

ROBERT D. GENSCH. PETROLEUM GEOLOGIST

RES. PHONE MU 3-7108

913 CENTRAL BLDG.

WICHITA 2, KANSAS

PHONE AM 5-3841

NATIONAL PETROLEUM

MADDIX #1

C NE NE SECTION 9-31S-13W

BARBER COUNTY, KANSAS

BY

Robert D. Gensch
Petroleum Geologist

Mr. Ralph Hamilton
National Petroleum Co.
501 1st National Bank Bldg.
Wichita, Kansas

Re: National Petroleum #1 Maddix
C NE NE Section 9-31S-13W
Barber County, Kansas

The following is a geological report on the captioned well. Included in this report are all remarks and information considered pertinent to the drilling of the well. Samples were examined from 3600' to 4505' and the well was under geological supervision from 3600' to 4507 RTD.

Commenced: 7-24-61

Contractor: Fortune Oil & Gas Company

Completed: 8-10-61

Surface Casing: 8 5/8" @ 309' w/225
sacks.

GEOLOGICAL MARKERS

Elevation: 1699 R.B.
1694 Gr.

	<u>Sample Top</u>	<u>Electric Log Top</u>
Heebner	3624 (-1925)	3624 (-1925)
Douglas	3680 (-1981)	3678 (-1979)
Lansing	3810 (-2111)	3811 (-2112)
Massey	4256 (-2557)	4258 (-2559)
Mississippi	4292 (-2593)	4306 (-2607)
Kinderhook	4383 (-2684)	4384 (-2685)
Misener	4446 (-2747)	4448 (-2749)
Viola	4474 (-2777)	4474 (-2777)
RTD	4505 (-2806)	4507 (-2808)

Note: Sample tops correlated closely to electric log tops with the exception of the Mississippi. Because Mississippi type chert and limes were found in dense drilling from 4290-4300 it is believed the true top of Mississippi is found @ 4288'. From strictly an electrical log evaluation the top appears to be found @ 4306'. See description below.

DESCRIPTION OF ZONES OF POROSITY & LITHOLOGY

Douglas

3792-98

White medium grained glauconitic and micaceous sandstone, fair porosity, no show. Appeared wet from samples and electric log.

Lansing

3863-70

Poorly developed fossiliferous limestone, poor porosity, no show observed.

Lansing - cont.

- 3930-40 White granular and chalky limestone, porous granular lime, no odor, free oil or staining observed.
- 3963-70 Tan oolitic limestone, fair porosity, no shows observed.
- 4026-36 Tan oolitic limestone, good porosity, no free oil, odor, or stain noted.
- 4081-90 Poorly developed oolitic porosity in fossiliferous limestone, fair porosity, no shows observed.
- 4132-40 Tan oolitic limestone, fair porosity, no shows observed.

Massey

- 4258-62 Poorly developed fossiliferous limestone very poor porosity, trace gas in wet samples, no staining noted. Tested in DST #1.

DRILL STEM TEST #1

- 4241-67 Open 40 min. weak blow 4 min., flushed tool, recovered 55' mud. 30 min. IBHP - 60#; IFP - 30#; 30 min. FBHP - 45#; FFP - 40#.

Mississippi

- 4288-4302 White to smoke colored chert with abundant tan dense crystalline cherty limestone trace dead oil staining in white chert. Electric log and samples indicate no reservoir present.
- 4306-12 Dolomitic and cherty limestone, no reservoir indicated.
- 4324-47 White sharp opaque chert, only slightly weathered, no shows observed.

Kinderhook

- 4384-4448 Gray to gray-green and black shale with streaks dense limestone.

Misener Sand

- 4448-52 White medium grained sandstone, pyritic on top to shaley at base, fair porosity, trace gilsonitic stain, light discoloration in dry samples, very slight trace odor; Judged no value by electric log and samples.
- 4462-74 White marly shale occasional, piece chert.

Viola

- 4474-86 White to mottled medium crystalline dolomite some vugular and intercrystalline porosity, no odor, free oil or stain noted.
- 4486-4507
RTD Medium crystalline dolomite, cherty in part, dense with streaks fair to good barren porosity, no stain observed.

