

RELEASED

6-10-27W

Date: ~~Frontier Oil Company~~
FROM CONFIDENTIAL
~~1920 KSBOT Building~~
Wichita, Kansas 67202

Re: Frontier Oil Company
NO. 1 Goetz
Approx SEENE 6-105-27W
Sheridan County, Kansas

CONFIDENTIAL

Dear Sir:

The following is a Geological Report, with a Time Log attached, on the above captioned well.

Drilling was supervised from 3200' to 4132', rotary total depth. Samples were examined from 3200' to rotary total depth.

All formation tops, zones of porosity and staining are based on rotary bushing measurements. Any corrections in measurements during the drilling of the well have been incorporated into this report.

Elevation: American Elevations	2699DF--	2702KB
Anhydrite	2267	+ 435
Howard	3510	- 808
Topeka	3612	- 910
Heabner	3825	- 1123
Taranto	3845	- 1143
Lansing-Kansas City	3861	- 1159
Base of Kansas City	4104	- 1402
BT D	4132	- 1430

(1)

6-10-27W

Structurally, on top of the Howard, the No. 1 Goetz ran 3' lower than Frontier's Heirer, a dry hole, located approximately one half mile Southwest.

On top of the Topoka the No. 1 Goetz ran 5' lower than the No. 1 Heirer. On top of the Lansing the No. 1 Goetz ran 5' lower than the No. 1 Heirer.

ZONES OF INTEREST

HOWARD (Top 3510)

3516 to 3524

white to tan fine
crystalline lime with
no show of oil.

6-10-27W

3536 to 3542

Tan fine crystalline
lime with no show

3550 to 3558

Tan to grey fine
crystalline lime with
no show of oil.

TOPEKA (Top 3612)

3612 to 3618

Tan fine crystalline
to fossiliferous lime
with no show of oil

3634 to 3648

Tan fine crystalline
to sucrose lime with
good pin point porosity.
No show of oil.

3664 to 3676

Tan to grey fine
crystalline lime with
no show of oil.

6-10-27W

3685 to 3702

Tan fine crystalline
to fossiliferous lime
with no show of oil.

3762 to 3770

Tan fine crystalline to
fossiliferous lime with
no show of oil.

3780 to 3790

Tan fine crystalline
lime with no show of oil.

TORONTO (Top 3845)

3845 to 3854

Tan fossiliferous
to cherty lime with
no show of oil.

LANSING - KANSAS CITY (Top 3861)

3861 to 3872

white to tan
fossiliferous to
oolitic lime with
some inter oolite
porosity. No show of oil.

(4)

3898 to 3902

Tan fine crystalline
to oolite lime with
no show of free oil
no odor, trace black stain.

3919 to 3924

White dense to cherty
lime with some waxy
porosity trace black
fatty oil no show of
free oil, no odor,
trace black tarystain.

3558 to 3564

Tan well developed
oolite lime,
barren, no show
of oil

4000 to 4008

Tan fine crystalline
slightly dolomite
lime. No show of
free oil, no odor.

4026 to 4034

Tan fine crystalline
to dense lime with
no show of free oil
and no odor.

4064 to 4072

white to tan
fossiliferous lime
with no show of oil.

4088 to 4096

white medium
crystalline lime
with no show of oil.

Due to low structural position and negative
shows the Coate No. 1 was plugged on abandoned,
& dry hole.

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

JUL 14 1987

Sincerely,

Richard D. Parker

Richard D. Parker

DRILLING INFORMATION ON THE GOETZ NO. 1

Contractor: Red Tiger Drilling Co.

Drillers: Veatch

Tool Pusher: Mike Waggoner

Waggoner

Horns

Spud Date: June 5, 1987

Date of BTD: June 12, 1987

Surface Pipe: 8 5/8" @ 210'/150' Casing: None

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 6:30 AM on June 6, 1987

1761	Feet	At	7:00 AM	On	6-7-87
1761 (Down)	"	"	" "	"	6-8-87
2559	"	"	" "	"	6-9-87
3098	"	"	" "	"	6-10-87
3583	"	"	" "	"	6-11-87
4132	"	"	7:34 PM	"	6-12-87

6-10-27W

BIT RECORD

<u>Bits</u>	<u>Type</u>	<u>Footage</u>
No. 1	Wells-McDonald-52CF (New)	218 to 4032

MUD RECORD

MUD CO: HUGHES DRILLING FLUID Type: CHEMICAL

Surface: 15 sx gal, 4 sx balls, 3 sx lime

1290 - 1 sx balls

1761 - 4 sx balls

2912 - 25 sx gal, 15 sx balls, 1 sx lime, 1 sx soda ash

3433 - 45 sx gal, 7 sx soda ash, 6 sx cement, 8 sx lignite,
2 sx drispoc

3583 - 30 sx gal, 4 sx soda ash, 5 sx lignite, 4 sx cement
2 sx drispoc.

4069 - 20 sx gal, 1 sx cement, 1 sx lignite, 1 sx soda ash.