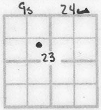
Marc Downing
Consulting Petroleum Geologist
1411 Washington Circle
Hays, Ks 67601
Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co, Inc.

WELL Nickelson Farms "C" #1-23
FIELD Wildcat
LOCATION 990' FNL & 1525' FWL
SEC. 23 TWP. 9s RGE. 24w
COUNTY Graham
STATE Kansas



PRODUCTION LKC

ELEVATION KB 2436
DF
GL 2428

Drilling Measured From: KB

Samples Saved From 3700 To: TD
Drilling Time From 3450 To: TD
Samples Examined From: 3700 To: TD
Geological Supervision From 3450 To Total Depth
Wellsite Geologist A.Downing, M.Downing
Electrical Surveys Superior
CNL/CDL
DIL
MEL

OPERATOR DNOCI
CONTRACTOR Discovery Drilling, Rig #1
COMM: COMP: 2-1-12

CASING RECORD

SURF: 8⅝" @ 221 PROD: 5½" @ 4034
TOTAL DEPTH DRILLERS: 4035
TOTAL DEPTH LOG 4034

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	NA	2062	+372	+12
Base Anhydrite	NA	2096	+340	NA
Topeka	3516	3512	-1076	+6
HEEBNER	3733	3730	-1294	+6
Toronto	3758	3754	-1318	+8
LKC	3774	3770	-1334	+7
BKC	3994	3990	-1554	+7

REFERENCE WELL FOR STRUCTURE Energy Three, Inc.
Nickelson #1 SE-NW-NW Sec. 23-9s-24w

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

FORMATION	INTERVAL	DESCRIPTION OF SHOW	LOG ANALYSIS Φ	LOG ANALYSIS S W

DRILL STEM TESTS

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

REMARKS AND RECOMMENDATIONS

LEGEND

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

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases

5" 10" 15" 20" 25"