Structural Comparison:

	<u>#1 Maddix</u>	<u>Aurora #1 Ketner</u> <u>NE c SE Sec 9-31S-13W</u>
Heebner	(-1925)	(-1927)
Lansing	(-2111)	(-2113)
Massey	(-2547)	(-2547)
Mississippi	(-2593)	(-2596)
Kinderhook	(-2684)	(-2692)
Misener	(-2747)	--
Viola	(-2777)	(-2786)
R T D	(-2806)	(-3043)

DISCUSSION

All zones having men't were tested by drill stem test #1 or were condemned by samples and electric log evaluation.

The Massey formation was tight from sample examination and from electric log analysis and did not have reservoir qualities necessary for production in this well. The Ketner dry hole 1/2 mile south had a much better sample show and electric log characteristics.

The Mississippi chert section on top was replaced with a dense cherty lime and did not have the show the Ketner dry hole had when it was drilled.

The Misener sand found in this well had too thin a section and too poor a show in samples to warrant further testing.

Because there were no commercial zones found that were good enough to warrant further testing by pipe, there was no alternative but to plug and abandon the hole at 4507'. Permission to plug the well was given the undersigned after electric log was run by National Petroleum, Sunray, Stickle Drilling and Gulf Oil Corp.

Respectfully submitted,



Robert D. Gensch,
Petroleum Geologist

RDG:pc

National Petroleum
 #1 Maddix
 C NE NE Sec. 9-31S-13W
 Barber County, Kansas

DEPTH RECORD

<u>Date</u>	<u>Depth 7 a.m.</u>	<u>Remarks</u>
7-24-61	0	Spud
7-25-61	485	
7-26-61	1330	
7-27-61	1330	WOC
7-28-61	1780	
7-29-61	2075	
7-30-61	2415	
7-31-61	2715	
8-1-61	3155	
8-2-61	3450	
8-3-61	3690	
8-4-61	3878	
8-5-61	4072	
8-6-61	4188	
8-7-61	4267	DST #1
8-8-61	4366	
8-9-61	4470	

BIT RECORD

<u>Bit #</u>	<u>Make</u>	<u>Type</u>	<u>From</u>	<u>To</u>
1	RR		0	309
1	HTC	OSC-3A	309	1705
2	Smith	T2	1705	1855
3	HTC	OWV	1855	2164
4	Reed	YSI	2164	2505
5	Reed	YTL	2505	2965
6	Reed	YTIA	2965	3450
7	Reed	YTL	3450	3787
8	Reed	YST	3787	3962
9	Reed	YST	3962	4150
10	Reed	YST	4150	4267
11	Reed	YH	4267	4350
12	Reed	YII	4350	4412
13	Reed	YSI	4412	4505

National Petroleum
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 Barber County, Kansas

TIME LOG

<u>From</u>	<u>To</u>	<u>Minutes</u>	<u>Remarks</u>
3010 -	3020	2-1-2-1-2-2-2-2-2-2	
	3030	2-3-3-2-2-2-2-3-2-2	
	3040	2-1-2-2-1-2-2-1-2-2	
	3050	2-1-2-2-2-2-2-2-2-2	
	3060	1-1-1-2-2-2-1-2-1-2	
	3070	2-2-2-2-2-1-1-1-2-2	
	3080	2-3-3-2-2-3-2-2-1-2	
	3090	2-1-1-1-1-1-2-2-2-2	
	3100	2-2-2-3-2-2-2-2-1-2	
3100 -	3110	3-1-2-1-1-1-2-1-1-2	
	3120	1-1-2-2-2-2-2-2-2-2	
	3130	2-1-2-2-2-1-1-1-1-1	
	3140	1-2-2-1-1-2-2-2-2-2	
	3150	3-2-2-1-2-1-1-1-1-2	
	3160	2-2-2-1-2-2-2-1-2-2	
	3170	1-1-2-2-1-2-2-2-3-3	
	3180	3-2-2-2-2-2-2-2-2-3	
	3190	3-3-2-3-2-3-1-1-1-1	
	3200	1-1-1-1-1-1-1-2-3-2	
3200 -	3210	3-2-1-2-2-3-3-3-3-4	
	3220	2-4-5-5-4-5-5-6-4-5	
	3230	4-5-5-6-4-4-8-5-2-2	
	3240	2-3-3-3-4-4-5-6-4-4	
	3250	3-4-5-6-5-5-5-4-5-4	
	3260	4-5-5-5-5-5-6-5-5-4	
	3270	5-5-4-5-5-6-6-6-5-4	
	3280	3-3-3-3-3-3-3-4-3-3	
	3290	2-4-3-2-3-3-3-3-3-3	
	3300	4-3-4-3-3-4-3-3-4-3	
3300 -	3310	4-4-4-4-4-3-4-4-3-3	
	3320	4-3-3-3-3-3-3-3-3-3	
	3330	3-4-4-4-4-4-4-5-5-6	
	3340	6-7-7-7-7-7-7-6-6-6	
	3350	6-7-7-7-7-7-7-6-5	
	3360	5-5-4-5-5-5-5-5-6-6	
	3370	5-5-5-5-5-6-6-6-6-5	
	3380	5-5-4-4-3-3-2-2-2-2	
	3390	2-2-2-2-2-2-2-2-2-2	
	3400	4-6-6-6-6-5-6-6-4-4	
3400 -	3410	5-6-7-7-5-5-4-4-3-3	
	3420	3-3-3-3-3-3-4-3-4-4	
	3430	2-2-2-3-3-3-3-4-6-6	
	3440	7-11-11-13-8-8-8-3-7-9	
	3450	9-10-8-7-7-7-5-6-8-8	

