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**GEOLOGIC
 REPORT
 LOG**

COMPANY *Downing-Nelson Oil Co., Inc.*

WELL *Tammy B #1*

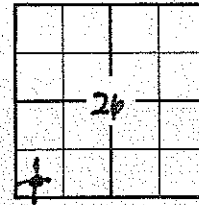
FIELD *WILDCAT*

LOCATION *575' ESL 9830' FWL*

SEC. *26* TWP. *11S* RGE. *23W*

COUNTY *TREBO*

STATE *KANSAS*



PRODUCTION

ELEVATION KB *2387'*

DF

GL *2379'*

Drilling Measured From: *KB*

Samples Saved From *3600* To: *TD*

Drilling Time From *3200* To: *TD*

Samples Examined From *3600* To: *TD*

Geological Supervision From *3600* To Total Depth

Wellsite Geologist *Ron Nelson*

Electrical Surveys *MAGSAS DENSITY-NEUTRON
 MICRO, SEMIC, DUAL INDUCTION*

OPERATOR *DNOCI*

CONTRACTOR *DISCOVERY DRILLING RIGHTS*

COMM: *3-25-13* COMP: *3-31-13*

CASING RECORD

SURF: *8 5/8" @ 221'* PROD: *NONE*

TOTAL DEPTH DRILLERS: *4150'*

TOTAL DEPTH LOG: *4150'*

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
TOP ANHYDRITE	1842	1842	+545	-7
BASE ANHYDRITE	1886	1886	+501	-9
TD PERA	3395	3394	-1007	-17
HEEBNER	3614	3613	-1226	-20
TORONTO	3638	3634	-1247	-19
LKC	3649	3647	-1260	-20
BKC	3886	3880	-1493	-21
MARMATON	3989	3988	-1601	-19
CHELDKEE SHALE	4039	4039	-1652	-30
CHELDKEE SAND	4054	4054	-1667	-30
ARBUCKLE	4085	4086	-1709	-27

REFERENCE WELL FOR STRUCTURE *DNOCI'S TAMMY A#1 @ 2370' FWL*
2225' FWL 26-11-83

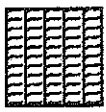

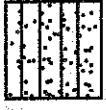
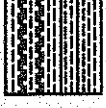
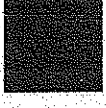
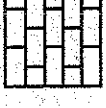
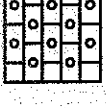
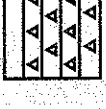

DRILL STEM TESTS

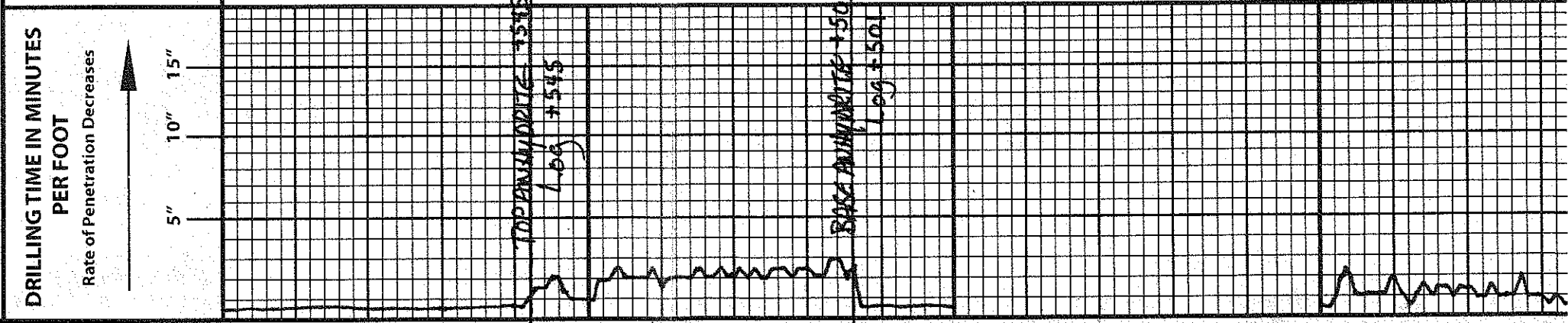
No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHP-FHP	RECOVERY

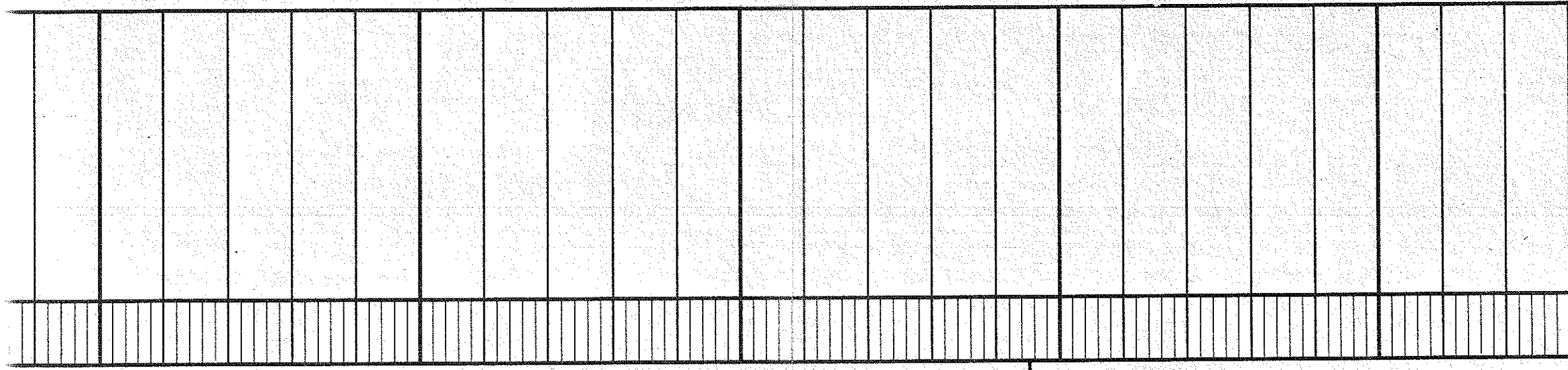
REMARKS AND RECOMMENDATIONS *THIS TEST WAS A SEISMIC BUST & MUCH TOO LOW TO PRODUCE.*

