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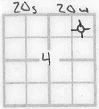
GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co., Inc.

WELL Melvin Jennings #1-4
FIELD Wildcat
LOCATION 770' FNL & 790' FEL
SEC. 4 TWP. 20s RGE. 20w
COUNTY Pawnee
STATE Kansas



PRODUCTION D&A
ELEVATION KB 2238
DF
GL 2231
Drilling Measured From: KB
Samples Saved From 4050 To: TD
Drilling Time From 3650 To: TD
Samples Examined From: 4050 To: TD
Geological Supervision From 3650 To Total Depth
Wellsite Geologist Marc Downing
Electrical Surveys Log-Tech
CNL/CDL
DIL
MEL
Sonic

OPERATOR DNOCI
CONTRACTOR Discovery Drilling, Rig #4
COMM: COMP: 2-7-12

CASING RECORD

SURF: 8⅝" @ 520' PROD: None
TOTAL DEPTH DRILLERS: 4456
TOTAL DEPTH LOG 4457

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1422	1421	+817	+12
Base Anhydrite	1450	1449	+789	NA
HEEBNER	3742	3742	-1504	+25
Lansing	3745	3788	-1550	+29
BKC	4045	4045	-1847	+36
Fort Scott	4264	4263	-2025	+42
CHEROKEE SH.	4274	4276	-2038	+45
Miss	4346	4345	-2107	+58
Gilmore City	4416	4415	-2177	Not Reached

REFERENCE WELL FOR STRUCTURE O.A. Sutton
Miller #1 C-SW-NW Sec. 4-20s-20w

DAILY PENETRATION		BIT RECORD						
DATE	DEPTH	NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS	
			Ø	S W

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FHH	RECOVERY

REMARKS AND RECOMMENDATIONS ____________________

7515

LEGEND

- ▦ Anhydrite
- ▦ Salt
- ▦ Sandstone
- ▤ Shale
- ■ Carb sh
- ▦ Limestone
- ▦ Ool.Lime
- ▦ Chert
- ▨ Dolomite

