

**BEREXCO, LLC.
SATURIN UNIT # 1
EW2W2E2 SECTION 9 14S-17W
ELLIS COUNTY, KANSAS**

**GEOLOGIST
WILLIAM B. BYNOG**

RESUME

OPERATOR: BEREXCO, INC.

WELL NAME & NUMBER: SATURIN UNIT # 1

LOCATION: E2W2E2 SECTION 9 14S-17W

COUNTY: ELLIS

STATE: KANSAS

SPUD DATE: 10-11-2010 COMPLETION DATE: 10-21-2010

ELEVATIONS: GL: 2023' KB: 2034'

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG TECH TYPES: RAG, MICROLOG

WELLSITE ENGINEER: NONE

MUD COMPANY: ANDY'S

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 3324-48, DST#2 3416-3500, DST#3 3515-60, DST#4 3560-75, DST#5 3560-91, DST#6 3591-3606

WELL STATUS: SET PRODUCTION PIPE

SUMMARY AND CONCLUSION

Saturin Unit # 1 was drilled a depth of 3656 testing the Lansing Kansas City and Arbuckle Formations in Ellis County, Kansas. Their primary objective was the Arbuckle zone. Saturin Unit # 1 was a direct offset to Simon # 4, productive in the Lansing B, C and Arbuckle formations.

Structurally, Saturin Unit # 1 came in twelve feet low to Simon # 4 but still had many good oil shows in the Lansing Kansas City and Arbuckle formations. The Lansing B zone had good shows and was tested on drill stem test # 1 recovering only eight feet of mud with oil spots. The C, F and G zones all had fair shows but weren't tested, since we were running low. The H and I zones had fair shows but appeared to be tight. These zones were tested on drill stem test # 2 recovering only twelve feet of mud with oil spots.

The Arbuckle had very good shows and was tested on drill stem test # 3, 4, 5 and 6. Drill stem test # 3, 3515-60 feet in the very top recovered only fifteen feet of oil cut mud, no water. Drill stem tests # 4 & # 5 recovered gas in pipe and hundreds of feet of oil and no water in the more permeable upper Arbuckle from 3560-90 feet. Drill stem test # 6 recovered only eight feet of oil cut mud from 3591-3606 feet.

Electric logs agreed with drill stem test indicating tight zones in the Lansing Kansas formation with the exception of the G zone and a permeable Arbuckle with high resistivity from 3552-85 feet.

SATURIN UNIT #1

SATURIN UNIT # 1 SAMPLES DESCRIPTIONS.txt
SAMPLE DESCRIPTIONS

ANHYDRITE 1217(+817) S 1212(+822) L

BASE 1255(+779) S 1252(+882) L

2850-80 SHALE gray,green,firm,argillaceous

2880-2910 LIMESTONE buff,tan,hard,slightly fossils, sandy poor porosity

2910-30 SHALE as above abundant pyrite

2930-60 LIMESTONE buff,gray,tan,very hard,dense,slightly fossils

2960-3020 SHALE gray,green,firm,slightly pyritic

TOPEKA

3020-50 LIMESTONE buff,tan,very hard,dense, fossils,poor porosity,with thin SHALE
as above

35' ZONE

3050-60 LIMESTONE white,firm,chalky,fossils,poor vis porosity,no shows

3060-85 LIMESTONE tan,very hard,very dense,cryptocrystalline

3085-3100 SHALE gray,green,firm,fissile,argillaceous

3100-40 LIMESTONE buff,tan,very hard,dense,slightly
fossils,cryptocrystalline,abundant Chert white,tan with thin SHALE
black,firm,fissile,carbonaceous

SATURIN UNIT # 1 SAMPLES DESCRIPTIONS.txt

3140-50 SHALE green,soft to firm,very argillaceous

3150-75 LIMESTONE buff,tan,very hard,very dense,cryptocrystalline,abundant Chert white,gray

3175-3205 LIMESTONE as above abundant Chert white,gray,thin SHALE black,carbonaceous

3205-10 LIMESTONE white,firm,micro crystalline,poor vis porosity,no shows

3210-25 LIMESTONE buff,tan,very hard,very dense,cryptocrystalline,abundant Chert as above

3225-35 SHALE green,black,firm,silty, in part,some carbonaceous

PLATTSMOUTH

3235-40 LIMESTONE buff,very hard,very dense, cryptocrystalline,Chert as above

3240-50 LIMESTONE white,firm,chlky, microcrystalline,poor vis porosity,no shows,slightly gas odor

