Hibbetts #1

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12-7-21W
77E SW

April 17, 1948.

Veeder Supply and Development Company
Cherryvale, Kansas.

Gentlemen:

Below is a report based on the examination of the cuttings from the Hibbetts No. 1. I have examined all of the cuttings from 3000 to 3700 feet and was present at the well during the drilling from 3530 to 3700 feet.

Veeder Supply and National Cooperative Refinery Association.
Hibbetts No. 1. Location: NE-SW
12-7S-21W. Elevation: 2144
Graham County, Kansas.

3096 (-952)- Top of Topeka Lime.
3517-20- Limestone with very poor porosity and a very spotted stain of black oil.
3533-38- Limestone, very finely crystalline, granular, with no oil stain.

3546-49- Heebner black shale.

3570 (-1226)- Top of Lansing-Kansas City Lime.
3584-85-Limestone with very poor porosity and a slight, spotted oil stain.
3418-19)- Limestone, slightly colcoastic with very poor porosity
3421-24) and a spotted oil stain and no oil odor.
3457-66- Limestone, very slightly colcoastic with very poor porosity and a trace of oil stain and no oil oder.
3469-75- Limestone, very slightly colcoastic, with very poor porosity only a few pieces of which have a slight oil stain and no oil odor.
3496-98-Limestone a few pieces of which have microscopic porosity and a slight oil stain.
3501-3502- Limestone, a few pieces of which have microscopic porosity and a slight oil stain.
3530-31)- Limestone a few pieces of which have microscopic porosity
3546-47) and a slight oil stain.
3567-70)

3578 (-1434)- Base of Kansas City Lime.

3623 (-1479)- Top of Pennsylvanian Conglomerate.
3623-24- Limestone, slightly sandy with poor porosity and an oil stain and no oil odor.
There were no other shows of oil in the conglomerate.

3632 (-1488) Top of weathered Arbuckle dolomite.
There was no show of oil in the weathered Arbuckle.

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Veeder and National Co-op. Hibbetts No. 1. 12-7S-21W. Graham County, Kansas

3647 (-1503)- Top of Solid Arbuckle Dolomite.

3647-49- White chert, some tripolitic and chalky with a little light, medium crystalline dolomite.

3659-62- Light, medium crystalline dolomite with slight porosity and a trace of hard, asphaltic material.

3662-3698- Light, medium crystalline dolomite, some of which is Glauconitic and sandy with very good porosity at 3662 to 3666. Most of the porosity has no stain but an occasional piece has small "pin points" of a very heavy black oil and some hard asphaltic material. There was no oil odor and this zone probably carried water.

3698 Total depth (Rig floor)
3700 Total depth (Top drive bushing)

There were no shows of oil worthy of further testing. It was recommended that the test be abandoned.

All depths have been corrected to conform to the drilling time record and were taken from the rig floor which was 2 feet below the rotary drive bushing.

Respectfully Submitted,

Jas. I. Daniels

Copy to:
Roger Kolter
W. O. Allen, Jr. National Co-op.

LEO R. FORTIER
Fourth Nat'l. Bank Bldg.
WICHITA, KANSAS

12-7-20W
SWC

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SAMPLE DETERMINATION

Veeder Supply & Development Co.,
and N. Appelman
Hibbots No. 1
SW SW SW Sec. 12, T7S, R21W
Graham County, Kansas

Elevation: 2156 D. F.