REMARKS

OIL SHOWS

SAMPLE DESCRIPTIONS

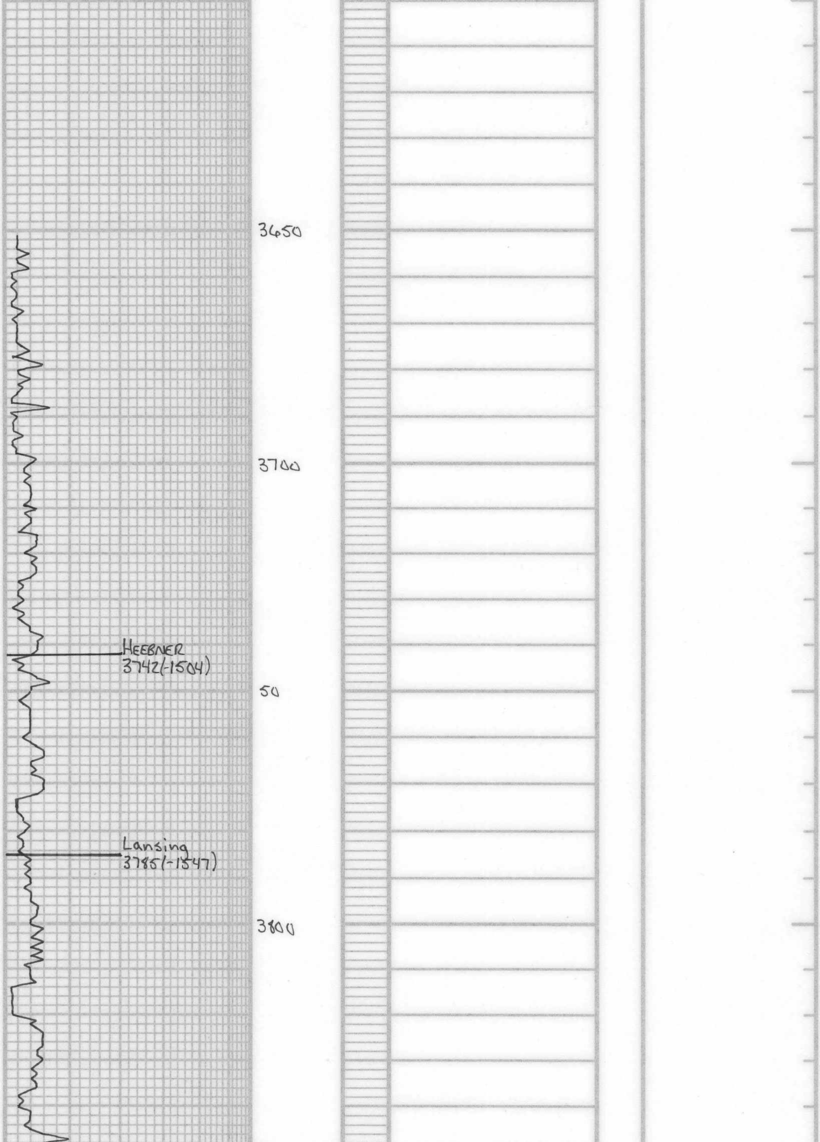
LITHOLOGY

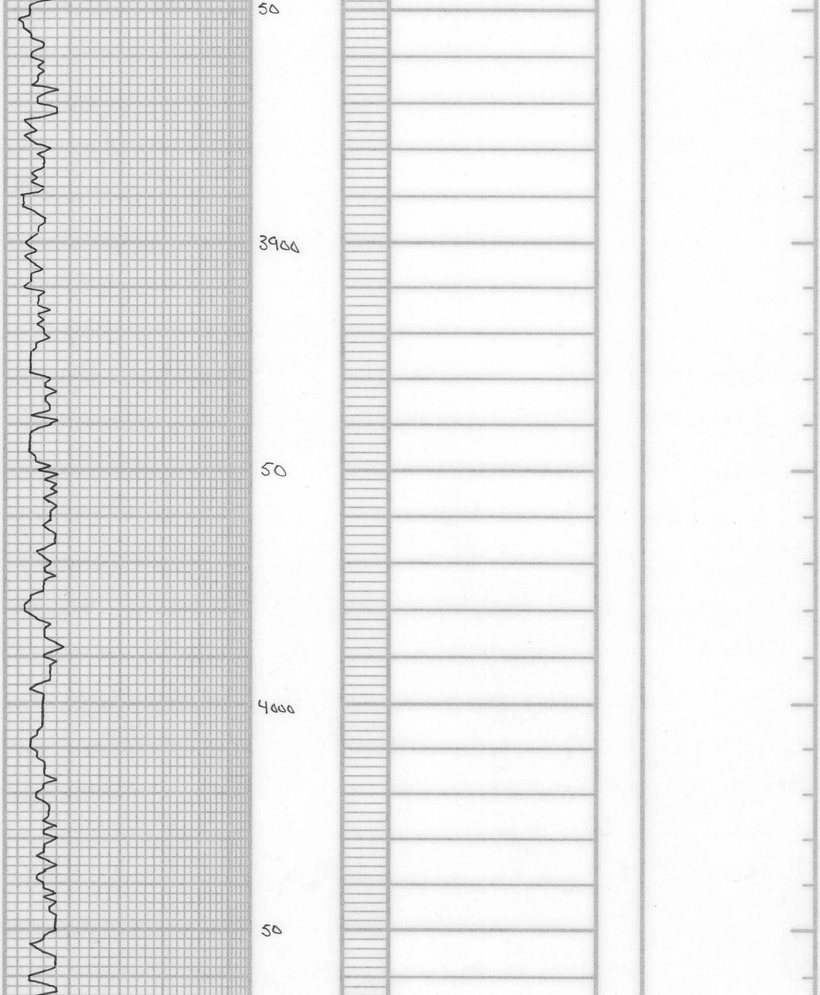
DEPTH

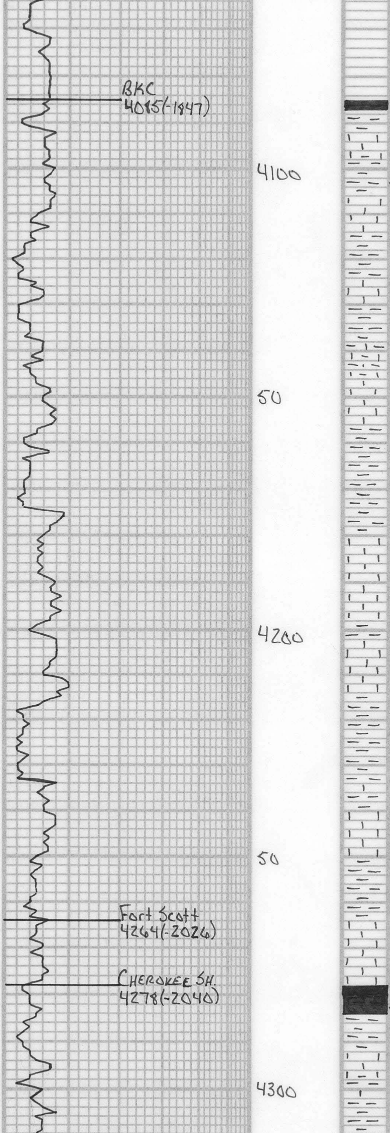
DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases

5" 10" 15" 20" 25"

LOG 7710







Sh: Black Carb

LS: wht, Fn xln, prø, scat sml Foss.

Sh: gry

LS: wht, Fn-md xln. prø, Foss A1A

Sh: gry

LS: tan-wht, Foss, mostly dns. 3-4 rx w/ Fr oocø, Barren.

Sh: gry

LS: wht-tan, Fn-md xln, prø w/ scat Foss + ool. lt gry shp chts.

Sh: drk gry - blk.

Sh: gry

LS: wht - tan, Fn-md xln, few foss, All dns w/ prø

LS: tan-wht, md xln, v Foss, prø + dns. scat wht chts.

Sh: drk gry - blk

LS: tan-wht, md-crs xln, lrg foss. No vis ø.

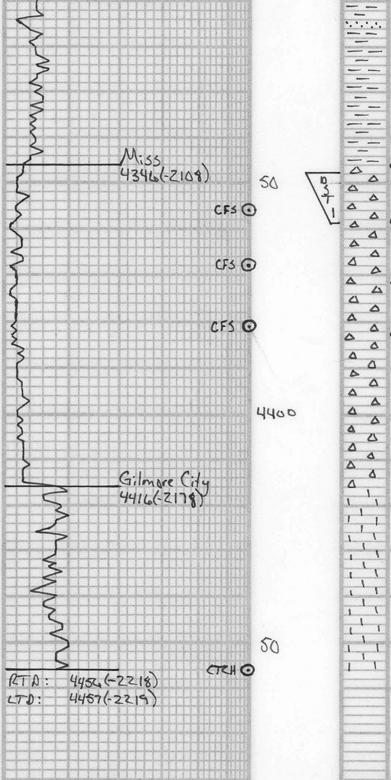
Sh: drk gry w/ blk.

LS: wht, Fn-vfn xln, prø, dns. Few sub xln rx, All prø, Totally barren.

Sh: Black Carb

Sh: gry

LS: tan-wht, prø, mostly dns. 1 pc w/ lt brn stn, NSFO, No Od.



SS: wht-clr, sub rnd, well sort, wht mtx, NS. Pr$, tite

Sh: gry w/ brn, scat yel. washes sltly red.

Cht: wht w/ some yel. Mostly shp, scat weath rx, trng mostly fresh. Totally barren, No Od, vpr-No Fluor.

Cht: wht, fresh + shp, scat clr v weath rx. 10% dns LS. Totall barren, pr-No Fluor in cht, Fr Fluor in LS. No Od.

Cht: Mostly wht, fresh, shp. Scat slt weathering, 4-5 clrpcs w/ gd weath. All totally barren, No Od, No fluor - pr fluor. Scat LS A/A.

Cht: Mostly A/A, wht, fresh + shp. All Totally barren.

LS: wht-lt tan, fn-md xln, pr$ + dns. Tot barren

DST #1
4348-4359
45-45-45-45
I.F.-BOB 32½ min
F.F.-BOB 38 min
IFP: 29-48
FFP: 92-144
SIP: 1327-1297
HP: 2248-2110
Rec:
20' wm 20% w
243' mw 90% w
BHT: 123°