# STATE OF KANSAS STATE CORPORATION COMMISSION

Form CP-4

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
717 37- 371

## WELL PLUGGING RECORD

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## RICHARD B. SCHMIDT

1219 COLLEGE AVENUE TOPEKA, KANSAS 66604

PETROLEUM EXPLORATION CONSULTANT

July 24, 1970

EHRLICH DRILLING COMPANY

Operator Wilson, Kansas 67490

CECIL JOHNSON # 1,

The SE, SE of the Southwest Quarter  $(SW_4^1)$  of Section 11, Township 22 South, Range 17 West, PAWNEE COUNTY, KANSAS

STATE CORPORATION COMMISSION

AUG 7

CONSERVATION DIVISION

Wichita, Kansas

GENERAL:

Contractor: Ehrlich Drilling Company, Wilson, Kansas

Rotary Drilling: Surface to 4163 (4153) feet
Spudded & set surface casing: June 25, 1970
Under surface casing drilling commenced: June 29, 1970
Drilling completed: July 12, 1970, at 10:54 p. m.
Total depth: 4163 (4153) feet. Drilling was stopped from July 4, to July 7, 1970.

CASING:

42 feet of 16 inch cemented with 100 sacks;

Surface pipe: 950 feet of 8 5/8th inch cemented with

350 sacks of common cement

Production pipe: 4163 (4153) feet of  $4\frac{1}{2}$  inch cemented

with 100 sacks of common cement at

2:00 a. m. on July 14, 1970.

**ELEVATIONS:** 

Ground level after dirt work: 2023 feet above sea level Derrick floor: 2025 feet Rotary pushing: 2028 feet above sea level Rotary bushing elevation and measurements used.

DRILL STEM TESTS:

NONE

CORES:

NONE

ELECTRIC LOGS:

Gamma Ray - Neutron Radiation Log inside of  $L_2^{\frac{1}{2}}$  inch production casing by Great Guns, Hays, Kansas, from 1000 to 1100 feet; 3300 to 4121 feet of 5 inch scale equals 100 feet.

#### GEOLOGICAL DATA

Ten foot drilling samples were saved and examined wet from 3480 to 3940 feet and five foot samples from 3940 to the total depth of 4163 (4153) feet.

One foot drilling time was retained from 2500 feet to 4163 feet. Please note 6 and 10 foot up-the-hole corrections using the electric log measurements, i. e. 3606 feet on drilling time is 3600 feet on the electric log (corrections are in parenthesis).

BY SAMPLES OR

	•	BY SAMPLES OR
FORMATION TOPS	BY ELECTRIC LOG	TIME LOG
Anhydrite	1045 + 983	none
Anhydrite basé	1068 + 960	
Red Eagle lime		2680 [2674]
Neva lime		2607 [2601]
Foraker lime	ř.	2736 [2730]
Woodsiding lime		2812 [2806]
Root shale		2861 [2855]
Stotler lime	•	2925 [2919]
Pillsbury shale		2949 [2943]
Zeandale lime		2986 [2980]
Burlingame lime		3065 [3059]
Howard lime		3104 [3098]
Topeka lime		3140 [3134]
Queen Hill shale	3379 - 1351	3386 [3380]
Heebner shale	3491 - 1463	3498 [3492]
Douglas shale	3522 - 1494	3528 [3522]
Iatan	3590 - 1562	3596 [3590]
LANSING LIME	3600 - 1572	3606 [3606]
Base of Kansas City lime	3862 - 1834	3874 [3864]
VIOLA LIME	3976 - 1948	3986 [3976]
SIMPSON SAND	4022 - 1994	4034 [4024]
Simpson shale	4044 - 2016	4050 [4040]
ARBUCKLE DOLOMITE	4076 - 2048	4086 [4076]
total depth of	4010 2040	4000 [4010]
electric log	4121 - 2093	
TOTAL DEPTH OF WELL		4163 [4153] - 2125
		4m2) [4m))] ~~~)

## ZONES OF INTEREST

#### LANSING LIME

[ Sample and drilling time measurements are used to describe the sample ]

At 3620 feet, soft white and light tan crystalline lime; gray to tan fossliferous lime; white-gray crystalline lime with no visible porosity and no shows. The electric log shows this to be the top and 10 foot zones from 3600 to 3602 [5 to 7% porosity] and 3610 to 3612 feet  $[l_{12}\%]$  porosity].