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TIME LOG
 (cont.)

<u>From</u>	<u>To</u>	<u>Minutes</u>	<u>Remarks</u>
3450 -	3460	8-8-5-4-4-4-4-4-4-4	Trip @ 3460'
	3470	5-7-8-5-4-5-5-6-5-3	
	3480	2-1-2-2-2-2-1-1-3-2	
	3490	2-2-2-2-3-3-4-4-2-3	
	3500	2-1-3-3-2-2-3-2-3-4	
3500 -	3510	4-3-3-4-3-4-3-4-4-4	
	3520	3-3-9-8-5-3-3-3-5-4	
	3530	6-6-7-6-8-9-6-6-5-6	
	3540	5-6-6-5-4-7-5-4-4-4	
	3550	3-6-7-5-8-7-7-7-7-5	
	3560	5-5-5-5-5-5-5-5-5-5	
	3570	5-5-5-5-3-5-5-5-6-7	
	3580	6-7-7-5-5-5-5-5-5-7	
	3590	7-7-7-5-5-5-5-5-5-5	
	3600	5-5-5-5-5-5-5-3-3-4	
3600 -	3610	5-5-5-5-3-3-3-3-3-3	
	3620	3-5-5-5-5-5-5-5-5-5	
	3630	6-7-9-9-5-5-5-4-5-5-	
	3640	4-4-4-4-3-2-2-3-7-11	
	3650	12-12-4-4-9-11-13-9-10-5	
	3660	5-4-4-4-3-3-2-2-9-13	
	3670	11-5-4-3-5-6-6-6-5-5	
	3680	5-8-8-11-10-9-8-6-9-8	
	3690	5-5-4-4-5-6-6-6-7-7	
	3700	6-6-6-5-5-7-6-5-5-5	
3700 -	3710	6-7-7-5-7-5-5-6-6-6	
	3720	7-4-6-6-6-7-7-5-5-5	
	3730	6-5-5-5-4-8-11-9-5-6	
	3740	7-8-7-8-10-7-3-3-1-1	
	3750	2-2-4-4-7-9-9-4-6-5	
	3760	5-5-5-5-6-7-9-7-7-7	
	3770	6-6-6-8-6-7-8-7-7-7	
	3780	7-8-5-7-7-9-9-9-9-9	
	3790	9-10-8-9-9-15-6-6-6-5	Trip @ 3786'
	3800	5-5-4-4-4-3-4-5-5-6	
3800 -	3810	5-4-4-4-4-4-2-2-2-2	
	3820	5-5-5-5-6-7-5-7-5-5	
	3830	5-7-6-7-8-7-6-7-9-8	
	3840	8-7-7-6-6-6-7-8-12-11	
	3850	8-9-10-7-7-7-7-7-8-8	
	3860	9-9-9-7-7-8-9-12-8-11	
	3870	8-7-6-5-5-6-5-5-4-5	
	3880	8-10-10-10-10-12-13-10-9-7	

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TIME LOG
 (cont.)

