

DONALD J. MELLAND \* GEOLOGIST

Phones: CH 1-1675 CH 1-4582 \* Box 783 \* McPHERSON, KANSAS

KCC

JUN 30 1993

G E O L O G I C A L   R E P O R T

Litan & Warner  
Kasey "A" # 2  
NE NW NW, Sec. 35-19-3W  
Field: Johnson  
McPherson County, Kansas

May 8, 1969

Elevation: 1503 RB est.

Comm: 5/2/69; Comp: 5/7/69

Casing: 8-5/8" = 160'/115sx

5-1/2" = 3050'/50sx

FORMATION TOPS

Lansing  
Mississippian  
RTD

2348 (-845)

2947 (-1444)

3050 (-1547)

Cores: None

Drill Stem Tests: None

Electrical Logs: None

(All measurements taken from rotary bushing)

FORMATION SUMMARY

MISSISSIPPIAN

2952-2982 White and buff, sharp chert with included white and pale green, leached chert, broken poor to fair pinhole porosity, evidence of gas, small amount of light staining, no show of live oil, very faint odor. This is probably a depleted gas zone.

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3000-3032 White and buff, sharp and leached chert with included buff finely crystalline dolomite, poor with some fair porosity, show of live oil, uniform and spotted stain, evidence of gas, faint uniform and spotted stain, evidence of gas, faint odor. This zone should be evaluated on a gamma ray-neutron log and tested through perforations.

#### RECOMMENDATIONS

It is recommended that casing be set at a depth of 3050 feet and the recommended zone tested.

Respectfully submitted,

Donald J. Helland

DJM/f

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# DRILLING TIME

Litan & Warner  
Kasey "A" # 2

Sec. 35-19-3W  
NE NW NW

Elevation: 1503 RB est.  
McPherson County, Kansas

| Depth     | Time |   |   |   |   |   |   |   |   |   | Remarks |
|-----------|------|---|---|---|---|---|---|---|---|---|---------|
| 2250-2260 | 1    | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 |         |
| 70        | 1    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
| 80        | 1    | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |         |
| 90        | 1    | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 4 | 4 |         |
| 2290-2300 | 3    | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 |         |
| 10        | 2    | 2 | 2 | 2 | 4 | 4 | 5 | 5 | 3 | 3 |         |
| 20        | 2    | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |         |
| 30        | 2    | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 |         |
| 40        | 3    | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |         |
| 50        | 3    | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 3 |         |
| 60        | 4    | 3 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 4 |         |
| 70        | 3    | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 |         |
| 80        | 3    | 3 | 4 | 2 | 4 | 3 | 2 | 4 | 3 | 3 |         |
| 90        | 4    | 4 | 4 | 3 | 3 | 3 | 4 | 5 | 5 | 4 |         |
| 2390-2400 | 5    | 5 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 |         |
| 10        | 2    | 3 | 3 | 2 | 4 | 2 | 2 | 3 | 2 | 3 |         |
| 20        | 4    | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |         |
| 30        | 3    | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 |         |
| 40        | 2    | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 |         |
| 50        | 2    | 2 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 2 |         |
| 60        | 2    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |         |
| 70        | 2    | 1 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |         |
| 80        | 1    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
| 90        | 1    | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 3 |         |
| 2490-2500 | 2    | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |         |
| 10        | 3    | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |         |
| 20        | 3    | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 3 |         |
| 30        | 3    | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 2 |         |
| 40        | 2    | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |         |
| 50        | 3    | 4 | 2 | 3 | 4 | 4 | 4 | 3 | 3 | 3 |         |
| 60        | 3    | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 |         |
| 70        | 4    | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 6 |         |
| 80        | 6    | 5 | 6 | 6 | 6 | 5 | 3 | 4 | 4 | 4 |         |
| 90        | 3    | 4 | 4 | 4 | 5 | 4 | 3 | 4 | 3 | 3 |         |
| 2590-2600 | 3    | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 5 |         |

Trip @ 2392'

