james r. crai

PETROLEUM CONSULTANT

GRIGINAL

GEOLOGICAL REPORT

JUN 2 8 1996

OPERATOR:

PETROLEUM RESOURCES LTD.

P.O. BOX 467

NEWKIRK, OKLA 74647

WELL

SOEKEN # 1

API# 15-009-24585

LOCATION:

1825' FNL.. 1075' FWL.

SECTION 30 T 20S R11W BARTON COUNTY, KANSAS

CONTRACTOR:

DUKE DRILLING RIG 2

WICHITA, KANSAS

DATE SPUD:

OCTOBER 14, 1994

DATE COMPLETE:

OCTOBER 19, 1994

SURFACE CASING:

265' 8 5/8" CASING CEMENTED

WITH 200 SACKS 60/40 POZMIX

PRODUCTION CASING: NONE

STATE

MAR & COT

ZONES DST:

ARBUCKLE

Garage Control of the Control of the

ELECTRIC LOGS:

WIRE-TECH GUARD, DUAL

INDUCTION & COMP DEN/NEUTRON

STATUS:

DRY & ABANDONED

Rt. 1, Box 161E/Winfield, KS 67156/316-221-0891/Mobile 316-782-3231

Petroleum Resources Ltd. P. O. Box 467 Newkirk, Okla. 74647

RE: Soeken # 1

1825' FNL/ 1075FWL Sec 30 T 20.s R 11.w Barton County, Kansas

Dear Sirs:

The above captioned well was under my geological supervision from a depth of 3000' to a total depth of 3480'. Drilling time and samples were saved from 3000' to TD. All samples were checked with the black light and microscope for shows of hydrocarbons. Good shows of oil were observed in the Arbuckle Formation at a depth of 3382', however drill stem testing and electric log condemmened this zone, due to lack of permeability. The subject well would not be commercial and was plugged October 19, 1994.

FORMATION TOPS

E-LOG ELEVATION: 1826 KB

(All measurements from Kelly Bushing)

	DEPTH	SUB SEA
Anhydrite	586	+1240
Heebner	3002	- 1176
Brown Lime	3134	-1308
Lansing	3148	-1322
Base Kansas City	3374	-1548
Arbuckle	3382	-1556
RTD	3480	-1654

SAMPLE DESCRIPTIONS

Pertinent Zones

LANSING/KANSAS CITY 3148 (-1322)

3164-3167 Limestone. White to Gray, dense, with some

oomoldic barren porosity. <u>WEAK SHOW</u> E-Log 7-8% porosity, 71-84% Salt Water

3317-3321 Limestone, Cream to Tan dense crystalline

fossiliferous, pin point porosity. NO SHOW

E-Log 7% porosity, 71% Salt Water

ARBUCKLE DOLOMITE 3382 (-1556)

3382-3391 Dolomite, Tan to Brown, granular, colitic to

oomoldic, Fair odor, light brown stain, 30% yellow fluorsence, fair show free oil, instant

blue cut.

E-Log 18% porosity, 62# Salt Water

DST # 1 3383/3391 IF: Weak Blow throught (1/2"-3/4")
FF: Weak surface Blow, died in 16". Recovered 15' Slightly oil cut mud. (2% oil 98% mud) IF 41#/30" ICIP 520#/60" FF 41#/30" FCIP 62#/60"

3391-3405 Dolomite. Light Tan to Dark Brown, granular

vuggy, oomoldic, fractures, Light oil stain, some asphaltic, good odor, good show free

40% yellow fluorsence, slow blue cut. E-Log 13% porosity, 60% Salt Water

DST # 2 3391/3405 iF: Weak Blow throught (1/4" to surface) FF: No Blow, recovered 5' slightly oil cut mud (1%oil 99% mud) IF 31#/30", ICIP 62# 60" FF 31#/10".

DAILY DRILLING PROGRESS

10-14-94	Move in , rig up set 265' 8 5/8" surface casing with
	160 sacks 60/40 pozmix. plug down @ 4:45 AM
10-15-94	Drilling @ 1857', Jet @ 1554.
10-16-94	Drilling @ 2665' Jet @ 2456 & 2641
10-17-94	Drilling @ 3212' Displaced @ 2796
10-18-94	Depth 3405, Run DST # 1
10-19-94	RTD 3480', Run DST # 2 & logged, plug hole

MUD CHECKS

Date	Depth	Wt. Vi	s. Fil.	Chlorides
10-17-94	2995'	8.81 3	9 12.8	8 2500
10-18-94	3391	9.51 6	8.8	2000
10-19-94	3480	9.41 4	5 12.8	5 000

Due to the negative results of the Drill Stem Test's and the Electric Log analysis ,the subject well was plugged on 10-19-94.

ames R. Craig