

# Sean Deenihan

## Petroleum Geologist

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY Arcadian Resources, LLC  
 LEASE Liam #2-19  
 FIELD \_\_\_\_\_  
 LOCATION 1650' FSL & 335' FEL  
 SEC 19 TWP 8 S RGE 32 W  
 COUNTY Thomas STATE Kansas  
 CONTRACTOR Duke Drilling Rig #4  
 SPUD \_\_\_\_\_ COMP \_\_\_\_\_  
 RTD 4740' LTD 4742'  
 MUD UP \_\_\_\_\_ TYPE MUD Chemical  
 SAMPLES SAVED FROM 3700' TO RTD  
 DRILLING TIME KEPT FROM 3700' TO RTD  
 SAMPLES EXAMINED FROM 3700' TO RTD  
 GEOLOGICAL SUPERVISION FROM 3450'  
 REFERENCE WELL CND/DIL, MIC

Fm Name	21181-4-ft	21181-4-ft	21181-4-ft	21181-4-ft	21181-4-ft
JANHOPE *	SD	2,730	394	2,730	Equal
B. JANHY *	SD	2,756	368	2,756	
HEEBNER *	SD	4,073	-949	4,073	
LIANSING *	SD	4,111	-887	4,111	
STARK *	SD	4,318	-1,194	4,318	
MARMATON *	SD	4,400	-1,276	4,400	
PAWNEE *	SD	4,486	-1,362	4,486	
FT. SCOTT *	SD	4,552	-1,428	4,552	
CHEBROKE *	SD	4,595	-1,461	4,595	
MISSISSIPPI *	SD	4,578	-1,554	4,578	

REMARKS Based on sample analysis, DST results, log evaluation, and relative structural position, the Liam #2-19 will be further evaluated through production casing.

Respectfully Submitted,

Sean P. Deenihan

