BEREXCO, LLC. IVALEE # 1-16 SWSW SECTION 16 1S-37W CHEYENNE COUNTY, KANSAS

GEOLOGIST WILLIAM B. BYNOG

RESUME

OPERATOR:

BEREXCO, LLC.

WELL NAME & NUMBER:

IVALEE # 1-16

LOCATION:

SWSW SECTION 16 1S-37W

COUNTY:

CHEYENNE

STATE:

KANSAS

SPUD DATE: 3-28-2013

COMPLETION DATE: 4-8-2012

ELEVATIONS:

GL: 3185'

KB:3196'

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 4175-4250, DST # 2 4252-4310, DST #3 4325-4380, and DST #4 45440-

4580

WELL STATUS:

P & A

Ivalee #1-16 Sample Descriptions **ANHYDRITE 3151(+45) S** 3152(+44) L BASE 3186(+10) S 3182(+14) L 3500-3606 SHALE red, soft, very argillaceous 3606-32 LIMESTONE pale gray, fair, very sandy, argillaceous, poor porosity, no shows 3632-80 SHALE as above 3680-3700 LIMESTONE as above 3700-24 SHALE red, very soft, very argillaceous **FORAKER** 3724-58 LIMESTONE off white, slightly hard, fossils, chalky in part, pn porosity, no shows

3758-70 LIMESTONE off white, firm, very sandy, chalky, poor vis porosity, no shows

3770-3864 Shale red,firm,very argillaceous with thin LIMESTONE pale gray,hard,blocky, dense,no shows

3864-72 LIMESTONE off white,pale gray,slightly hard,oolitic,chalky in part,poor intg porosity, spotty dead black stain

3872-3900 LIMESTONE buff, very hard, dense, blocky, slightly fossils, very rare black dead stain

3900-10 LIMESTONE white, firm, oolitic, chalky in part. poor porosity, spotty dead black stain, no live oil

3910-46 SHALE red, soft, very argillaceous with very thin LIMESTONE white, hard, slightly oolitic, poor intg porosity, spotty thick black tar stain, good cut, no free oil

TOPEKA

3946 60 LIMESTONE pale gray, very hard, dense, poor porosity, trace dead black stain with stringers SHALE as above

3960-75 SHALE as above

3975-4000 LIMESTONE white, slightly hard, blocky, dense, chalky in part, poor porosity, no shows

4000-25 SHALE as above

4025-40 LIMESTONE off white, firm, oolitic, good oomoldic porosity, no shows

4040-81 SHALE red, firm, silty, **OREAD** 4081-97 LIMESTONE white, pale gray, firm, chalky in part, slightly fossils, poor porosity, trace dead black stain.no free oil 4097-4120 LIMESTONE pale gray, very hard, dense, crptoxln, chalky in part, no shows 4120-56 SHALE red, black, dark green, firm, fissile, slightly carbonaceous Α 4156-88 LIMESTONE buff, very hard, dense, crptoxln, blocky, no shows 4188-98 SANDSTONE white, friable, clay fled, poor porosity, no shows 4198-4224 SHALE as above В 4224-34 GRAINSTONE white, soft, very fossils, chalky in part, fair to good intg and vuggy porosity, spotty to even live brown stain, very good milky cut, good show free oil

4234-50 LIMESTONE pale gray, buff, very hard, dense, poor porosity, no shows

4250-80 SHALE red, firm, argillaceous
C
4280-86 GRAINSTONE white, firm, very fossils, chalky in part, poor to fair intg and vuggy porosity, spotty live brown stain, good cut, fair show free oil
4286-4298 LIMESTONE pale gray, buff, very hard, dense, no shows
4298-4212 SHALE red, very soft, very argillaceous
D
4312-36 LIMESTONE pale gray, very hard, dense, chalky in part, poor porosity, trace black dead stain
4336-60 SHALE as above
E
4360-66 LIMESTONE white, firm, slightly oolitic, very chalky, poor pinpoint vuggy porosity, spotty live brown stain, good cut, no free oil
4366-74 LIMESTONE pale gray,hard,dense, blocky,no shows
4374 to SHALE red, firm, fissile, very argillaceous
F

4404-30 LIMESTONE pale gray, buff, very hard, dense, blocky, slightly fossils, poor porosity, no shows with thin SHALE as above

4430-50 SHALE red, green, firm, becoming very silty

4450-60 LIMESTONE as above, dense, no shows

4460-4512 SHALE as above with thin LIMESTONE as above

4512-42LIMESTONE buff, pale gray, hard, sandy in part, poor porosity, no shows

4542-62 SHALE red, green, gray, firm, blocky

PAWNEE

4562-70 GRAINSTONE white, buff, slightly hard, very oolitic, poor to fair intg vuggy porosity, spotty live brown stain, very good milky cut, good show free oil

4570-90 LIMESTONE buff, very hard, dense, blocky, no shows

4590-4644 SHALE red, green, dark gray, firm, blocky, argillaceous with thin LIMESTONE buff, pale gray, very hard, dense

4644-60 LIMESTONE buff, very hard, dense, crptoxin, no shows

4660-4706 SHALE and LIMESTONE as above, dense, no shows

4706-20 SANDSTONE translucent, white, friable, vg m sorted, fair intg porosity, no shows

4720-30 SHALE red, very soft, very argillaceous, sandy in part

RTD 4730'

LTD 4734'