

35-16-1148
JWB

DRILLER'S WELL LOG X

DATE COMMENCED: October 20, 1984
DATE COMPLETED: October 26, 1984

Nat'l Petroleum Reserves, Inc.
HOMOLKA A-1
C N/2 NW NE
Sec. 35, T16S, R11W
Barton County, Ks.

ELEVATION: 1920 K.B.

FORMATION DATA

0 - 722'	Surface Soil, Clay, Sand Red Bed
722 - 751'	Anhydrite
751 - 2624'	Lime & Shale
2624 - 2646'	Lime
2646 - 2661'	Shale & Sand
2661 - 2956'	Lime
2956 - 2960'	Shale
2960 - 2973'	Lime & Shale
2973 - 2985'	Lime
2985 - 3054'	Shale
3054 - 3069'	Lime & Shale
3069 - 3311'	Lime
3311 - 3368'	Shale, Lime, Chert, Sand
3368 - 3425'	Dolomite
3425'	RTD

Anhydrite	722'
Howard	2624'
Severy	2646'
Topeka	2661'
Heebner	2956'
Toronto	2973'
Douglas	2985'
Br. Lime	3054'
Kansas City	3069'
Base K.C.	3311'
Conglomerate	3334'
Arbuckle	3368'
RTD	3425'

Surface Pipe: Set used
8-5/8", 28# pipe @375' w/185
sacks 60/40 pozmix 2% gel 3% cc.

Production pipe: Set used
14#, 5 1/2" @3420' w/100 sacks
common 2% gel, 310% salt.

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State Geological Survey
WICHITA BRANCH

AFFIDAVIT

STATE OF KANSAS
COUNTY OF BARTON) ss

Leonard Williamson of lawful age, does swear and state that the facts and
statements herein are true and correct to the best of his knowledge.

Leonard Williamson

Subscribed and sworn to before me this 31 day of October 1984.



★
Howell Crenshaw
Consulting Geologist
105 North Nevada Wichita, Kansas 67212

35-16-11W

find

GEOLOGICAL REPORT
November 6, 1984

Re: National Petroleum Reserves, Inc.
#1 Homolka "A"
CN/2 NW NE
Section 35-16-11W
Barton County, Kansas

5½" Production Casing Set

CONDITION OF LEASE: Plowed field

CONTRACTOR: Duke Drilling Co., Rig 1

COMMENCED: 10-19-84

COMPLETED: 10-25-84

ELEVATIONS: 1920'K.B., 1917'D.F., 1915'G.L.

CASING PROGRAM: Surface: 8 5/8" @ 340'
Production: 5½" @ 3424'

SAMPLES: Samples examined from 2600'
to the R.T.D.

MEASUREMENTS: All depths measured from the
kelly bushing

FORMATION TESTING: One (1) test run by Western Testing
Co., Inc., (Dennis Wondra)

ELECTRIC LOG: By Electra Log, Inc.
Radiation Guard Log
Compensated Density

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Wichita, Kansas

National Petroleum Reserves, Inc.
 #1 Homolka "A"
 CN/2 NW NE
 Section 35-16-11W
 Barton County, Kansas

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>ELECTRIC LOG TOPS</u>	<u>SUBSEA DATUM</u>
Heebner	2956	2952	-1032
Toronto	2975	2972	-1052
Douglas	2985	2984	-1064
Brown Lime	3055	3054	-1134
Lansing	3069	3066	-1146
Base/Kansas City	3311	3310	-1390
Conglomerate	3334	3333	-1413
Arbuckle	3368	3369	-1449
R.T.D.	3425		-1505
L.T.D.		3426	-1506

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

(All samples are corrected to the electric log measurements)

PLATTSMOUTH SECTION

2916-2922 Limestone, cream, light gray, finely crystalline, trace of fossil cast and pin point porosity, no odor, spotty brown stain, weak show of free oil.

TORONTO SECTION

2972-2984 Limestone, cream, finely crystalline, scattered pin point porosity, no odor, spotty brown stain, weak show of free oil.

LANSING SECTION

3102-3106 Limestone, light gray, oolitic, poorly developed oolitic porosity, no odor, spotty brown stain, weak show of free oil.

3168-3182 Limestone, light gray, oolitic, good oolitic porosity, no show.

3248-3252 Limestone, light gray, oolitic, good oolitic porosity, no show.

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National Petroleum Reserves, Inc.
#1 Homolka "A"
CN/2 NW NE
Section 35-16-11W
Barton County, Kansas

ARBUCKLE SECTION

3369-3373

Dolomite, light gray, finely crystalline,
scattered intercrystalline porosity, strong
odor, spotty brown stain, good show of free oil.

DRILL STEM TEST #1 3345-3373

Arbuckle
45-60-30-60

Blow: Weak, steady
Recovery: 120' heavy oil and gas cut mud
180' gassy muddy oil
Pressures: SIP: (1090-1101)
(P.S.I.) FP: (64-107) (129-150)
HSH: (1881-1871)
Temp. 115°F

3374-3392

Dolomite, light gray, finely crystalline,
weak odor, spotty brown stain, weak to fair
show of free oil.

3398-3425

Dolomite, light gray, finely crystalline,
scattered intercrystalline porosity, trace
of odor, trace of spotty brown stain,
trace of free oil.

ROTARY TOTAL DEPTH 3425' (-1505)

RECOMMENDATIONS:

On the basis of electric log calculations and the results of D.S.T. #1,
it was recommended that 5½" casing be set and cemented and the #1 Homolka "A"
be completed for production from the Arbuckle Dolomite.

Respectfully submitted,

Howell Crenshaw

Howell Crenshaw

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