

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
212 No. Market
Wichita, Kansas 67202

WELL PLUGGING RECORD

Pawnee County, Sec. 11 Twp. 22S Rge. (E) 17 (W)

Location as "NE/CNW%SW%" or footage from lines SW/4

Lease Owner Alpine Oil & Royalty Co., Inc.

Lease Name Cecil Johnson "A" Well No. 1

Office Address 800 Bitting Building, Wichita, Kansas 67202

Character of Well (completed as Oil, Gas or Dry Hole) Gas

Date well completed November 2 19 71

Application for plugging filed November 29 19 73

Application for plugging approved November 29 19 73

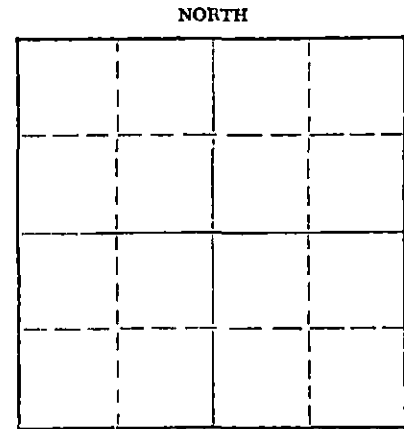
Plugging commenced November 29 19 73

Plugging completed November 29 19 73

Reason for abandonment of well or producing formation Non-productive in commercial quantities

If a producing well is abandoned, date of last production January 19 72

Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes



Locate well correctly on above Section Plat

Name of Conservation Agent who supervised plugging of this well Leo F. Massey

Producing formation Simpson Depth to top 4026' Bottom 2036' Total Depth of Well 4122 Feet

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

| FORMATION | CONTENT | FRDM | TD | SIZE | PUT IN | PULLED OUT |
|-----------|---------|------|----|--------|--------|------------|
| | | | | 16" | 42' | |
| | | | | 8-5/8" | 950' | |
| | | | | 4-1/2" | 4118' | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

Plugged with 3 sacks hulls, 20 sacks sand, then 1 plug, 100 sacks cement (50-50 Poz, 6%), fill to top. Plug down at 10:30 A.M. December 3, 1973.

RECEIVED
STATE CORPORATION COMMISSION
DEC 4 1973
CONSERVATION DIVISION
Wichita, Kansas

Name of Plugging Contractor Allied Cementing Co., Inc.
Address Box 207, Russell, Kansas 67665

STATE OF Kansas, COUNTY OF Sedgwick, ss.
Dwight J. Wilson (employee of owner) or (owner or operator) of the above-described

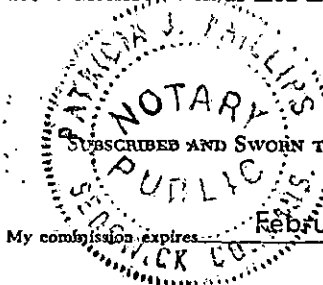
well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) *Dwight J. Wilson*
800 Bitting Building, Wichita, Kansas 67202 (Address)

Subscribed and sworn to before me this 3rd day of December, 1973

My commission expires February 23, 1976

Patricia J. Phillips
Patricia J. Phillips Notary Public.



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 $\frac{1}{4}$) of Section 11,
Township 22 South, Range 17
West, PAWNEE COUNTY,
KANSAS

RECEIVED
STATE CORPORATION COMMISSION
AUG 7 1974
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 4 $\frac{1}{2}$
inch production casing by
Great Guns, Hays, Kansas, from 1000 to 1100 feet;
3300 to 4121 feet of 5 inch scale equals 100 feet.

G E O L O G I C A L D A T A

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).

| <u>FORMATION TOPS</u> | <u>BY ELECTRIC LOG</u> | <u>BY SAMPLES OR TIME LOG</u> |
|-----------------------------|------------------------|-------------------------------|
| Anhydrite | 1045 + 983 | none |
| Anhydrite basé | 1068 + 960 | |
| Red Eagle lime | | 2680 [2674] |
| Neva lime | | 2607 [2601] |
| Foraker lime | | 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 electric log | 4121 - 2093 | |
| TOTAL DEPTH OF WELL | | 4163 [4153] - 2125 |

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 fossiliferous 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 [4½% 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 oolitic and light tan dense sub-oolitic lime was recovered. The electric log shows this to be the 70 foot zone from 3672 to 3676 feet [5 to 5½% porosity].

