

WELL NAME: VISSER #1  
SE SE NW Sec 3, T5S-R13E  
API NUMBER: 15-131-20,137  
OPERATOR: Incline Reserves, Inc. TEL: 913-267-5033  
1607 SW 37th St., Topeka, KS 66611  
CONTRACTOR: Glacier Drilling Company, Inc. TEL: 316-343-2742  
P. O. Box 1509, Emporia, KS 66801  
TOOLPUSHER: Dennis Leftwich TEL: 316-438-2542  
Burden, KS TEL: \_\_\_\_\_  
RIG # 1 MBL TEL: 273-4660(Topeka) Unit 7430  
DAILY DRILLING REPORTS: Daily By 8:30A Mon-Fri (913) 267-5033/Sat & Sun 8:30A  
(913) 862-2522 or 913-478-3904  
SURFACE CASING: Size 8 5/8" Depth 360' Supply Co. A & W Supply  
STRAP WELD SURFACE CASING.  
CEMENTING: Consolidated Oil Well Services TEL: 913-242-4044  
Ottawa, KS TEL: \_\_\_\_\_  
TEL: \_\_\_\_\_  
MUD: Trotter International TEL: 913-235-5858  
913-232-7228  
 Hunton formation can be severe lost circulation zone. By 3000' have LCM concentration no less than 6-8 # per bbl. As needed to keep from sticking pipe to 2650'. Gel Mud @2650'  
In Shape to test directed. AFTER MUD-UP, As Directed.  
VISCOSITY 34 WATER LOSS 10 or less WT 9.0 - 9.2  
Check mud at flowline. After Mud-up, Keep record of wt, vis, & fld loss every hour until Geologist or mud engineer shows up.  
SUPPLY CO: Whirlwind Supply, El Dorado, KS TEL: 316-321-9285  
or A & W Supply, Great Bend, KS TEL: 316-792-7301  
GAS DETECTOR: NONE TEL: \_\_\_\_\_  
TESTING: Western Testers, Augusta, KS TEL: 316-775-5171  
LOGGING: Log-Tech, Topeka, KS TEL: 913-232-6624  
CURVES: Dual Ind., Comp. Dens/Neutron TEL: \_\_\_\_\_  
SHOWS: ck. all samples for odor & note all shows on geograph  
If a show of oil or gas is encountered at any depth, start circulating, catch a wet sample immediately and call Geologist; then catch 15,30,45 and 60 minute wet samples.  
DRILLING TIME: Start one foot at 1400', to TD 3950  
SAMPLES: Start 20' foot at 360', to 1400  
Start 10' foot at 1400', to TD 3950'±  
Catch wet samples. Tie spls. in 100' bundles. Bring Geologist wet samples. Insure sample box is thoroughly cleaned after each catch.  
ELEVATION: KB 1370 (est) DF \_\_\_\_\_ GL 1365 (est)  
ESTIMATED TOPS: Tarko @ 630', Lsg @ 1430', Kindhk @ 2760', Hunton @ 2995, Viola @ 3680'  
MEASUREMENT: Strap pipe first trip below 1400' & as directed  
WELLSITE GEOLOGIST: Name Greg Owen Off Tel: 913-267-5033  
or Steve Owen Res Tel: 478-3904 Res Tel: 913-862-2522  
OPERATOR'S STAFF  
GEOLOGIST: Name Greg Owen Off Tel: 913-267-5033  
Res Tel: 913-862-2522  
CALL GEOLOGIST: Depth 1350' as directed. Also, w/moring rpts. if no answer. @ office  
STOP DRILLING: Depth 3650', If geologist is not present.  
MISC:

TO: Steve Owen, President  
Incline Reserves, Inc.

DATE: March 9, 1988

FROM: Greg Owen

SUBJECT: Wellsite Geologic Report  
Visser No. 1  
SE SE NW Sec 3, T5S-R13E  
Nemaha County, Kansas

The following information summarizes the data compiled while drilling the captioned well. A Drilling Time & Sample Log has been retained in Incline's files and is available for review.