Ron Nelson

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Ool.Lime
-  Chert
-  Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
 <p> TOP ANHYDRITE - 1515 LOG 1545 </p> <p style="text-align: center;">50</p> <p style="text-align: center;">1900</p> <p style="text-align: center;">3200</p> <p> BASE ANHYDRITE - 1501 LOG 1501 </p>	<p>1500</p>	<p style="text-align: center;">50</p> <p style="text-align: center;">1900</p> <p style="text-align: center;">3200</p>			



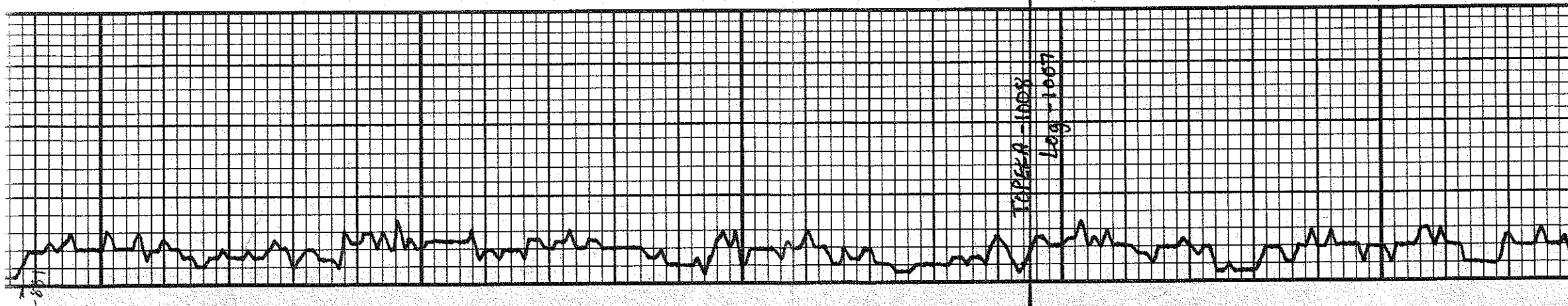
50

3300

50

3400

50



TAPER A - INDEX
Log 1007

ARMUKLE TRW 1602
LOG 1601

4000

CHEROKEE SHALE

652

LOG 1652

50

CHEROKEE SAND 1667
LOG 1667

ARMUKLE 1708
LOG 1709

4100

50

4200

S.S. orangey Brn

l. calc. - tan to light brown
pr. w/ l. s. w/ s. imp. w. s.
mud

l. s. wh. - tan sm br. s. / dol. in s.
xyly w/ l. calc. p. s. s. / bl. s. / ad
mud. calc. s. s.

oo. oo. s. & m. s. in s. w/ calc.
ch. calc. s. s. / ch. calc. s. s.

AA. v. v. s. m. s. / m. s. / g. r. s.
w/ calc. s. s. / ch. calc. s. s.

fine gr. m. s. / ch. calc. s. s.
w/ calc. s. s.

S.S. calc. s. s. / ch. calc. s. s.

fl. s. s. / m. s. / v. s. / s. s. / sand s.
cl. s. s. / m. s. / ch. calc. s. s. / m. s. / no
od. s. s. / m. s. / ch. calc. s. s. / m. s. / no
xyly - calc. s. s. / ch. calc. s. s. / m. s. / no

AA. s. s. / ch. calc. s. s. / m. s. / no

ch. calc. s. s. / m. s. / ch. calc. s. s. / m. s. / no
m. s. / ch. calc. s. s. / m. s. / no
w/ calc. s. s. / ch. calc. s. s. / m. s. / no

S.S. calc. s. s. / ch. calc. s. s. / m. s. / no

970 y. w.

oo. oo. s. s. / ch. calc. s. s. / m. s. / no

int. xyly / m. s. / ch. calc. s. s. / m. s. / no

m. s. / ch. calc. s. s. / m. s. / no

oo. oo. s. s. / ch. calc. s. s. / m. s. / no

AA. s. s. / ch. calc. s. s. / m. s. / no

fl. s. s. / m. s. / ch. calc. s. s. / m. s. / no

oo. oo. s. s. / ch. calc. s. s. / m. s. / no

oo. oo. s. s. / ch. calc. s. s. / m. s. / no

oo. oo. s. s. / ch. calc. s. s. / m. s. / no

Ran Nelson

	<p style="text-align: center;">DEPTH</p>	<p style="text-align: center;">LITHOLOGY</p>	<p style="text-align: center;">SAMPLE DESCRIPTIONS</p>	<p style="text-align: center;">OIL SHOWS</p>	<p style="text-align: center;">REMARKS</p>
<p>CONTRACTOR <u>Discovery Drilling Rig # 3</u> LOCATION <u>575' E. 1/4 Sec 830' Foot</u></p> <p>LEASE <u>Tenny B. #1</u> IP <u>0.4A</u> SEC <u>26</u> TWP <u>11S</u> RING <u>23W</u></p> <p>ELEVATION <u>2387' KB</u> RTD <u>4450'</u> COUNTY <u>TRICK</u> STATE <u>KANSAS</u></p>					