

P1
5-13-21W

GEOLOGICAL REPORT*

FRONTIER OIL COMPANY

SEIBEL NO. 1

SE NW NW Sec. 5-13S-21W
TREGO COUNTY, KANSAS

Commenced: August 18, 1984

Date of RTD: August 25, 1984

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SEP 20 1984

STATE CORPORATION COMMISSION
WICHITA, KANSAS

Steve D. Parker

SEP 24 1984

State Geological Survey
WICHITA, KANSAS

5-13-21W^{\$?}

Frontier Oil Company
1720 Kansas State Bank Building
Wichita, Kansas 67202

Re: Frontier Oil Company
No. 1 Seibel
SE NW NW 5-13S-21W
Trego County, Kansas

Dear Sir:

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

Drilling was supervised from 3100 ft. to 4030 ft., rotary total depth. Samples were examined from 3100 ft. to rotary total depth.

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

Elevation: (L&S)	2280 GL	2285 KB
Anhydrite	1732	(+ 553)
Tarkio	3170	(- 885)
Howard	3360	(-1075)
Topeka	3380	(-1095)
Heebner	3604	(-1319)
Toronto	3619	(-1334)
Lansing-Kansas City	3635	(-1350)
Base Kansas City	3903	(-1618)
Marmaton	3958	(-1673)
Cherty Conglomerate	3998	(-1713)
Conglomerate Sand	4025	(-1740)
RTD	4030	(-1745)

Structurally, on top of the Lansing-Kansas City the No. 1 Seibel ran 25 ft. lower than Hellar Drilling Company's No. 1 Deutscher, a dry hole located approximately three locations South and three locations East.

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5-13-21w
1 Seibel

ZONES OF INTEREST

TOPEKA (Top 3380 (-1095))

- 3380 to 3390 Light brown fine crystalline fossiliferous limestone with no show of oil.
- 3410 to 3416 Tan fine crystalline fossiliferous limestone with no show of oil.
- 3550 to 3555 Tan sucrosic fossiliferous limestone with no show of oil.
- 3571 to 3576 Tan fine crystalline to fossiliferous limestone with scattered pin-point porosity and no show of oil.

TORONTO (Top 3619 (-1334))

- 3619 to 3626 Light tan fine crystalline limestone with no show of oil.

LANSING-KANSAS CITY (Top 3635 (-1350))

- 3637 to 3641 Light tan fine crystalline oolitic to slightly oolitic limestone. Scattered spotted black oil staining, no show free oil, and no odor.
- 3675 to 3679 Tan sucrosic limestone with no show of oil.
- 3694 to 3698 Tan sucrosic, oolitic limestone. Trace dark spotted oil staining, no show free oil, and no odor.
- 3711 to 3714 Tan sucrosic limestone with scattered light oil staining, no show free oil, and a very faint odor.
- 3721 to 3725 Light tan chalky to oolitic limestone. Trace light spotted oil staining, no show free oil, and a very faint odor.

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5-13-21w
1 Seibel

- 3732 to 3736 Light tan sucrosic fossiliferous limestone with no show of oil.
 - 3774 to 3777 Tan fossiliferous sucrosic limestone with no show of oil.
 - 3799 to 3802 Tan fine crystalline limestone with no show of oil.
 - 3826 to 3830 Tan oolitic to fairly well developed oolitic limestone. Scattered dark spotted oil staining, no show free oil, and a very faint odor.
 - 3841 to 3844 Tan fine crystalline limestone with no show of oil.
 - 3862 to 3866 Tan fine crystalline limestone with no show of oil.
 - 3888 to 3891 Tan poorly developed oolitic limestone. Scattered dark spotted oil staining, no show free oil, and a very faint odor.
- BASE KANSAS CITY (Top 3903 (-1618))
- MARMATON (Top 3958 (-1673))
- 3958 to 3975 Orange to white sharp to weathered chert. Scattered spotted oil staining, slight show free oil, and no odor.
- CONGLOMERATE SAND (Top 4025 (-1740))
- 4025 to 4028 Coarse grained, frosted, well-cemented sandstone with no show oil.

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WISCONSIN

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5-13-21W
1 Seibel

ROTARY TOTAL DEPTH AT 4030 (-1745)

Due to low structural position the No. 1 Seibel was plugged and abandoned, a dry hole.

Sincerely,

Steve D. Parker
Steve D. Parker *ss*

SDP:ss

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5-13-2/w

DRILLING INFORMATION ON THE NO. 1 SEIBEL

Contractor: Red Tiger Drilling Rig #2

Drillers: Kerns
Waggoner
Knouf

Tool Pusher: Mike Waggoner

Spud Date: August 18, 1984

Date of RTD: August 25, 1984

Surface Pipe: 8-5/8" @ 242' w/160 sx cmt

Casing: None

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 7:30 A.M. On August 20, 1984

	Feet	At	7:00 A.M.	On	
2060					August 21, 1984
2826	"	"	" "	"	August 22, 1984
3355	"	"	" "	"	August 23, 1984
3608	"	"	" "	"	August 24, 1984
3950	"	"	" "	"	August 25, 1984
4030	"	"	4:14 P.M.	"	August 25, 1984

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1 seibel

BIT RECORD

<u>BITS</u>	<u>TYPE</u>	<u>FOOTAGE</u>
No. 1	Hughes R2	251' to 2042'
No. 2	Rock Bit Industries CJ2X	2042' to 3435'
No. 3	Reed FP52D	3435' to 4030'

MUD RECORD

(Mud-Co)

Surface:	25 sx aquagel, 3 sx hulls, 1 sx lime
1233'	6 sx hulls
3100'	50 sx saltgel, 26 sx hulls
3355'	18 sx saltgel, 40 sx starch, 3 sx preservatives
3608'	102 sx saltgel, 5 sx premiumgel, 39 sx hulls, 22 sx starch
3950'	40 sx saltgel, 5 sx premiumgel, 9 sx hulls

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