Samples at 3650 [3643] feet were dense cream and buff limes. At 3660 [3652[ feet, small grain sub-oolitic lime was recovered. The electric log shows this to be from the 30 foot zone from 3631 to 3634 [7% porosity] and 3636 to 3639 [11% porosity].

#### KANSAS CITY LIME

At 3690 [3682] feet, dense white small grain colitic and light tan dense sub-colitic lime was recovered. The electric log shows this to be the 70 foot zone from 3672 to 3676 feet [5 to  $5\frac{1}{2}\%$  porosity].

At 3710 [3702] feet, after  $l_4^1$  hours of circulating, recovered cream to light tan oolicastic to sub-oolicastic medium grain limestone with most oolicastic grains not contiguous. The electric log shows this to be the 90 foot zone from 3694 to 3707 feet [8 to 20% porosity unadjusted].

At 3780 [3773] feet, soft dense cream colitic small grain and white crystalline limestone with poor intercrystalline porosity was recovered with a small show of free oil and gas with a fair odor. The electric log shows this to be the 160 foot zone from 3754 to 3758 feet  $\begin{bmatrix} 5\frac{1}{2} & 5 & 5\frac{1}{2} \\ 5\frac{1}{2} & 5 & 5\frac{1}{2} \\ 5\frac{1}{2} & 5\frac{1}{2} \\ 5\frac{1}{2} & 5\frac{1}{2} & 5\frac{1}{2} \\ 5\frac{$ 

At 3800 [3793] feet, more of the last above plus small grain white colitic to sub-colicastic lime mixed with gray and green-gray shale with a small show of free oil with a fair odor. The electric log shows this to be the 180 foot zone from 3780 to 3788 feet [15 to 20% porosity] being either shaley or radio-active lime.

## BASAL PENN. SAND AND CHERT

At 3980 [3970] feet, dense cream white lime and cherty lime was recovered with traces of white sandy lime with some light gilsonitic stain and no free oil or gas or odor. The electric log shows this to be the zone from 3978 to 3982 feet containing 22% porosity on the limestone scale.

#### AJOLA

At 4000 [3990] feet, after two hours of circulating, recovered white vitreous and light tan translucent chert with a light gilsonitic stain; dense cream lime and cherty lime and multi-colored shales. The electric log shows this to be the zone from 3980 to 3988 feet [20% porsity] on the limestone scale containing some shale.

At 4015 [4005] feet, after two hours of circulating, recovered red and orange cherts; brown, gray, maroon and green shales with 60% red shale and samples washed red. White vitreous chert with a light gilsonitic stain. The electric log shows this to be the clean zone from 3994 to 4000 feet [25 to 30% porosity] and should be tested even though no free shows of gas were observed. It is a possible gas zone.

## SIMPSON SAND

At 4040 [4030] feet, after two hours of circulating, recovered light bright yellow sandy lime, small grain with poor porosity with a very light show of free oil and a fair odor; transparent-medium-grain-well rounded sand clusters.

At 4050 [4040] feet, after one hour of circulating, recovered bright yellow fine grain lime; medium grain-well rounded-transparent sand clusters. Thirty per cent of the sand clusters had a very light show of free oil but a good odor. Only about 30% of the clusters had a fair florescence on the black light exposure.

At 4055 [4045] feet, after circulating one hour, recovered medium grain translucent sand clusters, fairly friable, with a light stain on the clusters and very few had free gas bubbles [7 bubbles of natural gas]; bright bluegreen shale. The electric log shows these Simpson samples to be from the porous SIMPSON SAND zone from 4026 to 4036 feet with either a shale or radio-active sand streaks at 4025 to 4026; 4029 to 4032 feet. The whole zone from 4026 to 4036 feet contains  $9\frac{1}{2}$  to 11% porosity on the limestone scale and should be tested.

At 4072 [4062] feet, after circulating one hour, recovered very dense green bedded to red sandstone on white chert. This bedding plane may be from the last above sand zone. Notation is made because it may be up-the-hole sample tailings from the zone of 4025 to 4026 or 4029 to 4032 feet which appears to be slightly shaley or these samples may be from above or below the bedding plane of the whole sand section. Only core-drilling could answer this question.