At 3710 [3702] feet, after 1¼ hours of circulating, recovered cream to light tan oolitic to sub-oolitic medium grain limestone with most oolitic 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 oolitic 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 [$5\frac{1}{2}$ to $6\frac{1}{2}$ % porosity] and from 3762 to 3664 [$10\frac{1}{2}$ to 11% porosity] with the latter to be shaley.

At 3800 [3793] feet, more of the last above plus small grain white oolitic to sub-oolicastic 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.

VIOLA

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% porosity] 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 blue-green 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 10½% 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 oolitic and soft and fairly friable -- excellent porosity. The electric log shows this zone from 4112 to 4118 feet to contain 12½% 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 oolitic 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 NW¼ of Section 15, 22-17, Pawnee County, Kansas, exactly ½ mile due south and almost 1½ 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 SW¼ 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 VIOLA 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 NE¼ of Section 13, 22-17, exactly 660 feet due south and nearly 1½ 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.

S U M M A R Y

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.

R E C O M M E N D A T I O N S

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 & BRA

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 |
|-------------|--|-----------------------|
| 2501 - 2520 | 4 4 3 3 4 6 6 3 6 5 5 4 1 1 1 1 1 2 3 2 | |
| 2521 - 2540 | 2 2 2 2 2 3 2 2 1 3 3 2 1 3 2 2 3 5 5 4 | |
| 2541 - 2560 | 3 3 4 3 4 3 3 3 2 3 5 2 3 2 3 2 3 2 3 3 | |
| 2561 - 2580 | 3 2 4 3 3 3 4 6 4 6 6 5 7 6 6 6 6 3 3 7 | |
| 2581 - 2600 | 5 5 5 7 6 5 5 6 6 4 4 5 11 9 5 5 5 5 5 5 | |
| 2601 - 2620 | 5 7 6 4 4 2 4 4 7 4 4 4 6 13 7 5 3 3 2 2 | |
| 2621 - 2640 | 5 5 5 5 5 3 2 3 5 3 3 3 3 1 1 1 1 1 1 1 | |
| 2641 - 2660 | 2 1 1 3 3 3 4 3 3 4 4 4 3 3 2 3 4 6 6 6 | |
| 2661 - 2680 | 6 10 5 5 4 3 4 3 3 3 4 5 5 6 4 4 2 3 2 2 | |
| 2681 - 2700 | 3 3 4 4 5 7 5 4 7 5 5 6 6 7 6 4 1 1 1 2 | |
| 2701 - 2720 | 1 1 2 1 3 5 5 9 4 4 4 6 4 5 7 3 4 4 4 4 | |
| 2721 - 2740 | 4 4 5 3 5 4 6 2 2 2 2 6 6 3 3 2 7 3 2 2 | |
| 2741 - 2760 | 3 5 4 5 5 6 5 5 4 5 5 4 2 2 2 2 3 2 2 3 | |
| 2761 - 2780 | 2 2 6 7 6 2 6 4 3 5 4 3 4 4 3 7 4 4 5 4 | |
