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520 Petroleum Building

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CONSULTING GEOLOGIST  
1656 NORTH CLARENCE  
WICHITA, KANSAS

A. D. ALLISON & CO., INC., ET AL

#3 BERNSDEN

NE NE SW, SECTION 15-26S-4E

BUTLER COUNTY, KANSAS

By

D. J. COSTA

520 Petroleum Building

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 September 30, 1958

A. D. ALLISON & CO., INC. ET AL  
 #3 BERNSDEN  
 NE NE SW, Section 15-26S-4E  
 Butler County, Kansas

Elevation: 1300 D.F. 1302 R. B.

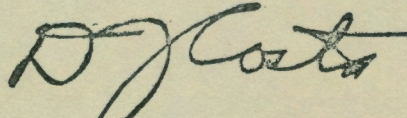
44  
 17  
 27

| <u>DEPTH</u> | <u>DESCRIPTION</u>   |
|--------------|--|
|              | <u>Top KANSAS CITY (Time Log) 2004 -702</u>  |
|              | <u>Top MARMATON (Time Log) 2272 -970</u>   |
|              | <u>Base MARMATON (Time Log) 2374 -1072</u>   |
| 2380-2404    | Mostly green shale, some red, trace gray fine micaceous sandstone.   |
| 2404-2406    | Gray green to dark gray shale, trace pyrite, some free small to medium grained rounded sand.<br><br>Circulated 30 minutes at 2406, no stain, odor or taste.      |
| 2406-2413    | Mostly gray-green shale, some rounded sand inclusions and some free sand.<br><br><u>Top WEATHERED CHERT ZONE 2413 -1111</u>                                      |
| 2413-2415    | Fresh white and mottled to brown stained weathered chert, some dark gilsonitic.<br><br>Circulated 30 minutes at 2415, good strong odor, free oil on fresh break. |
| 2415-2417    | As above.<br><br><u>Top SIMPSON 2417 -1115</u>   |
|              | Note: Rotary speed was reduced at approximately 2420.  |
| 2417-2444    | Abundance of free small to medium rounded clear sand, few clusters, trace free oil, wet sample, light tan stain dried sample.                                    |

| <u>DEPTH</u>                   | <u>DESCRIPTION</u>   |
|--------------------------------|--|
|                                | Zones of relative porosity interpreted from drilling time: 2422-28, 2430-35, 2439-44.  |
| 2444-2450                      | Gray-green shale, sand inclusions, much free sand.   |
| 2450-2455                      | Shale with sand inclusions as above.   |
| 2455-2457                      | White fine very hard semi-quartzitic sandstone.  |
| 2457-2468                      | Much free sand mostly gray-green shale with rounded sand inclusions.<br><br>Note: After trip at 2457, driller increased rotary speed. Relatively good drilling time could be due to new bit. However, if a Gamma Ray Log is run this zone should be evaluated. |
| 2468-2486                      | Much pale green shale, some rounded sand inclusions, much free rounded sand, few white hard very fine cemented sandstone.<br><br>Note: Free sand may have come from the soft shale.  |
| 2486-2490                      | This zone may be composed of the same type of sand described in the unit below.  |
| 2490-2495                      | Mostly medium grained angular free sand, few clusters very friable, no free oil in wet sample, light rich tan stain in dried clusters.<br><br>Note: The clusters from this zone may have been flushed since no free sand was discernible in the wet sample.    |
| <u>Top ARBUCKLE 2495 -1193</u> |  |
| 2495-2501                      | Greasy buff and white medium crystalline dolomite, trace tan stain.  |
| 2501-2510                      | Much white buff and tan finely crystalline to sucrosic dolomite, free oil wet sample, tan stain in dried sample.<br><br>Circulated 30 minutes at 2510, faint odor.   |

DISCUSSION and RECOMMENDATIONS:

If a Gamma Ray Log is run on this well the thickness of the sand, interpreted at 2457 to 2468 and from 2490-95 with the possibility it may extend as high as 2486, may be determined.

A handwritten signature in cursive script, appearing to read "D. J. Costa".


D. J. COSTA

# LANE-WELLS Company

## PERFORATION LOG

Company A. D. Allison  
 Well & No. Brandson #3  
 Location El Dorado  
 Depth 2495 Method L.W.  
 Date Perforated 10/3/58  
 Sales Order 20214  
 Casing Record 5 1/2"

Holes 64 Size 4" K/S  
 Runs 4  
 Truck & Operator 659 Bergquist  
 Remarks zero 5' above spider

FORM HO-190 10M 12-55  PRINTED IN U.S.A.

2400

2410

2420

2418

5

40 Holes

2428

2430

2430

5

24 Holes

2436

2440

2495  
PBT 2428  
67  
 Visofrac 5000 ASD