## ARBUCKLE DOLOMITE

At 4100 [4090] feet, without circulating, recovered white opaque sharp vitreous chert; 80% brown and blue-green, gray and black shales; 5% white and very light pink dense dolomite. No shows whatsoever. The electric log shows this to be from 4079 to 4082 feet [9 to 10% porosity].

At 4110 feet [4100] after one hour of circulating, recovered fine white and very light tan crystalline dolomite in 10% of the samples. Some medium grain white dolomite with good porosity. Cream medium grain crystalline dolomite with good crystalline porosity. All the aforesaid with no shows whatsoever. The electric log shows this to be the zone from 4086 to 4094 feet containing 9 to  $10\frac{1}{2}$  porosity on the limestone scale.

At 4120 [4110] feet, recovered white medium granular dolomite with good inter-grain porosity with now shows or odor. The electric log shows this to be the zone from 4100 to 4107 feet containing 11 to 12 % porosity.

At 4130 [4120] feet, recovered white to cream fine to medium crystalline dolomite, some colicastic and soft and fairly friable — excellent porosity. The electric log shows this zone from 4112 to 4118 feet to contain  $12\frac{1}{2}$  porosity.

At 4135 [4125] feet, recovered light tan dense dolomite with poor porosity. The time log and the ending of the electric log at 4121 feet shows this to be the dense zone from 4118 to 4123 feet adjusted.

At 4145 [4135] feet, after two hours of circulating, recovered soft white medium grain colicastic dolomite; remaining 20% dense white and light tan dolomite. The time log shows this to be the zone from 4124 to 4131 feet.

At 4156 [4146] feet, recovered light tan dense dolomite, medium grain white crystalline dolomite with good crystalline porosity. The time log shows this to be the zone from 4152 to 4156 [4142 to 4146] feet.

At 4163 [4153] feet, after four hours of circulating, 40% of the samples were light tan crystalline dolomite with a light stain and good porosity. The remaining of the samples were shale cavings. The dolomite probably are from the zone of 4142 to 4146 feet adjusted.

All of the Arbuckle drilled thus far, had no shows of free oil, gas or odor.

#### STRUCTURAL COMPARISON

To the Amerada Petroleum Corporation # 1 Odell now Vincent Oil Corporation # 1 Rost, the SW, SW of the NW $\frac{1}{4}$  of Section 15, 22-17, Pawnee County, Kansas, exactly  $\frac{1}{2}$  mile due south and almost  $1\frac{1}{2}$  mile due west, from their electric log, your well is:

On the Anhydrite top, 4 feet higher; on the Heebner shale, 33 feet higher; Lansing lime 34 feet higher; Viola, 108 feet higher; SIMPSON SAND, 98 feet higher; Simpson shale, 94 feet higher; Arbuckle, 106 feet higher.

To the Gulf Oil Corporation # 1 State Hospital, the SE, SE of the  $SW_4^1$  of Section 1, 22-17, exactly one mile due north and one mile due east, from their electric log, your well is:

On the Anhydrite top, 15 feet lower; on the Heebner shale, 49 feet lower; Lansing lime 48 feet lower; Base of the Kansas City lime, 45 feet lower; NO VIOIA SECTION; Very small and partial SIMPSON SAND zone, 133 feet lower; Simpson shale, 142 feet lower; Arbuckle, 135 feet lower.

To the Gulf Oil Corporation # 1 Heage, now Chief Drilling Company # 1 Heage, the NE, NE of the NE $\frac{1}{4}$  of Section 13, 22-17, exactly 660 feet due south and nearly  $1\frac{1}{2}$  mile due east from their electric log, your well is:

On the Heebner shale, 4 feet higher; on the Lansing lime, 6 feet higher; SIMPSON SAND, 19 feet higher and on the Arbuckle, 32 feet higher.

Structurally on the Arbuckle dolomite, your well is 205 feet lower than the nearest Arbuckle producer in the southwest part of the Larned Pool being A. F. BRANN's Bahls, the SE, SE of the SE $\frac{1}{4}$  of Section 5, 22-16 exactly one mile north and nearly  $3\frac{1}{2}$  miles due east of your well. It appears to be a gradual sharp drop rather than a sharp fault or a lower structural trap but continues to drop further south and west of your well.

