

Grady Bolding Corporation
Grizzell #23
165' South & 110' West - W/2-E/2-NW
Section 31-17s-10w
Ellsworth County, Kansas
Page No. 1

Dry and Abandoned

Contractor: L.D. Drilling Company (Rig #1)
Commenced: April 20, 2001
Completed: April 26, 2001
Elevation: 1809' K.B.; 1806' D.F.; 1804' G. L.
Casing Program: Surface; 8 5/8" @ 359'
Production; None
Samples: Samples saved and examined 2500' to the Rotary Total Depth.
Drilling Time: One (1) foot drilling time recorded and kept 2500' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Formation Testing: There were two (2) Drill Stem Tests ran by Diamond Testing.
Electric Log: None.

Grizzell #23

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Topeka	2601	-792
Heebner	2850	-1041
Toronto	2870	-1061
Douglas	2881	-1072
Brown Lime	2965	-1156
Lansing	2987	-1168
Base Kansas City	3251	-1442
Conglomerate	3258	-1449
Arbuckle	3263	-1454
Rotary Total Depth	3270	-1461

(All tops and zones determinations were made from a correlation of Drilling Time Log and Sample Analysis.)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2729-2734' Limestone; tan to gray, finely crystalline, few granular, scattered porosity, no shows.

2780-2786' Limestone; gray to white, fossiliferous, sub oocastic, chalky, poor porosity, no shows.

2796-2806' Limestone; gray, fossiliferous, oocastic, fair fossil cast to oocastic porosity, chalky, spotty stain, trace of free oil (heavy-black) and no odor in fresh samples.

ORIGINAL

2814-2826' Limestone; brown to gray, fossiliferous, slightly chalky, no shows.

TORONTO SECTION

2872-2879' Limestone; gray to tan, fossiliferous in part, poor porosity, no shows, trace tan, sucrosic, dolomite and dolomitic limestone, no shows.

LANSING SECTION

2983-2989' Limestone; white to gray, fossiliferous, spotty stain, trace of free oil and no odor in fresh samples.

2994-3001' Limestone; white to cream, fossiliferous, chalky, fair brown to golden brown stain, show of free oil and faint odor in fresh samples.

3009-3018' Limestone; white to gray, oocastic, chalky, poorly developed oocastic porosity, brown stain, show of free oil (gassy) and faint odor in fresh samples.

3040-3047' Limestone; gray to tan, fossiliferous (oolitic) poor visible porosity, trace spotty stain, show of free oil and faint odor in fresh samples.

3055-3061' Limestone; white, fossiliferous, oocastic, fair porosity, dark brown to brown spotty stain, show of free oil and fair odor in fresh samples.

Drill Stem Test #1 **2967-3064'**

Times: 30-45-45-60

Blow: Weak to fair

Recovery: 15' gas in pipe
45' gas cut mud, with oil specks

Pressures: ISIP 264 psi
FSIP 260 psi
IFP 56-60 psi
FFP 58-65 psi
HSH 1445-1442 psi

3073-3080' Limestone; tan to gray, oolitic, cherty in part, spotty stain, weak show of free oil and no odor in fresh samples.

3081-3098' Limestone; tan to buff, oolitic, oocastic, chalky in part, trace spotty stain, no shows.

3122-3131' Limestone; white to tan, fossiliferous, sub oocastic, poor visible porosity, no shows.

3143-3150' Limestone; tan to gray, fossiliferous, chalky, spotty stain, no show of free oil or odor in fresh samples.

3160-3174' Limestone; white to tan, oolitic, oocastic, good oocastic porosity, trace dull gray to black spotty stain, no show of free oil or odor in fresh samples.

- 3197-3200' Limestone; gray to white, fossiliferous, chalky, no shows.
- 3209-3214' Limestone; white to gray to tan, fossiliferous, poorly developed porosity, no shows.
- 3232-3241' Limestone; gray to white, chalky, few fossiliferous, spotty light brown stain, no show of free oil and faint odor in fresh samples.

ARBUCKLE SECTION

- 3263-3267' Dolomite; white to cream, coarse crystalline, poor visible intercrystalline porosity, poor stain, trace of free oil and faint odor in fresh samples.
- 3267-3270' Dolomite; gray to white to cream, medium to coarse crystalline, golden brown spotty stain, weak show of free oil and faint odor in fresh samples.

Drill Stem Test #2 3245-3270'

Times: 30-30-45-45

Blow: Weak to strong

Recovery: 1' clean oil
80' oil specked muddy water
600' water

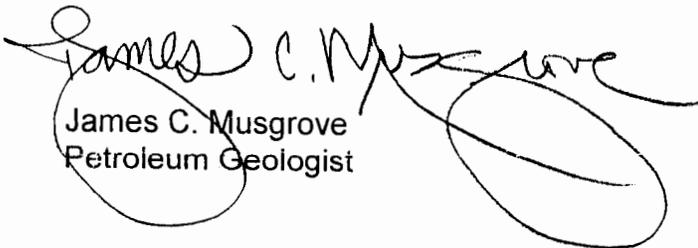
Pressures: ISIP 1091 psi
FSIP 1091 psi
IFP 18-158 psi
FFP 163-327 psi
HSH 1563-1548 psi

Rotary Total Depth 3270 (-1461)

Recommendations:

As the result of the negative Drill Stem Tests and there being no zones worthy of any further testing, it was recommended by all parties involved that the Grizzell #23 be plugged and abandoned at the Rotary Total Depth 3270 (-1461).

Respectfully submitted,


James C. Musgrove
Petroleum Geologist