All measurements from kelly bushing, 2 feet above derrick floor

3100 - 3110	Gray Shale - some Light Gray Granular Lime
3110 - 3115	Gray Fossiliferous Lime - some Gray Shale
3115 - 3120	Gray Slightly Cherty Lime
3120 - 3125	Medium to Light Gray Lime
3125 - 3130	Ditto - some Gray Shale
3130 - 3140	Gray Shale - some Light Gray Lime
3140 - 3145	Gray Shale
3145 - 3150	Gray Shale - Little Light Gray Lime
	TOPEKA (Top 3148, Drilling Time)
3150 - 3160	Gray-white Lime
3160 - 3165	Gray-white and Light Gray Lime
3165 - 3170	Gray-white Lime
3170 - 3175	Gray-white Lime
3175 - 3185	Light Buff - Gray Lime - possible staining
3185 - 3190	Gray-white Lime
3190 - 3200	Light Gray Lime
3200 - 3215	Light Gray to Gray-white Chalky Lime
3215 - 3220	Light Gray rather Cherty Lime
3220 - 3235	Light Gray Slightly Cherty Lime
3235 - 3240	Light Gray Lime - little Gray Shale
3240 - 3245	Gray Shale - some Light Gray Lime - trace Chert
3245 - 3250	Ditto - Trace Black Shale
3250 - 3255	Light Gray to Gray-white Lime
3255 - 3260	Ditto - Cherty
3260 - 3265	Ditto - Shale cave (trip)
3265 - 3275	Gray-white Lime
3275 - 3280	Ditto - trace Chert
3280 - 3285	Gray-white Lime
3285 - 3300	Light Gray to Gray-white Lime
3300 - 3305	Gray & Vari-colored Shale & light Gray Fossiliferous Lime
3305 - 3310	Light Gray to Gray-white Lime - trace Chert - fair porosity few dark stains
3310 - 3315	Gray-white Cherty Lime - rare stains (Soft 3296-3304)

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-12
3136
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3315 - 3320 Gray-white Lime with some fair crystalline porosity and some fair but spotted stains 3310-3314.
3320 - 3325 Light Gray and Gray-white Slightly Cherty Lime - some Gray and Vari-colored Shale - few fair stains
3325 - 3330 Light Gray Slightly Cherty Lime - some fair crystalline porosity and some fair but spotted stains 3318-3322
3330 - 3335 Light Gray Lime - some fair to good porosity - fair stains from above
3335 - 3340 Light Gray to Gray-white Lime - trace porous Oolitic Lime
3340 - 3345 Light Gray to some gray-white Lime - only little vugular porosity and trace stains and faint odor -3328-3334
3345 - 3355

HEEBNER SHALE (Top 3342, Drilling Time)

3345 - 3355 Light Gray to some gray-white Lime - few pieces Black Shale
3355 - 3360 Light Gray to Gray-white Lime
3360 - 3365 Light Gray to Gray-white Lime - little Gray Shale
3365 - 3370 Red & Vari-colored Shale - some Light Gray Lime

LANSING-KANSAS CITY (Top 3365, Drilling Time)

3370 - 3375 Light Gray Lime - some White Lime & Vari-colored Shale - some fair crystalline and some fair but spotted stains. 3365-3370
3375 - 3380 Ditto - little Chert - trace stains
3380 - 3385 Light Gray Lime - trace Chert - trace stains
3385 - 3395 Light Gray to Gray-white Slightly Cherty Lime - rare stains
3395 - 3405 White Lime - trace porosity - trace stains
3405 - 3415 White to Gray-white Lime
3418 Circulated 1/2 Hour - Ditto - trace Chert - trace stains
Circulated 1 Hour - Ditto - good stains - only faint odor and bare trace free oil in wet sample - poor porosity, merits testing if casing is set (3414-3419)
Circulated 1½ Hours - Ditto - fewer stains
3418 - 3425 ?
3425 - 3430 Gray-white Cherty Lime
3430 - 3435 Light Gray and Gray-white Cherty Lime
3435 - 3440 Ditto - few pieces fair stains and porosity
3440 - 3445 Light Gray to Gray-white Slightly Cherty Lime - few pieces fair stains and porosity 3436-3438

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3445 - 3455	Light Gray to Gray-white Lime
3455 - 3460	Ditto - Slightly Cherty
3460	Circulated 1/2 Hour - Ditto
	Circulated 1 Hour - Gray-white Lime - some poor porosity - fair but spotted stains - slight odor - trace free oil in wet sample.
	Circulated 1½ Hours - Ditto
3460 - 3470	Ditto - Merits testing 3456-3461 if casing is set.
3470	Circulated 1/2 Hour - Gray-white Lime - some poor finely crystalline porosity - spotted stains - slight odor - trace free oil in wet sample.
	Circulated 1 Hour - White Cherty Lime - some fair porosity - some spotted stains - slight odor - trace free oil in wet sample.
	Circulated 1½ Hours - Ditto - Merits testing 3464-3470 if casing is set. May carry water.
3470 - 3480	Gray-white to White Lime - trace Chert
3480 - 3490	White Dense Lime
3490 - 3495	Ditto - trace Chert
3495 - 3500	Gray-White to White Lime
3500 - 3505	Ditto and Dark Gray Lime
3505 - 3510	White and Light Gray Lime - trace Chert
3510 - 3515	White Lime
3515 - 3520	Gray-white Lime
3520 - 3530	Ditto - trace Chert
3530 - 3540	Gray-white Lime
3540 - 3555	Light Gray to Gray-white Lime
3555 - 3565	Ditto - some Gray Shale
3565 - 3570	Gray-white Lime
3570 - 3585	Ditto - little pinkish Lime

