SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Electrical Log

COUNTY	BANNER
FIELD or LOCATION	OSTGREN SEC. 32-17N-54W
WELL	OSTGREN #12
COMPANY	PAN AMERICAN PETROLEUM CORP.

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WELL	OSTGREN #12
FIELD	OSTGREN
LOCATION	C SW SE SEC. 32-17N-54W
COUNTY	BANNER
STATE	NEBRASKA

Location of Well: ML JUL 15 1957

Elevation: D.F.: K.B.: 4825 or G.L.: 4815

FILING No.

RUN No.	ONE				
Date	5-29-57				
First Reading	6135				
Last Reading	398				
Feet Measured	5737				
Csg. Schlum.	398				
Csg. Driller	398				
Depth Reached	6136				
Bottom Driller	6137				
Depth Datum	KB				
Mud Nat.	CHEM-GEL				
" Density	10				
" Viscosity	101				
" Resist.	3.7 @ 75°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.8 @ 156°F	@ °F	@ °F	@ °F	@ °F
" pH	8 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	6.2 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	156				
Bit Size	7-7/8"				
Spcgs.—AM	16"				
A M'	64"				
AO	18'8"				
Opr. Rig Time	2-1/2 HOURS				
Truck No.	1564 KIM				
Recorded By	PETTIT				
Witnessed By	MR. REPP				

FOLD HERE

REMARKS: MUD SAMPLE FROM FLOW LINE

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	RESISTIVITY -ohms. m²/m	RESISTIVITY -ohms. m²/m
− 20 +	CSG. 398	0 NORMAL 50 / 0 LATERAL 50 / 0 AMPLIFIED NORMAL 10	0 LONG NORMAL 50

− 20 +	FR: 6135 / TD: 6136	0 AMPLIFIED NORMAL 10 / 0 SHORT NORMAL 50 / 0 LATERAL 50	0 LONG NORMAL 50

PAN AMERICAN PETROLEUM CORP.
OSTGREN #12
SEC. 32-17N-54W
BANNER CO., NEBR.
ELEV: 4825' K.B.

QUANTITATIVE ANALYSIS

Below are tabulated some average values of porosity and water saturation calculated from your logs on this well. Since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of these values.

The pages from the Schlumberger Interpretation Chart Book which were used for these calculations are listed for your convenience.

ZONE	EFFECTIVE POROSITY Ø in %	WATER SATURATION S_w in %	PROBABLE PRODUCTION	PAGES USED (SWSC Chart Book)
6056 to 6066	20	50	Oil & Water	A-10, C-4, C-12, D-2
to				
to				
to				
to				
to				