

G E O L O G I C A L R E P O R T

D. G. HANSEN, TRUST

BONDURANT # 1

NW/4 NE/4 SECTION 19-18S-23W

NESS COUNTY, KANSAS

BY

J. E. JESPERSEN

PETROLEUM GEOLOGIST

CHRONOLOGICAL HISTORY:

<u>Date</u>	<u>7 A. M. Depth</u>	<u>Remarks</u>
8-22-72	0	Spud PM. Ran 8-5/8" to 317' with 225 sacks, plug down 9:15 PM.
8-23-72	317	Drill plug 9:15 AM.
8-24-72	1700	
8-25-72	2495	
8-26-72	2915	
8-27-72	3415	
8-28-72	3721	
8-29-72	3895	
8-30-72	4085	DST # 1
8-31-72	4115	
9-1-72	4245	DST # 2
9-2-72	4310	Ran electric log
9-3-72	4385	Dry and abandoned

BIT RECORD:

<u>Number</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours</u>
Surface				317	317	
1	7-7/8	Reed	YT-3J	1659	1342	15-3/4
2	7-7/8	Reed	YTIT	2410	751	12-3/4
3	7-7/8	HTC	J44	3100	690	36-3/4
4	7-7/8	Reed	YTIT	3721	621	23-1/2
5	7-7/8	Reed	FCM-5J	4258	537	51-3/4
6	7-7/8	Reed	YS4	4385	127	

GEOLOGICAL FORMATION TOPS AND ZONES OF POROSITY:

A detailed lithologic log was maintained from 3600' to Rotary Total Depth. The following are formation tops, recoveries of drillstem tests, descriptions of reservoirs containing shows of oil and the descriptions of reservoirs felt pertinent for the accumulation of hydrocarbons in the area. The depths given are interpolated from drillers' measurements and measured from the Kelly Bushing. Correlative electric log measurements are also given.

SP 3619-3647 Limestone, buff, fine crystalline, fossiliferous, good inter-crystalline and interfossiliferous porosity, no shows. Judged
EL 3627-3638 this zone to be of no commercial value.

SP 3654-3697
EL 3664-3700

Limestone, light buff to cream, fine crystalline, fossiliferous, slightly chalky, good intercrystalline and interfossiliferous porosity, no shows. Judged this zone to be of no commercial value.

HEEBNER

3704 -1383
EL 3702 -1381

TORONTO

3722 -1401
EL 3721 -1400

SP 3726-3733
EL 3720-3724

Limestone, white, fine crystalline, Cherty, chalky, fair intergranular porosity, no shows. Judged this zone to be of no commercial value.

LANSING

3746 -1425
EL 3744 -1423

SP 3752-3756
EL 3744-3748

Limestone, light buff, fine crystalline, fossiliferous, fair intercrystalline porosity, no shows. Judged this zone to be of no commercial value.

SP 3766-3770
EL 3760-3762

Limestone, gray, very fine crystalline, fossiliferous, slightly Shaley, poor intergranular porosity, no shows. Judged this zone to be of no commercial value.

SP 3777-3785
EL 3771-3775

Limestone, light buff, fine crystalline, fossiliferous, sucrosic, fair intercrystalline porosity, no shows. Judged this zone to be of no commercial value.

SP 3792-3797
EL 3790-3792

Limestone, cream, very fine crystalline, Cherty, fossiliferous, poor intercrystalline porosity, no shows. Judged this zone to be of no commercial value.

SP 3822-3827
EL 3820-3823

Limestone, light buff, fine crystalline, fossiliferous, fair interfossiliferous porosity, slightly chalky, no shows. Judged this zone to be of no commercial value.

SP 3833-3842
EL 3827-3836

Limestone, light buff, fine crystalline, finely sucrosic, poor to fair intergranular porosity, no shows. Judged this zone to be of no commercial value.

SP 3851-3855
EL 3850-3858

Limestone, light buff, fine crystalline, fossiliferous, fair to poor interoolicastic porosity, no shows. Judged this zone to be of no commercial value.

SP 3960-3966 Limestone, light buff, fine to medium crystalline, sucrosic,
EL 3958-3964 good oolitic porosity, no shows. Judged this zone to be of
no commercial value.

SP 3990-4000 Limestone, light buff, fine crystalline, fossiliferous, cherty,
EL 3990-3996 slightly chalky, fair interfossiliferous porosity, no shows.
Judged this zone to be of no commercial value.

BASE KANSAS CITY 4036 -1715
EL 4034 -1713

MARMATON 4075 -1754

SP 4075-4085 Limestone, light buff to buff, fine crystalline, fossiliferous,
EL 4070-4082 poor intercrystalline and interfossiliferous porosity, no shows.
Tested this zone, see DST # 1, and found it to be of no
commercial value.

"REEF" ZONE 4094 -1773
EL 4096 -1775

SP 4094-4110 Limestone, light buff, fine crystalline, fossiliferous, fair
EL 4104-4108 interfossiliferous porosity, poor show light brown free oil,
spotted light brown oil stain, no odor. Tested this zone,
see DST # 1, and found it to merit no further testing.

