Computer Inventoried

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RUSSELL, KANSAS 67665
Bus. 913-483-3020 Res. 913-483-3496

10-7-19W



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JAN 22 1992

SHIELDS OIL PRODUCERS, INC.

Russell, Kansas

API 15-163-23189

GEOLOGICAL REPORT

Graham No. 2

C S/2 SE SW of Section 10

Twp. 7 South, Rge. 19 West

Rooks County, Kansas

December 19, 1991

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 13 1992

CONSERVATION DIVISION
WICHITA, KS

Shields Oil Producers, Inc.
Box 709
Russell, Kansas 67665

Geological Report:	Graham No. 2 C S/2 SE SW of Sec. 10, 7 S, 19 W Rooks County, Kansas
Drilling Contractor:	Shields Drilling Co., Inc.
Drilling Commenced:	December 11, 1991
Drilling Completed:	December 19, 1991
Casing Record:	8 5/8" surface casing set at 218' with 150 sx
Samples:	Saved and examined from 2900' to 3478', RTD. Zones of interest are described in this report.
Drilling Time:	Recorded and plotted from 2900' to 3478', RTD. A copy of the drilling time/lithology log is included with this report.
Drillstem Tests:	3 by Swift Formation Testers
Electric Logs:	None

Elevations:		
	Kelly Bushing:	1978'
	Ground Level:	1973
	Measurements From:	K. B.

Formations:	Depths:	Datums:
Anhydrite	1491-1524	+ 487
Topeka Lime	2934	- 956
Heebner Shale	3134	-1156
Toronto Lime	3156	-1178
Lansing-Kansas City	3175	-1197
Base of Kansas City	3393	-1415
Conglomerate	3450	-1472
Total Depth	3478	-1500

Lithology; Zones of Interest & Test Data:

Topeka Lime:

3088-3097: LS-white, some buff, fine oolicastic and pin point porosity. Rare dark and dead oil stain. No free oil or odor.

3106-3111: LS-white, buff, light gray, dense to fine oolicastic with pin point porosity. Scattered dark and dead oil stain. No free oil or odor.

Toronto Lime:

3156-3159: LS-white, fine crystalline and slight vuggy with white vitreous chert. Scattered light oil stain in slight vuggy porosity. No free oil or odor. Tested by DST #1.

DRILLSTEM TEST No. 1: 3132 to 3165: 30-45-30-45 with weak blow decreasing

Recovery:	5' of mud with spots of oil		
IFP:	25-25	IBHP:	84
FFP:	33-33	FBHP:	42

Lansing-Kansas City:

3175-3180: LS-white, dense to oolitic with slight to fair inter-oolitic
A zone porosity. Some white chert. Scattered light oil stain with faint gassy odor. Tested by DST #2.

DRILLSTEM TEST No. 2: 3166 to 3190: 30-45-30-45 with weak blow, dead in minutes on second open period.

Recovery:	5' Mud		
IFP:	33-33	IBHP:	303
FFP:	33-33	FBHP:	294

3214-3220: LS-white, some light gray, dense to chalky and some oolitic with
B zone rare light oil stain. Poor porosity and no free oil or odor.

3234-3246: LS-white, light gray, dense with trace of stain. No porosity
C zone and no free oil or odor.

3250-3258: LS-gray, buff, white, dense and some sucrosic with trace of
D zone dark stain. No porosity, no free oil or odor.

4261-3263: LS-white, some buff, dense, crystalline and part oolitic and
F zone fossiliferrous with rare stain, slight odor. Tested water on Graham No. 1.

Lithology & Test Data, cont...

3272-3284: G zone — LS-white, dense to slight vuggy with trace of stain and faint odor. This zone tested water on Graham No. 1.

3306-3322: H zone — LS-white, buff, dense crystalline with trace of stain in trace of crystalline porosity. No free oil or odor.

3328-3340: I zone — LS-buff, light gray, very dense with some fossil porosity, streak from 3331-33. Rare light stain with no free oil or odor. Tested by DST #3.

3346-3350: J zone — LS-white, buff, oolitic-oolicastic to dense with scattered light oil stain and fair porosity. Faint odor. Tested by DST #3.

DRILLSTEM TEST No. 3: 3323 to 3360: 30-45-30-45 with weak blow increasing

Recovery:
40' of gas
5' of free oil
15' of oil cut mud

IFP:	25-33	IBHP:	361
FFP:	42-42	FBHP:	143

3370-3382: K zone — LS-white, some buff, fine crystalline, dense, with some oolitic lime. Trace of stain with no free oil or odor.

Marmaton:

3436-3460: LS & DOL-white, fine crystalline, dense with some pink dolomitic lime. Abundant dead oil stain, with no free oil or odor.

Remarks & Recommendations:

The following table compares the Graham #2 with the Graham #1, a producing well:

	Graham #2	Graham #1
Anhydrite	+ 487	+ 482
Topeka	- 956	- 949
Heebner Shale	-1156	-1152
Lansing-Kansas City	-1197	-1191
Conglomerate	-1472	-1433?
Arbuckle	none	none
Total Depth	-1500	-1502

You will note that on top of the LKC, the Graham #2 ran lower than the Graham #1. Numerous zones of oil staining were noted but were not of commercial quality. Zones that appeared to have some value were tested by drill stem test and the results were negative. Because of the lower structural position and the negative test results, it was decided that the Graham #2 should be plugged and abandoned as a dry hole.

Respectfully submitted
Francis C. Whisler
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