BASE LANSING-KANSAS CITY (3575, Drilling Time)

3585	Circulated 1½ Hours - Gray and Vari-colored Shale and Gray-white Lime - little pink Lime
3585 - 3590	Ditto
3590 - 3595	Gray and Vari-colored Shale - some Gray-white & Vari-colored Lime
3595 - 3600	Gray and Vari-colored Shale and Gray-white Lime - trace Vari-colored Lime
3600 - 3605	Gray-white Lime - some Gray and Vari-Colored Shale
3605 - 3610	Vari-colored Shale - some Gray-white Lime - trace Sand
3610 - 3620	Vari-colored Shale - little Lime

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"SOOY" CONGLOMERATE (Top 3616, Drilling Time)

3620 Circulated 1/2 Hour - Ditto
Circulated 1 Hour - Light Gray Granular Sandy Lime - poor porosity - no odor - trace free oil in wet sample - fair stains in dry samples
Opinion: Small show oil 3616-3620
Does not merit testing
3620 - 3625 Circulated 1½ Hours - Ditto
3620 - 3625 Vari-colored Shale - little Lime as above - some greenish Shale - trace White Chert
3626 Circulated 1/2 Hour - Vari-colored Shale - trace Lime - trace White Chert - few sand grains
Circulated 1 Hour - Ditto
Circulated 1½ Hours - Vari-colored Shale - trace Lime - trace vari-colored Chert - trace Sand - some Green Shale
3626 - 3630 Ditto
3630 Circulated 1/2 Hour - Vari-colored Shale & medium coarse rounded sand - trace Chert & Lime
Circulated 1 Hour - Ditto - trace quartzose Sand
Circulated 1½ Hours - Vari-colored Shale & rounded sand - trace Lime - trace Gilsonite
3634 Circulated 1/2 Hour - Medium to Medium coarse rounded sand and Vari-colored Shale - trace Lime
Circulated 1 Hour - Ditto
Circulated 1½ Hours - Ditto (weathered)
3634 - 3640 Ditto - trace Chert

REAGAN SAND (Top 3638, Drilling Time)

3642 Circulated 1/2 Hour - Vari-colored Shale - some sand, partly quartzose
Circulated 1 Hour - Coarse to medium angular to rounded sand - some vari-colored shale - trace Chert
Circulated 1½ Hours - Ditto - bare trace saturation - no odor
3642 - 3655 Ditto
3655 - 3665 Ditto - few very large angular glassy grains

3638 2,150 1492 3616 2,150 1470

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3666 Circulated 1/2 Hour - Coarse to very coarse angular sand - trace mica (appears to have come from quartzite) - trace saturation - no odor

Circulated 1 Hour - Medium coarse angular partly cemented sand - trace mica and pyrite - little free oil in wet sample - no odor

Circulated 1½ Hours - Little - some free oil in wet sample - possible odor. (Permeability may be low)

Drill Stem Test 3636-3666 - open 30 minutes - blew 12 minutes recovered 40 feet mud - bare rainbow show oil.

PRE-CAMBRIAN QUARTZITE (Top 3671, Drilling Time)

3666 - 3673 Some Sand - some Quartzite
3673 - 3674½ Quartzite - trace biotite
3674½ Circulated 1/2 Hour - Ditto
Circulated 1 Hour - Ditto
Circulated 1½ Hours - Ditto

3674½ Total Depth
Ran Schlumberger

Derrick Floor Data

3146	- 990	Top Topeka
3340	- 1184	Top Heebner Shale
3363	- 1207	Top Lansing-Kansas City
3575	- 1419	Base Kansas City
3614	- 1458	Top "Sooy" Conglomerate (Sandy Lime 3614-3618)
3636	- 1480	Top Reagan Sand
3669	- 1513	Top Pre-Cambrian Quartzite
3672½	- 1516½	Total Depth

SRS.

7-2-47