DRILLSTEM TEST # 1 4078-4110

Misrun.

DRILLSTEM TEST # 1 4063-4110

Initial Flow	30 minutes
Initial Shut In Pressure	69#/30 minutes
Final Flow	60 minutes
Final Shut In Pressure	52#/30 minutes
Flow Pressures	43#-52#
Recovered	20' mud.

PAWNEE 4152 -1831
EL 4154 -1833

FORT SCOTT 4240 -1929
EL 4240 -1929

SP 4243-4247 Limestone, light buff, fine crystalline, fossiliferous, fair
EL 4240-4243 intercrystalline and interfossiliferous porosity, poor show
light brown free oil, spotted light brown oil stain, slight
odor. Tested this zone, see DST #2, and found it to be of no
commercial value.

DRILLSTEM TEST # 2

4242-4258

Initial Flow	30 minutes
Initial Shut In Pressure	60#/30 minutes
Final Flow	30 minutes
Final Shut In Pressure	43#/30 minutes
Flow Pressures	17#-17#
Recovered	5' thin mud with show of oil

CHEROKEE

4266 -1945
EL 4264 -1943

SP 4273-4280 Limestone, white to light buff, very fine crystalline, very
EL 4271-4273 finely sucrosic, poor intercrystalline porosity, no shows.
Judged this zone to be of no commercial value.

BASAL PENNSYLVANIAN CONGLOMERATE

4310 -1989
EL 4306 -1985

SP 4315-4322 Sandstone, white, very fine grained, friable, good intergranular
EL 4317-4321 porosity, calcareous. Judged this zone to be of no commercial
value.

SP 4322-4324 Sandstone, buff to white, fine grained, tight to friable, Cherty,
EL 4317-4321 phosphatic and glauconitic, fair intergranular porosity, no shows.
Judged this zone to be of no commercial value.

MISSISSIPPI (WARSAW)

4334 -2013
EL 4330 -2009

SP 4334-4338 Dolomite, cream, fine crystalline, calcareous, good vugular
EL 4334-4338 porosity, no shows. Judged this zone to be of no commercial
value.

SP 4347-4358 Dolomite, light buff, fine crystalline, sucrosic, glauconitic,
EL 4345-4351 good intercrystalline and vugular porosity, no shows. Judged
this zone to be of no commercial value.

SP 4362-4374 Dolomite, light gray to light buff, fine crystalline, finely
EL 4355-4370 sucrosic, glauconitic, Cherty, good intercrystalline porosity,
no shows. Judged this zone to be of no commercial value.

MISSISSIPPI (OSAGE) 4374 -2053
EL 4374 -2053

SP 4374-4382 Chert, white, fresh, tripolitic, fossiliferous, no shows.
EL 4374-4382 Judged this zone to be of no commercial value.

ROTARY TOTAL DEPTH 4385 -2064
EL 4384 -2063

Ran Great Guns, Gamma Ray-Neutron-Guard

REMARKS AND RECOMMENDATIONS:

It is recommended that this well be plugged and abandoned. All zones with shows of hydrocarbons were drillstem tested with negative results (Marmaton Reef Zone and the Fort Scott). The Mississippi Section had no shows of oil; therefore, no further evaluation or drillstem tests were made.

Structurally, this well ran 10' to 13' low to the producing wells to the north-west (The Thunderbird #1 and #2 Redetzke) and approximately 6' to 10' high to the Mull #1 Keller, the northeast offset, which was a dry hole.

Respectfully submitted,


J. E. Jespersen

Bondurant # 1
 NW/4 NE/4 Section 19-18S-23W
 Ness County, Kansas

Depth	Drilling Time	Remarks
3501-3510	4-4-4-3-2-2-3-2-2-2	
3511-3520	2-2-2-1-1-1-4-3-2-2	
3521-3530	2-1-1-2-1-2-1-1-1-1	
3531-3540	1-1-1-2-3-3-1-1-1-1	
3541-3550	3-3-2-2-1-2-3-2-3-2	
3551-3560	3-3-2-2-3-3-2-3-3-4	
3561-3570	3-3-4-4-4-3-3-1-1-1	
3571-3580	1-2-2-4-3-4-4-4-4-4	
3581-3590	3-4-4-4-4-3-2-2-4-5	
3591-3600	4-3-3-4-4-4-4-3-4-4	
3601-3610	4-3-3-4-4-4-4-5-5-5	
3611-3620	4-3-4-5-5-4-4-4-5-3	
3621-3630	4-2-3-2-3-2-3-2-2-2	
3631-3640	2-2-3-2-4-2-2-2-2-2	
3641-3650	2-1-2-2-3-2-5-5-5-5	
3651-3660	5-4-5-4-2-2-3-2-1-1	
3661-3670	1-1-3-3-2-2-2-3-1-1	
3671-3680	2-1-1-1-2-1-1-1-1-1	
3681-3690	1-1-1-2-2-2-1-2-1-1	
3691-3700	1-3-2-2-2-1-3-3-4-2	
3701-3710	4-4-3-2-3-3-6-7-4-3	
3711-3720	3-4-6-5-5-6-6-3-4-8	
3721-3730	7-5-4-4-4-5-4-2-3-2	Bit Trip @ 3721'
3731-3740	2-2-2-4-4-5-3-4-4-5	
3741-3750	5-4-5-5-2-4-3-4-4-4	
3751-3760	5-6-3-2-2-3-4-5-3-4	Circ @ 3760'
3761-3770	3-6-4-5-6-7-5-5-6-5	
3771-3780	5-5-5-5-5-8-11-6-7-6	
3781-3790	7-8-5-5-6-10-6-6-8-8	
3791-3800	6-7-5-5-5-5-5-8-6-9	
3801-3810	5-6-5-6-7-5-7-6-7-6	
3811-3820	5-7-7-6-4-8-8-9-7-5	
3821-3830	5-5-4-4-5-5-6-9-7-5	
3831-3840	5-4-4-5-5-5-5-5-5-5	
3841-3850	5-5-8-6-8-10-7-8-8-9	
3851-3860	8-4-3-3-7-8-8-8-10-10	
3861-3870	10-7-6-9-9-8-7-6-6-10	
3871-3880	10-8-8-10-11-11-10-9-7-7	
3881-3890	8-8-6-7-9-8-7-6-6-9	
3891-3900	8-6-5-7-6-4-5-6-4-6	

