15-065-23175

BEREN CORPORATION
BRUNGARDT B #4
SWSENW SECTION 22 T10S-R25W
GRAHAM COUNTY, KANSAS

2525 FNL 1490 FWL

GEOLOGIST
WILLIAM B. BYNOG

22-10S-25W

RESUME

OPERATOR:	BEREN CORPORATION.
WELL NAME & NUMBER:	BRUNGARDT B # 4
LOCATION:	SWSENW SECTION 22 T10S-R25W
COUNTY:	GRAHAM
STATE:	KANSAS
SPUD DATE: 5-15-2006	COMPLETION DATE: 5-30-2006
ELEVATIONS:	GL: 2515' KB: 2526'
CONTRACTOR:	BEREDCO # 10
LOGS: LOG TECH	TYPES: DIL, CNL, CDL & MICRO ENGINEER: T.MARTIN
WELLSITE ENGINEER:	NONE
MUD COMPANY:	MUD CO., MUD
MUD TYPE & ENGINEER:	FRESH CHEMICAL:
GEOLOGIST:	WILLIAM BYNOG
HOLE SIZE:	7 7/8
MUD LOGGING BY:	NONE
DRILL STEM TEST COMPANY:	TRILOBITE TESTING
DRILL STEM TEST:	DST#1 3756-3805, DST#2 3804-21, DST#3 3828-70, DST#4 3875-3920, DST#5 3926-80, DST#6 3970-4000, DST#7 3998-4028, DST#8 4253-80
WELL STATUS:	RAN PRODUCTION CASING

SUMMARY AND CONCLUSION

Brungardt #4 was drilled a total depth of 4280 feet in the old productive Ambrose Field. The Lansing Kansas City formation was our primary objective and secondary objective the Cherokee Formation. Structurally, Brungardt #4 came in flat to the surrounding productive wells on the Anhydrite top and remained flat through the Lansing Kansas City and Cherokee sections. There were many Drill Stem tests in the Toronto, Lansing Kansas City and Cherokee formations.

The Toronto at 3794 feet was our first hydrocarbon show with poor to some fair porosity development, spotty brown stain and a good cut. This zone was tested on drill stem test # 1 recovering 300 feet of mud and oil cut water, 1200 feet of oil cut water and 120 feet of oil and water cut mud.

The Lansing A zone at 3810 was a well developed oolitic grainstone with good shows however, drill stem test #2 recovered 2040 feet of muddy water, no oil shows.

The Lansing B and C zones both had fair to good porosity development with good oil shows and were tested on drill stem test #3 recovering 190 feet of gas and oil cut muddy water,300 feet of water cut oil and 720 feet of slightly oil and gas cut water.

The F and G zones both had fair porosity development with fair oil shows and were tested on drill stem test # 4 recovering 3 feet of free oil and 808 feet of muddy water.

The H and I zones both had fair shows and were tested on drill stem test #5 recovering only 6 inches of free oil and 2205 feet of muddy water.

The J zone at 3990 had good porosity development with a very good sample show and was tested on drill stem test #6 recovering 165 feet of gas in pipe, 10 feet of free oil and 1125 feet of mud cut water.

The K zone at 4010 had some fair porosity development with fair sample shows and was tested on drill stem test #7 recovering 10 feet of free oil and 50 feet of oil cut mud, no water. This zone tested tight but is still permeable enough to produce water free oil with a treatment.

Drilling continued through the Marmaton and Pawnee stopping in the Cherokee formation at 4250 feet. There were two thin Grainstone zones in the Cherokee with fair porosity development and fair sample shows. These Zones were tested on Drill stem test #8 recovering only 2 feet of oil cut mud indicating low permeability.

Logs agreed with sample evaluation and Drill stem test data recording fair to good porosity development and high resistivity. The high resistivity is the result of hydrocarbons left behind even after years of production. A decision was made to set production pipe and produce enough oil and water to make a commercial well.