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| Depth     | Time |   |   |   |   |   |   |   |   |   | Remarks |
|-----------|------|---|---|---|---|---|---|---|---|---|---------|
| 2600-2610 | 4    | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 5 |         |
| 20        | 4    | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 3 |         |
| 30        | 3    | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 5 |         |
| 40        | 4    | 6 | 4 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |         |
| 50        | 5    | 5 | 4 | 5 | 4 | 5 | 5 | 5 | 5 | 5 |         |
| 60        | 6    | 5 | 5 | 3 | 2 | 4 | 4 | 2 | 2 | 2 |         |
| 70        | 1    | 1 | 2 | 1 | 2 | 1 | 1 | 3 | 4 | 5 |         |
| 80        | 4    | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |         |
| 90        | 4    | 5 | 5 | 3 | 4 | 4 | 3 | 3 | 3 | 3 |         |
| 2690-2700 | 4    | 4 | 5 | 4 | 3 | 5 | 5 | 4 | 5 | 5 |         |
| 10        | 5    | 5 | 5 | 5 | 4 | 4 | 4 | 3 | 4 | 5 |         |
| 20        | 5    | 6 | 6 | 7 | 6 | 7 | 4 | 3 | 3 | 4 |         |
| 30        | 6    | 6 | 6 | 7 | 7 | 5 | 4 | 4 | 3 | 2 |         |
| 40        | 4    | 3 | 2 | 3 | 4 | 4 | 5 | 4 | 3 | 3 |         |
| 50        | 2    | 3 | 3 | 2 | 2 | 3 | 3 | 4 | 3 | 4 |         |
| 60        | 4    | 3 | 3 | 3 | 2 | 4 | 4 | 2 | 2 | 2 |         |
| 70        | 2    | 1 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 |         |
| 80        | 2    | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |         |
| 90        | 3    | 3 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 3 |         |
| 2790-2800 | 4    | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 |         |
| 10        | 3    | 3 | 5 | 4 | 4 | 3 | 1 | 2 | 1 | 2 |         |
| 20        | 1    | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |         |
| 30        | 4    | 5 | 5 | 5 | 5 | 3 | 2 | 2 | 4 | 4 |         |
| 40        | 3    | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 |         |
| 50        | 2    | 1 | 3 | 2 | 5 | 5 | 6 | 3 | 3 | 3 |         |
| 60        | 4    | 4 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 1 |         |
| 70        | 2    | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 2 | 4 |         |
| 80        | 4    | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 |         |
| 90        | 5    | 5 | 4 | 5 | 4 | 3 | 3 | 3 | 3 | 1 |         |
| 2890-2900 | 1    | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 |         |
| 10        | 2    | 3 | 4 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |         |
| 20        | 3    | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 5 | 4 |         |
| 30        | 2    | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 3 | 3 |         |
| 40        | 1    | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |         |
| 50        | 2    | 2 | 2 | 2 | 1 | 3 | 2 | 4 | 4 | 8 |         |

Trip # 2725'

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| Depth     | Time |    |   |   |   |   |   |   |   |   | Remarks       |
|-----------|------|----|---|---|---|---|---|---|---|---|---------------|
| 2750-2960 | 18   | 15 | 4 | 2 | 2 | 2 | 2 | 2 | 1 | 4 |               |
| 70        | 2    | 2  | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 |               |
| 80        | 3    | 4  | 4 | 5 | 3 | 4 | 9 | 3 | 3 | 2 | Trip @ 2977'  |
| 90        | 3    | 3  | 6 | 6 | 4 | 6 | 4 | 3 | 3 | 5 |               |
| 2990-3000 | 3    | 5  | 4 | 4 | 2 | 1 | 2 | 3 | 2 | 2 |               |
| 10        | 2    | 2  | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 |               |
| 20        | 4    | 3  | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | Circ. @ 3015' |
| 30        | 1    | 2  | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 4 |               |
| 40        | 4    | 2  | 3 | 5 | 5 | 5 | 6 | 4 | 4 | 4 |               |
| 3040-3050 | 4    | 3  | 2 | 2 | 4 | 4 | 5 | 5 | 6 | 5 | Circ. @ 3050' |

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