

*File
21 files
#1 Barnum
- Hank*

February 11, 1963

Whitestone Petroleum Corporation
900 Vaughn Building
Dallas, Texas

Gentlemen:

This report is a summary of our interpretation of the Continuous Dipmeter on your M. L. Barnum #1 in Sec. 30-32S-31W Seward County, Kansas.

The accompanying log is a visual record of the dip and direction computed from the Continuous Dipmeter. This log has been marked where depositional patterns of increasing or decreasing dip with depth are apparent. Also included is a plot of dip direction frequency over the Morrow and Mississippian formations logged. This frequency plot is interpreted as direction of deposition which is undoubtedly related to pre-depositional and depositional structure.

Beneath the objective sand 5555' to 5564' there is a pattern of decreasing dips with depth. This pattern is frequently observed immediately below an unconformity. For this reason, we suggest this sand is Basal Morrow. Above the sand we have marked a pattern of increasing dips with depth. This pattern is characteristic of drape or slump structure and possible connection distortion over a sand bar. We interpret this pattern to define the crest of the bar south of this well and a strike of N 75 W - S 75 E. Further exploration for this sand should be on strike or just south of the strike line. Structure dip direction concluded from the dip direction frequency analysis in the Morrow is S 25 E. Further exploration for this sand should be up dip on depositional strike or just south of the strike line. A well in the N $\frac{1}{2}$ of Sec. 25-32S-32W should find this sand better developed and structurally higher.

The dip direction frequency diagram of the Drum, Marmaton, Cherokee and Atoka interval, 4613' to 5070' is interpreted to indicate north dip. A well in the S $\frac{1}{2}$ of Sec. 30-32S-31W should find this interval structurally higher. Since several shows exist in this interval it is suggested that definite possibilities exist for exploitation in the section. Specifically the Drum 4640' to 50', Rodgers 4847' to 64' and Marmaton 4996' to 5011' and 5064' to 80' should be

watched closely if a well is drilled in S $\frac{1}{4}$ of Sec. 30-32S-31W or on strike in SE $\frac{1}{4}$ of Sec. 25-32S-32W.

The St. Louis appears to be dipping southeast and is expected to be structurally higher to the northwest. A pattern of increasing dips with depth from 5850' to 5901' is interpreted to be a drape pattern over the porosity zone 5901' to 5960'. If this zone is Oolitic, we would conclude it is probably banked on strike north - south and thins to the east. This zone is not expected to be well developed to the west.

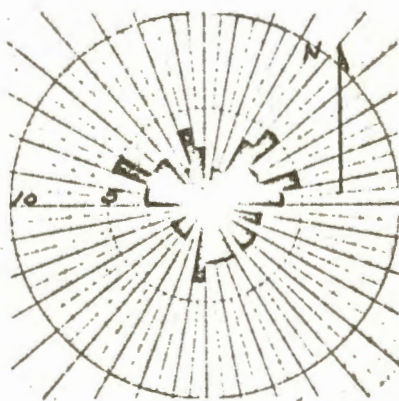
This interpretation represents our best judgment. Nevertheless, since all interpretations are opinions based solely on inferences from electrical or other measurements, we cannot and do not guarantee the accuracy or correctness of any interpretation and shall not be liable or responsible for any loss, cost damages, or expenses that may be incurred or sustained resulting from this or any other interpretation.

Thank you for using this service. If we can be of further assistance please let us know.

SCHLUMPERGER WELL SURVEYING CORP.

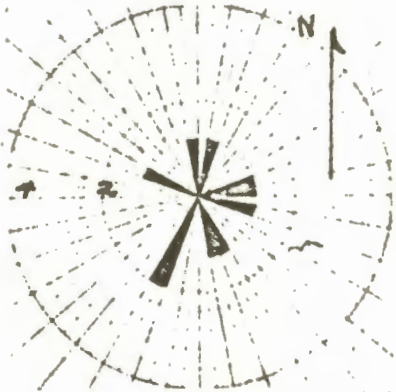

Fred C. Williams

FGW/elb

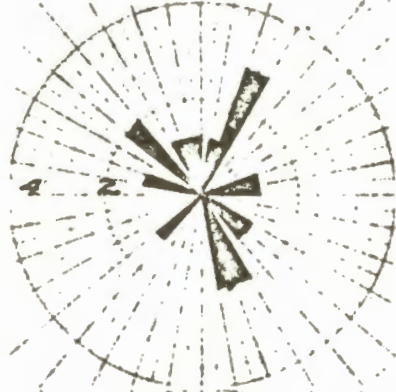


PENNSLYVANIAN (PARTIAL)
4613-5470

DIP DIRECTION FREQUENCY ANALYSIS
WHITESTONE PETROLEUM CORPORATION
M. L. BARNUM #1.
SEC 30-32S-31W
SEWARD COUNTY, KANSAS



MORROW FORMATION
5473-5551



CHESTER FORMATION
5565-5709



STE. GENEVIEVE
FORMATION
5748-5894



ST. LOUIS FORMATION
5901-6029



ALL MISSISSIPPIAN
FORMATION
5565-6029

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