3250-68 LIMESTONE as above very dense,abundant Chert white

HEEBNER

3268-72 SHALE black,firm,blocky,carbonaceous

3272-76 LIMESTONE as above very dense,cryptocrystalline

3376-90 SHALE green,gray black,black, firm,slightly carbonaceous

3290-3305 LIMESTONE buff,very hard,dense,slightly fossils,abundant Chert brown,tan

3305-15 SHALE green,rounded,firm,argillaceous

LANSING A

SATURIN UNIT # 1 SAMPLES DESCRIPTIONS.txt

3315-30 LIMESTONE buff,very hard,very dense, cryptocrystalline,abundant Chert white,trace LIMESTONE white,hard,poor pinpoint porosity,very spotty stain,fair cut

3330-35 SHALE as above

B ZONE

3335-45 LIMESTONE buff,firm,oolastic,good oomoldic porosity,spotty brown stain,good cut,faint odor,fair show free oil

3345-55 SHALE green,firm,argillaceous,blocky

C ZONE

3355-60 LIMESTONE buff,slightly hard,oolastic,fair oomoldic and pinpoint vuggy porosity,spotty brown stain,good cut,fair odor,fair show free oil

3360-70 LIMESTONE buff,very hard,very dense, cryptocrystalline

3370-80 SHALE green,gray green,firm,slightly carbonaceous

3380-3390 LIMESTONE buff,very hard,dense, as above

F ZONE

3390-95 LIMESTONE tan,hard,oolitic,poor pinpoint vuggy porosity,spotty brown stain,good cut,poor show free oil

3395-3400 LIMESTONE buff, very hard,very dense,cryptocrystalline

G ZONE

3400-10 LIMESTONE buff,slightly hard,oolitic,oolastic,fair oomoldic porosity,spotty brown stain,good cut,fair show free oil

3410-35 LIMESTONE buff,very hard,dense, cryptocrystalline,abundant Chert white

SATURIN UNIT # 1 SAMPLES DESCRIPTIONS.txt

3435-45 SHALE gray black,green,carbonaceous

H ZONE

3445-52 LIMESTONE buff,hard,oolitic,slightly chlky,poor to fair oomoldic porosity,spotty brown stain,good cut and odor,fair show free oil

3452-62 LIMESTONE buff,very hard,dense, cryptocrystalline,abundant Chert white

3462-65 SHALE gray green,as above

I ZONE

3465-80 LIMESTONE buff,very hard,dense,as above some LIMESTONE buff,hard,poor pinpoint vuggy porosity,spotty stain,good cut,fair show free oil

3480-85 SHALE as above

J ZONE

3485-3490 LIMESTONE pale gray,hard,slightly oolites,poor to fair oomoldic and vuggy porosity,spotty stain,good cut,poor show free oil

3490-3530 LIMESTONE buff,very hard,dense,cryptocrystalline,some Chert white

3530-50 SHALE green,firm,argillaceous,thin LIMESTONE as above

ARBUCKLE

3550-60 DOLOMITE buff,firm,microsuc texture,fair to good intercrystalline and vuggy porosity,even brown stain,very good cut and odor,very good show free oil

3560-66 DOLOMITE buff,slightly hard,microxl,abundant Chert white,poor to fair crystalline and vuggy porosity,spotty to even stain,very good cut and odor,very good show free oil

3566-77 DOLOMITE as above firm,sucrosic,good crystalline and vuggy oomoldic porosity,even stain,very good cut and odor,very good show free oil

SATURIN UNIT # 1 SAMPLES DESCRIPTIONS.txt

3577-80 DOLOMITE buff,hard,microxl,poor to fair crystalline and vuggy porosity,spotty stain,good cut and odor,fair show free oil

3580-82 DOLOMITE as above firm,good porosity,even stain,very good cut and show free oil

3582-88 SHALE ble green,firm,fissile and DOLOMITE tan,very hard,dense,no shows

3588-95 DOLOMITE slightly hard,microsuc to sucrosic,fair to good crystalline and vuggy porosity,spotty to even stain,very good cut and odor,very good show free oil

3595-3610 DOLOMITE buff,hard,microsuc,chalky,poor to fair crystalline and vuggy porosity,spotty stain,good cut and odor,good show free oil

3610-30 DOLOMITE buff,firm,microsuc texture, fair to gd crystalline and vuggy porosity,very spotty dead black stain,fair cut,faint odor,no show free oil

3630-45 DOLOMITE buff,very hard,dense,cryptocrystalline,poor porosity,no shows,abundant Chert white

3645-56 DOLOMITE buff,firm,microsuc,good crystalline porosity,very spotty dead stain,fair cut,no free oil

RTD 3656'

LTD 3656'