FORMATION TOPS

FORMATION	DEPTH (LOGS)
ANHYDRITE	2155(+371)
BASE	2190(+336)
TOPEAKA	
HEEBNER	3772(-1246)
TORONTO	3794(-1268)
LANSING A	3810(-1284)
LANSING B	3842(-1316)
LANSING C	3852(-1326)
LANSING D	
KANSAS CITY E	
KANSAS CITY F	3888(-1362)
KANSAS CITY G	
KANSAS CITY H	3950(-1424)
KANSAS CITY I	3970(-1444)
KANSAS CITY J	3990(-1464)
KANSAS CITY K	4011(-1485)
KANSAS CITY L	4030(-1504)
BKC	4046(-1520)
MARMATON	4059(-1533)
PAWNEE	4154(-1628)
CHEROKEE	4246(-1720)

BIT RECORD

Bit #	SIZE	MAKE	TYPE	DEPTH OUT	FOOTAGE	HOURS
1	121/4	VAR		231	231	3
2	7 7/8	VAR	CH18	4280	4049	73

DEVIATION RECORD

DEPTH	ANGLE
231	¾
3805	1
4280	¾

DAILY CHRONOLOGY

DATE	DEPTH AT 7:00	FOOTAGE	REMARKS
5-15-06	231	231	Spud, set surface
5-16-06	0	0	Work on motors
5-17-06	1000	769	Drilling
5-18-06	2500	1500	Drilling
5-19-06	3000	500	Drilling
5-20-06	3400	400	Drilling
5-21-06	3600	200	Drilling
5-22-06	3700	100	DST #1
5-23-06	3805	105	DST #2
5-24-06	3870	65	DST#3
5-25-06	3920	150	Drilling
5-26-06	3980	60	DST#4
5-27-06	4000	20	DST#5 &6
5-28-06	4028	28	DST#7
5-29-06	4280	252	DST#8
5-30-06	4280	0	Logging

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Beren Corp
B-4 Brungardt

LITHOLOGY

OREAD

3718-30	Grainstone white, firm, oolitic, chalky, good porosity, spotty brown stain, good cut, show free oil
3730-50	Limestone white, firm, very chalky, oolitic, poor porosity, no show
3750-60	Shale green, firm, calcareous
3760-70	Limestone as above

HEEBNER

3770-80	Shale black, firm, carbonaceous
3780-90	Limestone gray, very hard, dense, some Chert white
3790-95	Shale green, red, firm, calcareous

TORONTO

3795-3805	Limestone white, soft, microsucrosic, oolitic, good porosity, even to spotty brown stain, good cut, show free oil
3805-10	Shale as above

LANSING A ZONE

3710-20	Limestone white, firm, oolitic, chalky, good intergranular porosity, even to spotty brown stain, very good cut, fair odor, show free oil
3720-30	Limestone cream, hard, dense, abundant Chert white
3730-40	Shale as above

B ZONE

3740-50	Limestone white, firm, microsucrosic, chalky, fair intercrystalline porosity, some good vuggy porosity, spotty to even brown stain, good cut

C ZONE

K ZONE

4010-20	Limestone white, hard, oolitic, chalky, fair intergranular porosity, spotty-even brown stain, good cut, good odor, show free oil
4020-30	Shale as above

L ZONE

4030-50	Limestone cream, hard, dense, no show

BKC

4050-60	Shale red, blue, soft, as above

MARMATON

4060-70	Limestone cream, hard, microcrystalline, chalky, sandy very fine grain
4070-90	Limestone cream, very hard, dense, some sandy
4090-4150	Shale green, gray, red, firm, waxy with thin interbedded Limestone as above
4150-4220	Limestone cream, very hard, blocky, chalky, abundant Chert white, orange
4220-40	Shale as above

CHEROKEE

4240-50	Shale black, firm, fissile, carbonaceous
4250-60	Grainstone white, hard, chalky, oolitic, poor pin point porosity, very spotty black stain, good cut, good odor
4260-70	Limestone cream, very hard, dense, no show
4270-80	Grainstone as above, very hard, even to spotty black stain, good cut, fair odor