CONTRACTOR: Glacier Drilling Co., Rig No. 1

COMMENCED (Drilling): February 20, 1988

COMPLETED (Testing): March 3, 1988

CASING: Surface - 8 5/8" @ 387' w/225 sx. Reg. cmt. 3% CaCl.  
Production - None set, D & A

ELEVATION: 1363' - Ground Level  
1369' - K.B. (Datum)

TOTAL DEPTH: 3940' - Drillers' Measurements  
3938' - Loggers' Measurement (Dual Induction)

CORRELATIVE FORMATION DEPTHS FROM DUAL INDUCTION ELECTRIC LOG:

<u>Formation Name</u>	<u>Depth</u>	<u>Subsea</u>	<u>Comment</u>
Tarkio Lime	627	+ 742	-----
Lansing Group	1427	- 58	NSN
Base of Kansas City Group	1796	- 427	NSN
Mississippi Unconformity	2698	- 1329	NSN
Mississippi Lime	2732	- 1363	NSN
Kinderhook Shale	2780	- 1411	-----
Hunton	3010	- 1641	NSN
Maquoketa Shale	3628	- 2259	NSN
Viola	3690	- 2321	* Show oil/wtr, See DST's
Simpson Formation	3812	- 2443	NSN
Simpson Sand Porosity	3903	- 2534	WET, faint show
Pre-Cambrian/Granite	NDE	NDE	-----

NSN = No show of hydrocarbons noted

\* = Show of hydrocarbons

\*\* = Good show with production potential indicated by logs &/or DST results

NDE = Not deep enough

DESCRIPTION OF PRIMARY ZONE OF INTEREST:

1. Viola @ 3693'-3703'.....Dolomite, tan/white/gray, dense XLN in part, limey/amorphous. Grading into medium/ coarse XLN, sub-hedral to rhombic, exhibiting good vugular porosity. Interbedded w/denser, amorphous material & included w/heavy gray minerals, trace pyrite. Weak odor, faint fluor, trace free oil, fair cut in CCl<sub>4</sub>. Med./ light brown stain around most vugs after drying, but not all.
- $\phi_x$ -plot = 8.5 - 14.5%  
 $R_t = 50-53$  ohms,  $R_w = .025$   
 (assumed)  
 $S_w = 46-82\%$   
 Good permeability indicated by DST's (2) & (3)

DRILL STEM TESTS: (All intervals adjusted to log depths)

- DST (1), Viola @ 3666'-3692'.....Tool opened w/weak blow, decreasing gradually throughout IFP; no blow during FFP. Recovered 3' free oil, 27' sli. oil cut mud (5% oil). B.H.T. = 114°F.
- |               |        |
|---------------|--------|
| IFP (65 min)  | 35-38# |
| FFP (30 min)  | 44-44# |
| ISIP (30 min) | 1184#  |
| FSIP (63 min) | 1198#  |
| IHP           | 1807#  |
| FHP           | 1744#  |

- DST (2), Viola @ 3690'-3696'.....Fair blow throughout test. Recovered 60' free oil (Gravity = 34°). Recovered 510' sli. oil cut mud. (Chlorides = 16,000 ppm). B. H. T. = 114°F.
- |               |          |
|---------------|----------|
| IFP (60 min)  | 42-159#  |
| FFP (60 min)  | 195-257# |
| ISIP (33 min) | 1138#    |
| FSIP (63 min) | 1191#    |
| IHP           | 1752#    |
| FHP           | 1730#    |

- DST (3), Viola @ 3696'-3703' (Straddle after logs)..Strong blow throughout test. Recovered 62' clean oil (Gravity = 31°); 155' oil cut water (20% oil, 80% wtr.); 527' water (Chlorides = 10,100 ppm). B.H.T. = 118°F.
- |               |          |
|---------------|----------|
| IFP (65 min)  | 45-223#  |
| FFP (30 min)  | 278-319# |
| ISIP (30 min) | 1141#    |
| FSIP (60 min) | 1179#    |
| IHP           | 1802#    |
| FHP           | 1778#    |

SUMMARY/RECOMMENDATIONS:

The Visser No. 1 ran structurally low on the Viola to its offset producers on the Hill lease as a result of a thickening interval from the Lansing top to the Viola payzone. A hole deviation of approximately four degrees was noted consistently throughout the latter stages of drilling and could have accounted for as much as five feet of this extra interval.

SUMMARY/RECOMMENDATIONS contd.

The structural and isopachous relationships between the Visser and its nearest offsets are noted as follows:

<u>FORMATION</u>	<u>VISSER #1</u>	<u>HILL #2</u>	<u>HILL #3</u>	<u>INTERVAL</u>	<u>VISSER #1</u>	<u>HILL #2</u>	<u>HILL #3</u>
Lansing	- 58	- 61	- 54	Lsg/Kh	1353	1327	1328
Kinderhook	- 1411	- 1388	- 1383	Kh/V	910	922	921
Viola	- 2321	- 2310	- 2303	Lsg/V	2263	2249	2249

Although the top of the Viola was tight, good to very good porosity was encountered 8-12' into the zone, as shown on the Neutron/Density Log interval @ 3698'-3702'. This zone was tested in the open-hole (see DST #3), recovering 10-12% oil with water.

On account of the risk of a successful completion, combined with the additional costs required to set up a new tank battery, the operator declined to run casing in the Visser well and it was plugged accordingly.