Bondurant # 1
 NW/4 NE/4 Section 19-18S-23W
 Ness County, Kansas

Depth	Drilling Time	Remarks
3911-3920	5-5-6-5-6-6-6-6-6-6	
3921-3930	7-7-7-6-5-6-6-5-5-5	
3931-3940	6-5-6-5-5-5-6-6-5-7	
3941-3950	6-7-6-5-6-5-7-7-6-6	
3951-3960	7-6-5-4-6-6-5-6-5-7	
3961-3970	3-3-3-2-2-5-9-8-8-10	
3971-3980	8-9-7-8-10-10-10-9-9-9	
3981-3990	7-7-6-9-12-7-8-9-7-9	
3991-4000	7-8-7-5-7-5-7-8-7-7	
4001-4010	8-8-8-6-8-7-6-4-5-8	
4011-4020	7-8-14-5-5-5-7-8-7-7	
4021-4030	9-7-6-7-5-8-6-7-7-7	
4031-4040	7-6-7-8-10-9-7-8-6-7	
4041-4050	7-8-7-7-7-8-5-8-6-7	
4051-4060	7-8-6-7-7-8-12-8-10-7	
4061-4070	11-11-13-8-8-7-8-7-8-7	
4071-4080	5-6-5-6-6-4-5-4-5-4	
4081-4090	4-4-4-3-3-4-4-5-3-5	
4091-4100	4-5-5-5-9-7-6-6-6-8	
4101-4110	7-7-7-7-6-7-7-8-6-6	
4111-4120	5-6-8-9-7-9-6-5-8-7	Circ @ 4110'
4121-4130	6-6-6-11-7-8-8-8-8-9	
4131-4140	8-7-6-6-7-8-8-8-8-7	
4141-4150	8-10-6-5-8-9-8-9-9-10	
4151-4160	4-10-8-7-6-6-8-7-7-8	
4161-4170	9-9-7-9-7-9-10-7-9-9	
4171-4180	10-8-7-10-8-9-10-10-9-9	
4181-4190	10-9-8-9-11-10-12-12-13-6	
4191-4200	7-7-9-9-10-7-11-12-5-9	
4201-4210	10-10-9-9-10-10-10-10-10-10	
4211-4220	10-7-10-9-10-11-10-10-11-9	
4221-4230	10-10-11-11-10-9-5-9-8-10	
4231-4240	8-5-8-8-11-11-9-5-4-5	
4241-4250	9-9-8-7-7-6-8-8-6-8	
4251-4260	7-8-7-5-7-7-7-7-3-5	Circ @ 4258'
4261-4270	9-9-8-7-8-6-5-4-3-4	
4271-4280	3-2-5-6-8-6-8-7-5-5	
4281-4290	9-8-10-9-8-7-7-9-6-7	
4291-4300	7-8-8-7-8-6-6-5-5-7	

Bondurant # 1
NW/4 NE/4 Section 19-18S-23W
Ness County, Kansas

<u>Depth</u>	<u>Drilling Time</u>	<u>Remarks</u>
4301-4310	6-6-7-8-6-5-6-7-4-6	
4311-4320	4-5-5-6-8-5-6-5-5-4	
4321-4330	4-4-13-7-5-5-7-6-6-7	Circ @ 4330'
4331-4340	6-7-7-6-3-5-4-3-8-6	
4341-4350	7-4-5-5-5-4-3-3-1-2	Circ @ 4350'
4351-4360	1-2-2-1-3-3-2-2-5-14	
4361-4370	8-5-3-2-2-2-3-2-3-5	
4371-4380	4-4-3-4-2-3-1-1-1-2	
4381-4385	3-5-5-7-5	RTD, Circ 2 hrs.