| 2781 - 2800 | 8 3 6 5 7 4 2 3 4 4 4 5 4 3 2 2 1 1 5 22 | |
| 2801 - 2820 | 3 5 2 4 5 3 4 4 2 3 4 4 4 4 4 4 4 3 4 4 | |
| 2821 - 2840 | 3 3 2 3 4 3 4 3 4 3 2 2 2 3 3 3 4 3 3 3 | |
| 2841 - 2860 | 2 2 3 3 5 3 2 2 2 3 3 2 2 2 4 4 3 4 4 3 | |
| 2861 - 2880 | 2 2 3 2 3 2 2 2 1 2 2 2 1 2 2 1 2 2 2 2 | |
| 2881 - 2900 | 2 2 2 2 2 2 2 2 2 3 2 2 1 2 2 2 2 1 1 1 | |
| 2901 - 2920 | 3 1 3 3 3 3 2 2 2 2 2 2 2 2 3 2 2 2 2 2 | |
| 2921 - 2940 | 1 2 1 1 1 4 5 6 1 2 3 4 2 3 2 5 5 5 4 3 | |
| 2941 - 2960 | 3 3 4 3 3 3 3 3 3 4 2 2 2 1 2 1 2 2 2 1 | |
| 2961 - 2980 | 1 1 2 1 1 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 | |
| 2981 - 3000 | 1 2 2 1 2 2 5 4 6 5 3 2 2 1 3 5 4 5 5 5 | |
| 3001 - 3020 | 5 5 4 3 4 5 4 7 7 7 8 7 5 5 4 5 5 5 5 4 | |
| 3021 - 3040 | 3 3 4 3 2 2 3 6 3 3 2 2 2 3 3 2 2 3 2 5 | |
| 3041 - 3060 | 6 7 6 5 5 4 3 3 2 3 4 1 2 2 4 3 2 2 3 2 | |
| 3061 - 3080 | 3 2 3 2 3 4 6 6 5 4 5 7 4 4 5 5 2 3 3 2 | |
| 3081 - 3100 | 4 3 2 4 3 4 4 4 3 3 3 3 3 3 3 2 2 3 3 2 | |
| 3101 - 3120 | 3 2 1 2 3 4 4 1 2 1 3 5 3 2 1 2 2 1 1 2 | |
| 3121 - 3140 | 2 2 2 1 2 2 1 3 1 2 2 7 8 7 4 3 3 2 3 2 | |
| 3141 - 3160 | 5 4 3 3 3 4 4 6 4 5 6 3 5 5 4 5 4 3 3 2 | |
| 3161 - 3180 | 5 5 5 5 5 2 3 3 5 4 5 3 4 5 5 5 3 4 3 4 | |
| 3181 - 3200 | 5 5 6 6 4 5 7 4 6 7 8 7 5 6 8 6 7 7 7 5 | |
| 3201 - 3220 | 7 5 2 3 2 4 2 2 2 3 3 3 3 4 6 5 7 4 4 7 | |
| 3221 - 3240 | 6 7 5 5 4 4 4 3 6 5 7 6 6 3 4 4 4 6 7 8 | |
| 3241 - 3260 | 4 6 5 5 4 4 2 2 2 2 2 2 3 3 3 4 4 2 2 3 | |
| 3261 - 3280 | 4 3 5 4 4 3 2 2 3 5 5 5 4 5 5 4 4 3 3 3 | |
| 3281 - 3300 | 4 4 7 6 9 8 3 4 3 6 7 7 4 6 2 2 3 2 3 2 | |
| 3301 - 3320 | 1 2 1 1 1 5 5 5 5 3 4 3 2 3 6 5 5 4 5 5 | |
| 3321 - 3340 | 5 5 5 5 5 6 6 6 6 6 6 5 7 9 11 12 8 8 7 5 | |
| 3341 - 3360 | 5 5 6 6 10 10 11 6 6 8 8 5 4 4 3 6 7 5 4 4 | |
| 3361 - 3380 | 5 4 6 3 4 5 5 7 9 8 8 10 8 8 6 4 5 6 6 12 | |
| 3381 - 3400 | 6 9 9 9 8 8 7 3 3 1 3 4 8 6 8 3 3 1 1 2 | Trip for Bit 6 @ 3397 |
| 3401 - 3420 | 3 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 3 3 1 | |
| 3421 - 3440 | 2 4 3 2 2 2 3 1 3 2 2 3 3 4 2 2 2 2 2 2 | |
| 3441 - 3460 | 1 1 3 4 3 2 2 2 1 2 2 2 3 3 2 2 2 2 2 3 | |
| 3461 - 3480 | 2 2 3 3 4 4 5 3 3 4 5 5 5 5 4 5 5 6 4 4 | |
| 3481 - 3500 | 7 6 7 6 5 6 5 5 5 3 2 4 4 3 6 5 6 5 4 4 | |
| 3501 - 3520 | 3 3 5 9 10 7 6 4 4 4 5 6 6 7 6 7 6 5 3 6 | |
| 3521 - 3540 | 6 4 5 7 8 6 8 5 4 3 4 5 2 4 4 5 5 5 4 5 | SR@3527 & 3531 |
| 3541 - 3560 | 5 6 4 4 4 3 5 5 5 4 4 5 5 3 2 3 3 4 3 3 | Vis 35, CFS @ 3560 |
| 3561 - 3580 | 2 4 5 4 5 4 3 4 2 3 4 3 4 3 3 4 4 3 5 4 | |
| 3581 - 3600 | 4 3 5 1 4 4 3 2 3 3 3 3 3 2 3 4 4 7 7 8 | |