Structurally on the Simpson Sand, your well is the higher than the Heage well described above. In the Gulf State Hospital well in Section 1, 22-17, it is not fully developed but commencing evidence of the Simpson sand but mostly "shaled out" or too high structurally to have a development of a good sand section.

Thus, it definitely appears that the SIMPSON SAND is developing south and west of this Gulf Oil State Hospital well described above, and further on south may develop into a productive trap of unknown size of oil or gas or both.

#### SUMMARY

The small light show of free oil and traces of natural gas from 4026 to 4036 feet on the electric log should be further tested even though more free oil should have been present to indicate an oil producer but possibly a natural gas producer.

Poor shows of either free oil and natural gas in drilling samples are often typical in good Simpson Sand producing wells.

It is my opinion that further testing of this SIMPSON SAND ZONE should yield some fluid or natural gas based on sample examination only. However, using the electric log, the porosity is relatively low for probable water or oil production if one uses other Simpson Sand wells as a criteria.

### RECOMMENDATIONS

Since management decided to set production casing for further testing instead of open hole drill-stem-testing, the SIMPSON SAND should be jet perforated from 4026 to 4036 feet with 4 holes per foot. If it does not produce fluid or gas naturally, you should use a good mud acid clean-up to remove all major drilling mud which may have entered the zone. After the clean-up, you may wish to hydro-frac the well using an experienced and reliable frac-service company.

Only after production ceases in the Simpson sand, the Kansas City zones from 3780 to 3788 feet and from 3754 to 3758 feet should also be tested for possible production although based on the present known datum and the sample examination, I am doubtful if it will produce commercially.

Very respectfully yours,

Richard B. Schmidt, Oil & Gas Exploration Consultant, AB & BBA

RBS:jr Drilling time attached.

PETROLEUM EXPLORATION CONSULTANT

RICHARD B. SCHMIDT 1219 COLLEGE AVENUE TOPEKA, KANSAS EHRLICH DRILLING COMPANY, Wilson, Kansas, operator.

Cecil Johnson # 1, the SE, SE of the Southwest Quarter (SW $\frac{1}{4}$ ) of Section 11, Township 22 South, Range 17 West, PAWNEE COUNTY, KANSAS.

Depth Minutes per foot	Remarks
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2701 - 2720 ' 1 1 2 1 3 5 5 9 4 4 4 6 4 5 7 3 2721 - 2740	2 7 3 2 2 2 3 2 2 3 7 4 4 5 4 ·
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3101 - 3120       3 2 1 2 3 4 4 1 2 1 3 5 3 2 1 2         3121 - 3140       2 2 2 1 2 2 1 3 1 2 2 7 8 7 4 3         3141 - 3160       5 4 3 3 3 4 4 6 4 5 6 3 5 5 4 5         3161 - 3180       5 5 5 5 5 2 3 3 5 4 5 3 4 5 5 5         3181 - 3200       5 5 6 6 4 5 7 4 6 7 8 7 5 6 8 6	3 3 2 3 2
3201 - 3220       7 5 2 3 2 4 2 2 2 3 3 3 3 4 6 5         3221 - 3240       6 7 5 5 4 4 4 3 6 5 7 6 6 3 4 1         3241 - 3260       4 6 5 5 4 4 2 2 2 2 2 2 2 3 3 3 3 1         3261 - 3280       4 3 5 4 4 3 2 2 3 5 5 5 4 5 5 1         3281 - 3300       4 4 7 6 9 8 3 4 3 6 7 7 4 6 2 2	4 4 6 7 8 4 4 2 2 3 4 4 3 3 3
3301 - 3320       1 2 1 1 1 5 5 5 5 3 4 3 2 3 6 5         3321 - 3340       5 5 5 5 5 6 6 6 6 6 6 6 5 7 9 11         3341 - 3360       5 5 6 6 10 10 11 6 6 8 8 5 4 4         3361 - 3380       5 4 6 3 4 5 5 7 9 8 8 10 8 8 6         3381 - 3400       6 9 9 9 8 8 7 3 3 1 3 4 8 6 8 3	12 8 8 7 5 3 6 7 5 4 4
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15-145-20155-0000

Drilling Time Log continued on Cecil Johnson # 1, the SE, SE of the SW4 of Section 11, Township 22 South, Range 17 West, PAWNEE COUNTY, KANSAS