<u>From</u>	<u>To</u>	<u>Minutes</u>	<u>Remarks</u>
3880 -	3890	8-7-12-10-12-3-2-2-3-3	
	3900	3-3-4-5-8-9-12-6-7-5	
3900 -	3910	9-12-12-12-9-8-10-9-10-11	
	3920	10-10-9-8-8-7-11-14-10-12	
	3930	11-10-5-6-13-5-6-5-5-4	
	3940	5-5-5-5-4-4-4-4-5-6	
	3950	6-8-5-7-7-7-6-5-5-5	
	3960	5-5-6-6-6-7-7-8-10-10	
	3970	18-15-7-2-2-2-2-2-1-1	Trip @ 3963'
	3980	1-1-2-5-5-2-2-2-2-2	
	3990	3-3-3-3-3-4-6-4-4-4	
	4000	5-6-6-4-2-2-2-3-3-3	
4000 -	4010	2-3-3-2-4-3-3-3-3-3	
	4020	4-3-4-4-5-4-3-5-6-7	
	4030	10-7-9-7-7-5-3-2-1-1	
	4040	1-1-1-1-1-2-3-3-10-7	
	4050	4-5-5-5-7-6-10-7-5-6	
	4060	3-3-4-4-5-6-7-6-5-5	
	4070	8-8-8-7-7-8-9-13-15-15	
	4080	15-15-16-10-6-11-10-8-5-7	
	4090	4-6-3-2-2-1-3-3-3-3	
	4100	6-5-13-8-10-13-14-13-15-16	
4100 -	4110	17-14-8-10-10-11-14-16-16-17	
	4120	13-10-10-12-12-13-12-12-12-12	
	4130	12-12-12-12-14-16-18-18-19-18	
	4140	10-14-5-6-5-5-5-5-5-5	
	4150	8-10-14-21-15-17-15-15-20-25	Trip @ 4150'
	4160	7-9-8-8-7-8-8-9-9-10	
	4170	14-8-8-8-9-8-8-8-8-10	
	4180	7-5-12-8-9-8-10-7-7-9	
	4190	8-11-9-10-10-12-12-13-16-10	
	4200	9-10-11-11-11-19-20-19-10-10	
4200 -	4210	10-11-8-13-16-14-12-10-7-12	
	4220	16-18-11-7-6-3-5-5-14-16	
	4230	13-11-10-12-13-13-16-16-15	
	4240	14-16-15-11-13-14-8-14-14-16	
	4250	17-17-16-x-8-10-11-11-15-15	Correction of 1' @4244'
	4260	15-15-8-8-8-8-10-10-12-14	
	4270	13-11-12-11-11-11-10-8-7-7	DST #1 @ 4265'
	4280	8-7-8-8-8-7-10-12-12-10	
	4290	12-9-13-12-12-10-13-14-13-13	
	4300	10-15-14-14-16-16-15-18-13-13	

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TIME LOG
 (cont.)

<u>From</u>	<u>To</u>	<u>Minutes</u>	<u>Remarks</u>
4300 -	4310	14-11-10-12-10-12-11-10-10-10	
	4320	10-5-5-5-5-10-8-10-12-12	
	4330	12-15-14-15-10-5-5-5-5-5	
	4340	5-5-5-5-5-5-5-5-5-5	
	4350	5-5-5-5-5-5-5-11-23-25	Trip @ 4350'
	4360	11-14-14-14-20-15-17-17-20-18	
	4370	20-20-12-15-16-12-12-21-14-20	
	4380	20-16-18-19-19-14-15-17-17-18	
	4390	16-16-20-13-12-11-10-8-7-10	
	4400	7-7-8-9-10-11-10-12-12-14	
4400 -	4410	12-15-16-12-13-14-14-12-13-13	
	4420	14-19-8-10-8-6-6-7-7-9	Trip @ 4412'
	4430	7-5-6-5-7-7-7-8-10-7	
	4440	7-8-8-7-9-8-7-6-8-8	
	4450	8-7-6-5-5-7-7-8-10-7	
	4460	5-4-3-3-3-3-3-4-5-5	
	4470	5-7-7-6-9-4-6-6-6-4	Circ. @ 4465&4470'
	4480	4-4-3-5-9-9-11-10-7-10	Circ. @ 4476'
	4490	7-6-2-5-7-13-10-12-9-13	Circ. @ 4485'
	4500	11-8-6-11-11-14-14-9-11-12	
4500 -	4505	11-10-12-14-11	Total Depth 4505'