

ROTARY ENGINEERING COMPANY
WELL LOGGING SERVICE
1221 MILE HIGH CENTER DIAL ACOMA 2-4279
DENVER 2, COLORADO

August 10, 1956



Humble Oil & Refining Company
P. O. Box 1268
Farmington, New Mexico

ATT: Mr. C. A. Janes

Gentlemen:

We are submitting to you three copies of composite prints of our hydrocarbon analysis log, together with Schlumberger log, on your Navajo "C" 1 well in San Juan County, New Mexico. The section logged was from 1570' to 8681'.

A description of the data shown on this log is given on the attached sheet.

In reviewing the results of our log we feel that all pertinent data contained is self-explanatory. If we can be of further service in the interpretation of this log please notify us and we will be glad to call on you at your convenience.

We wish to thank you and your personnel for the consideration and cooperation shown us in securing the information on this well.

Yours very truly,

ROTARY ENGINEERING COMPANY

A handwritten signature in cursive script, appearing to read "Olan T. Moore".

OLAN T. MOORE
Rocky Mountain Manager

b1

Distribution:

2 - Mr. H. L. Beckmann
Humble Oil & Refining Company
Box 1600
Midland, Texas

2 - Mr. R. W. Bybee
Humble Oil & Refining Company
Box 1287
Roswell, New Mexico

ROTARY ENGINEERING COMPANY
WELL LOGGING SERVICE
1501 MILE HIGH CENTER
DIAL AROUND EIGHT
DENVER 2, COLORADO



January 10, 1958

Mr. J. L. ...
P.O. Box 1000
Houston, Texas

Dear Mr. ...:

Reference:

We are submitting to you three copies of our log of the well in the ...
of our log of the well in the ...
on your log of the well in the ...
on your log of the well in the ...

A description of the data shown on this log is given on
the attached sheet.

In reviewing the results of the log we find that all the
information contained in this log is correct. It is our policy to
provide you with the information of this log as soon as possible
and we will be glad to call on you at your convenience.

We wish to thank you and your personnel for the cooperation
and assistance shown in securing the information on this well.

Very truly yours,

W. L. ...

...

W. L. ...
Rotary Engineering Company

cc

2 - Mr. J. L. ...
Houston, Texas
P.O. Box 1000
Houston, Texas

Distribution:
2 - Mr. J. L. ...
Houston, Texas
P.O. Box 1000
Houston, Texas

Humble Oil & Refining Co.

- 2 -

8-10-56

1 - Mr. H. C. Hougen
Houston Research Center
Box 2180
Houston, Texas

1 - Mr. D. E. Bell
Humble Oil & Refining Company
Box 2180
Houston, Texas

2 - U. S. Geological Survey
Farmington, New Mexico

1 - New Mexico Oil Conservation Commission
Artes, New Mexico

1. Drilling mud characteristics.
2. Bit record.
3. The drilling rate curve plotted in minutes per foot. It will be noted this is plotted so that on the drilling the curve approaches the left margin of the log.
4. Depth.
5. Lithology.
6. Mud properties column shown next to lithology column.
7. Indirect residual oil unit. This curve is obtained by applying solvent to the drill cuttings and evaluating by use of ultraviolet radiation the residual hydrocarbons collected on the color reaction plates.
8. The percentage of sample showing oil fluorescence when viewed under ultraviolet radiation. All mineral fluorescence is excluded from this evaluation.
9. Two gas curves secured from the cuttings and shown in "gas from cuttings" column. The dotted curve is obtained by analyzing the cuttings for oil combustible gases. The dashed curve is obtained by burning the gas at a predetermined reduced temperature. This curve represents oil combustible gases other than methane.
10. Two gas curves secured from the mud return stream are plotted from the left margin of "gas from mud" column with increasing values extending to the right. The dotted curve is obtained by analyzing the mud for oil combustible gases. The dashed curve is obtained by burning the gas at a predetermined reduced temperature. This curve represents oil combustible gases other than methane.
11. Oil analyses are run on each two feet of samples.
12. Gas analyses are run on each two feet of samples.
13. All cutting and mud samples are collected for on-the-hole tests.