Depth Minutes per foot Remarks 3601 - 3620 10 5 3 2 3 5 10 10 9 4 4 7 6 10 5 6 8 6 7 9 Vis 31, CRS @ 3620 1 hr 7 7 11 6 13 14 10 11 9 7 10 10 7 4 4 9 10 9 9 9 Mix Mud @ 3625 - 3630 3621 - 3640 10 7 6 4 6 7 8 11 9 8 8 9 11 10 12 11 7 9 11 9 3641 - 3660 3661 - 3680 7 10 10 10 11 14 7 12 6 11 6 5 6 7 7 7 4 9 12 11 Vis 38 @ 3669 3681 - 3700 14 18 15 13 13 11 14 15 12 14 14 16 14 10 8 11 16 13 1 1 SR@ 3698 3701 **-** 3720 3721 **-** 3740 2 ½ ½ ½ ½ 1 1 4 6 3 3 7 5 6 6 10 8 12 9 9 SR3701-3707, R@ 3710-3711 11 10 7 4 4 6 6 6 6 7 14 13 8 14 9 8 8 6 14 Trip # 7 @ 3718 3741 - 3760 12 10 6 12 11 11 11 11 8 6 8 14 13 14 13 15 10 13 13 10 3761 - 3780 11 8 10 18 14 18 15 10 9 18 18 19 10 3 10 15 20 20 17 9 Mix mud@ 3768 3781 - 3800 7665878710866791010981014 Odor@ 3790 3801 - 3820 12 13 14 14 12 13 12 13 7 7 7 9 10 7 13 11 12 10 11 14 Mud @ 3805 3821 - 3840 11 8 6 11 12 18 18 12 12 8 10 9 12 19 10 19 21 10 15 15 3841 - 3860 10 7 10 14 16 5 11 10 9 10 11 11 11 10 10 13 11 15 19 18 Vis 35A 3857 15 13 16 18 16 15 16 18 13 16 15 28 25 25 8 6 7 13 5 5 Vis 30@ 3876 3861 - 3880 3881 - 3900 6 14 18 16 20 16 10 19 9 12 3 5 4 4 5 4 4 4 4 3 Trip @ 3890 44345332445445445445 3901 - 3920 3921 - 3940 44343444434332354375 CFS @ 3940 for 1 hr. 34424634368644544855 3941 - 3960 Vis. 35 @ 3949 3961 - 3980 5 5 4 4 5 4 8 7 8 6 10 7 3 3 5 5 3 2 3 4 SR@ 3977-78&3980 3981 - 4000 339856433452465745710 CFS@ 4000 for 2 hrs. 9815687911987811712813211920 CFS@ 4015 for 2 hrs. 4001 - 4020 13 15 15 15 13 5 4 3 5 5 4 4 3 7 5 5 4 4 3 3 Trip @ 4025 # 9
4 3 7 7 11 9 11 10 10 3 2 4 7 5 3 3 7 8 5 4 CFS@ 4050 & 4055 1 hr.each
3 4 6 4 11 10 14 12 5 8 7 8 7 7 8 7 9 8 7 6 CFS@ 4068 & 4073
7 7 9 9 8 8 7 8 4 5 6 5 6 7 4 4 6 6 5 6 SR@ 4099 Vis. 39 @ 4089 4021 - 4040 4041 - 4060 4061 - 4080 4081 - 4100 7 5 5 6 5 8 6 9 4 8 6 4 7 6 7 7 5 6 5 3 CFS@ 4110 SR@ 4113 2 3 2 4 4 3 4 6 5 7 6 6 6 4 3 3 3 4 2 2 CFS@ 4125 for 1 hr. 4 6 5 5 5 4 8 6 6 10 10 6 6 6 4 4 8 7 8 4 CFS @ 4145 1r. 4101 - 4120 4121 - 4140 4141 - 4160 CFS @ 4155 for 3 hrs. CFS @ 4163 for 7 hours. 4161 - 4163 Stopped drilling at 10:54 p.m. July 12, 1970.

COUNTY PAWNE  $\mathbf{E}$ KANSAS GULF OIL CORPORATION'S # 1 State Hospital T. 22 S, R. 17 W。 **-**EHRLICH DRILLING COMPANY's TOM ALLAN'S # 1 Brooks # 1 | Cecil Johnson GULF OIL CORPORATION'S AMERADA OIL CORPORATION'S # 1 Heagd # 1 Odell now Rost