, fossils, chalky in part, poor vis porosity, no shows

4234-44 LIMESTONE buff, very hard, dense, blocky, crptoxln, no shows with thin SHALE as above

4244-66 SHALE red, firm, chalky, argillaceous

E

4266-74 LIMESTONE white, firm, chalky, slightly fossils, poor microcrystalline porosity, very spotty live brown stain, good cut, fair show free oil

4274-82 LIMESTONE white, firm, very chalky, poor vis porosity, no shows

4282-4306 SHALE red, firm, very silty in part

F

4306-36 LIMESTONE buff, hard, blocky, dense, chalky in part, poor porosity, no shows with thin SHALE as above

4336-4400 SHALE red, green, firm, chalky, silty in part with thin LIMESTONE as above

RTD 4400'

LTD 4395'