

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE - TDP	NA	+1199		0
ANHYDRITE - BASE	NA	700		+1
TOPEKA	NA	2818	-940	+3
HEBNER	NA	3168	-1290	+5
TORONTO	NA	3188	-1310	+5
DOUGLAS	NA	3202	-1324	+6
BROWN LIME	NA	NA		
LANSING	NA	3303	-1425	+4
BKJ	NA	3542	-1641	+5
VIOLA	NA	3551	-1673	+4
SIMPSON SH	NA	3612	-1734	+5
ARBuckle	NA	3667	-1789	+5
TOTAL DEPTH	3800	3792	-1914	-41

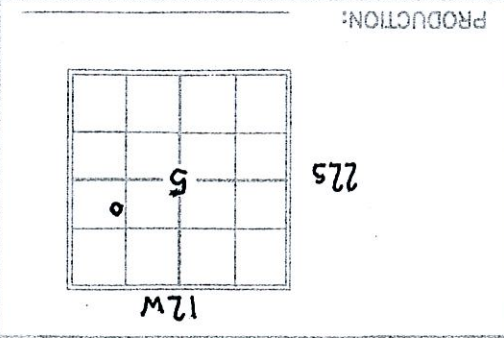
REFERENCE WELL FOR STRUCTURE CHARTER ENERGY INC. TEICHMANN 'A' #1

WELL: TEICHMANN 'DWO' #1-5
 FIELD: WILDCAT
 LOCATION: 1866' FNL 1242' FEL
 COUNTY: STAFFORD
 STATE: KANSAS
 COMPANY: MURFIN DRILLING Co.
 MUD CO/SERVICE MUD
 CONTRACTOR: MURFIN DRILLING CO. RIG #21
 COINTEGRATED: 21 JUNE 14
 CASING RECORD: 8 5/8 @ 287' PRODUCTION 5 1/2 @ 3191'
 SURFACE: 3800
 TOTAL DEPTH DRILL: 3792
 TOTAL DEPTH LOG: 3792

API: 15-185-23632-00-01
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CHARLES SCHMALTZ
 CONSULTING GEOLOGIST
 WICHITA, KANSAS
 GEOLOGIC REPORT LOG



DRILLING MEASURED FROM

TO 3800	3760	RB
TO 3800	3753	RB
TO 3800	3760	RB

SAMPLES SAVED FROM

TO 3800	3753	TO 3800
TO 3800	3760	TO 3800

DRILLING TIME KEPT FROM

TO 3800	3753
TO 3800	3760

SAMPLES EXAMINED FROM

TO 3800	3760
TO 3800	3760

GEOLOGICAL SUPERVISION FROM

TO 3800	3760
TO 3800	3760

DRILL STREAM TESTS

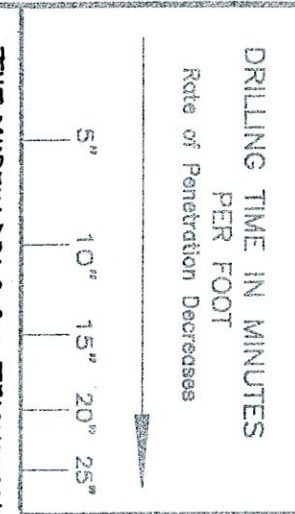
TO 3800	3760
TO 3800	3760

NA
 DIL
 CML / CIL
 MEL / BHCS

FORMATION TOPS & STRUCTURAL POSITION

LEGEND

- Anthracite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool Lime
- Chert
- Dolomite

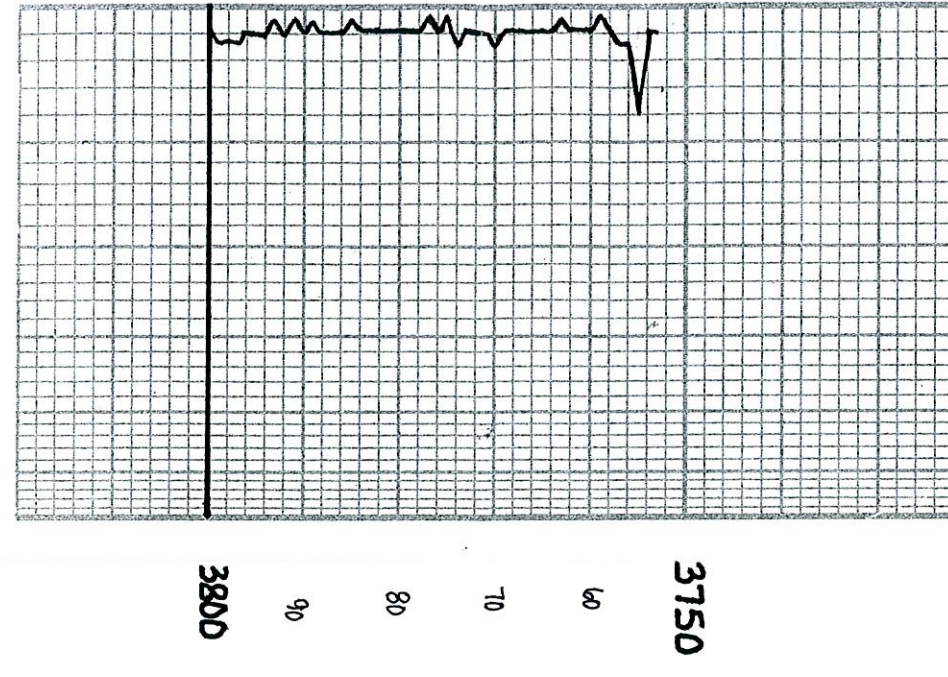


DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
5"				
10"				
15"				
20"				
25"				

LOG 7710

THE MURFIN DRILL CO TEICHMANN 'DWO' #1-5 WAS A WASHDOWN OF THE CHARTER ENERGY INC TEICHMANN 'A' #1. THE WELL WAS DRILLED DEEPER TO 3800'. SEE THE CHARTER ENERGY INC GEOLOGICAL REPORT FOR DRILLING TIME AND SAMPLE DESCRIPTIONS FROM 2800' TO 3750'.

DEVIATION SURVEYS ARE LISTED TO THE RIGHT. THERE WERE NO PIPE STRAPS A 25 STAND SHORT TRIP WAS PULLED AT 3800' PRIOR TO RUNNING A NEW SUITE OF LOGS.



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
5"				
10"				
15"				
20"				
25"				

DEVIATION SURVEYS

- @ 581' : 0.5°
- @ 1033' : 0.5°
- @ 2081' : 0.4°
- @ 2811' : 1.0°
- @ 3384' : 2.2°
- @ 3753' : 1.2°

RTD 3800 (-1921)