15-145-20155-0000

Drilling Time Log continued on Cecil Johnson # 1, the SE, SE of the SW $\frac{1}{4}$ 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 |
| 3621 - 3640 | 7 7 11 6 13 14 10 11 9 7 10 10 7 4 4 9 10 9 9 9 | Mix Mud @ 3625 - 3630 |
| 3641 - 3660 | 10 7 6 4 6 7 8 11 9 8 8 9 11 10 12 11 7 9 11 9 | |
| 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 | 2 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 1 4 6 3 3 7 5 6 6 10 8 12 9 9 | SR3701-3707, R@ 3710-3711 |
| 3721 - 3740 | 11 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 @ 3763 |
| 3781 - 3800 | 7 6 6 5 8 7 8 7 10 8 6 6 7 9 10 10 9 8 10 14 | 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 |
| 3861 - 3880 | 15 13 16 18 16 15 16 18 13 16 15 28 25 25 8 6 7 13 5 5 | Vis 30 @ 3876 |
| 3881 - 3900 | 6 14 18 16 20 16 10 19 9 12 3 5 4 4 5 4 4 4 4 3 | Trip @ 3890 |
| 3901 - 3920 | 4 4 3 4 5 3 3 2 4 4 5 4 4 5 4 4 5 4 4 5 | |
| 3921 - 3940 | 4 4 3 4 3 4 4 4 4 3 4 3 3 2 3 5 4 3 7 5 | CFS @ 3940 for 1 hr. |
| 3941 - 3960 | 3 4 4 2 4 6 3 4 3 6 8 6 4 4 5 4 4 8 5 5 | 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 | 3 3 9 8 5 6 4 3 3 4 5 2 4 6 5 7 4 5 7 10 | CFS@ 4000 for 2 hrs. |
| 4001 - 4020 | 9 8 15 6 8 7 9 11 9 8 7 8 11 7 12 8 13 21 19 20 | CFS@ 4015 for 2 hrs. |
| 4021 - 4040 | 13 15 15 15 13 5 4 3 5 5 4 4 3 7 5 5 4 4 3 3 | Trip @ 4025 # 9 |
| 4041 - 4060 | 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 |
| 4061 - 4080 | 3 4 6 4 11 10 14 12 5 8 7 8 7 7 8 7 9 8 7 6 | CFS@ 4068 & 4073 |
| 4081 - 4100 | 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 |
| 4101 - 4120 | 7 5 5 6 5 8 6 9 4 8 6 4 7 6 7 7 5 6 5 3 | CFS@ 4110 SR@ 4113 |
| 4121 - 4140 | 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. |
| 4141 - 4160 | 4 6 5 5 5 4 8 6 6 10 10 6 6 6 4 4 8 7 8 4 | CFS @ 4145 1r. |
| 4161 - 4163 | 7 4 6 | CFS @ 4155 for 3 hrs. CFS @ 4163 for 7 hours. |

Stopped drilling at 10:54 p.m. July 12, 1970.

| | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--------------------|--|--|--|----------------------------------|--|--|--|
| PAWNEE COUNTY | | | | | | | | | | | | | | | |
| KANSAS | | | | | | | | | | | | | | | |
| 4 | | | | 3 | | | | 2 | | | | | | | |
| | | | | T. 22 S. | | | | # 1 State Hospital | | | | | | | |
| | | | | | | | | ☉ | | | | | | | |
| | | | | | | | | | | | | | | | |
| TOM ALLAN'S # 1 Brooks | | | | EHRlich DRILLING COMPANY'S # 1 Cecil Johnson | | | | | | | | | | | |
| 9 | | | | 10 | | | | 11 | | | | 12 | | | |
| ☉ | | | | | | | | | | | | | | | |
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| AMERADA OIL CORPORATION'S # 1 Odell now Rost | | | | | | | | | | | | ☉ | | | |
| | | | | | | | | | | | | GULF OIL CORPORATION'S # 1 Heago | | | |
| 16 | | | | 15 | | | | 14 | | | | 13 | | | |