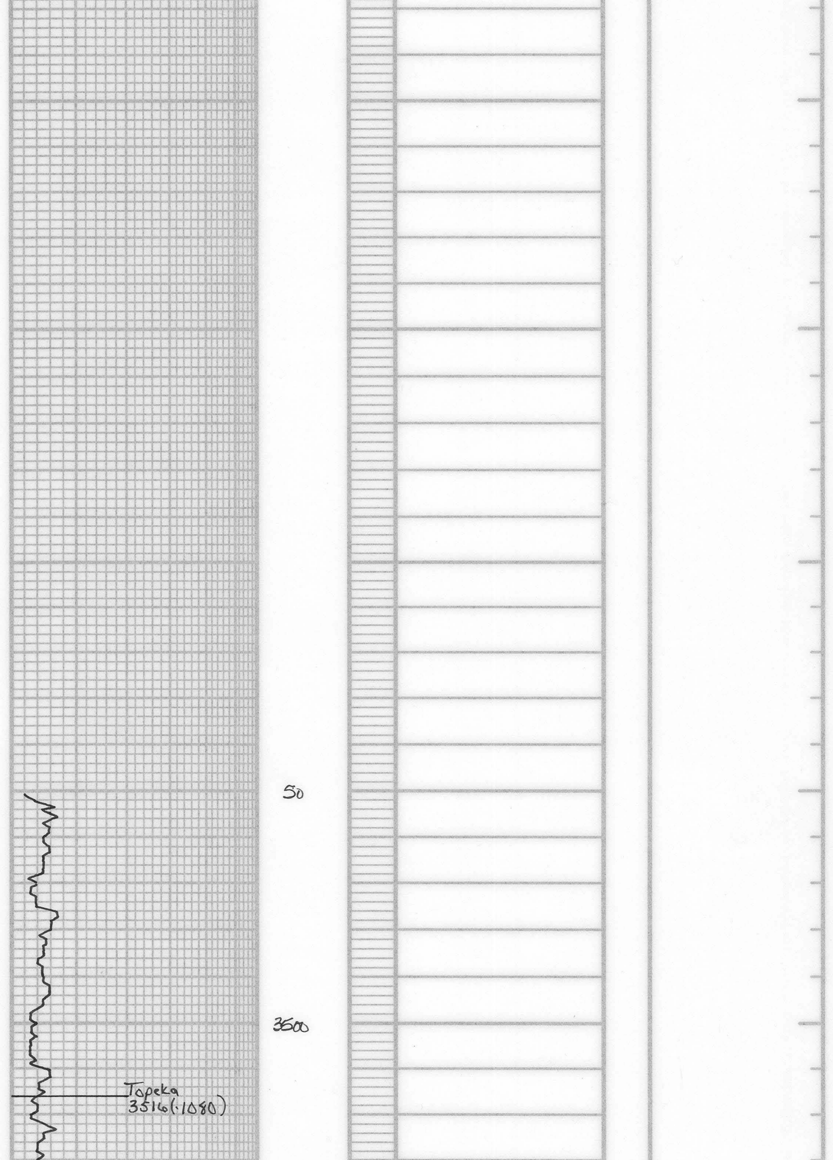
DEPTH

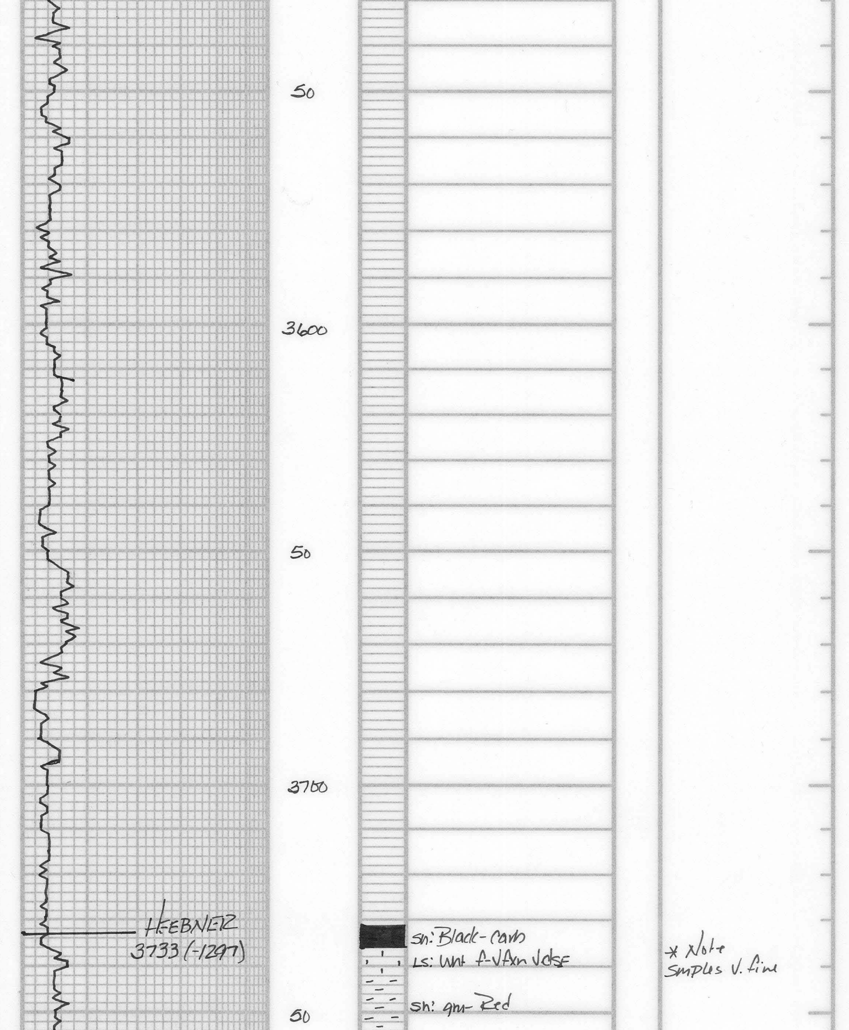
LITHOLOGY

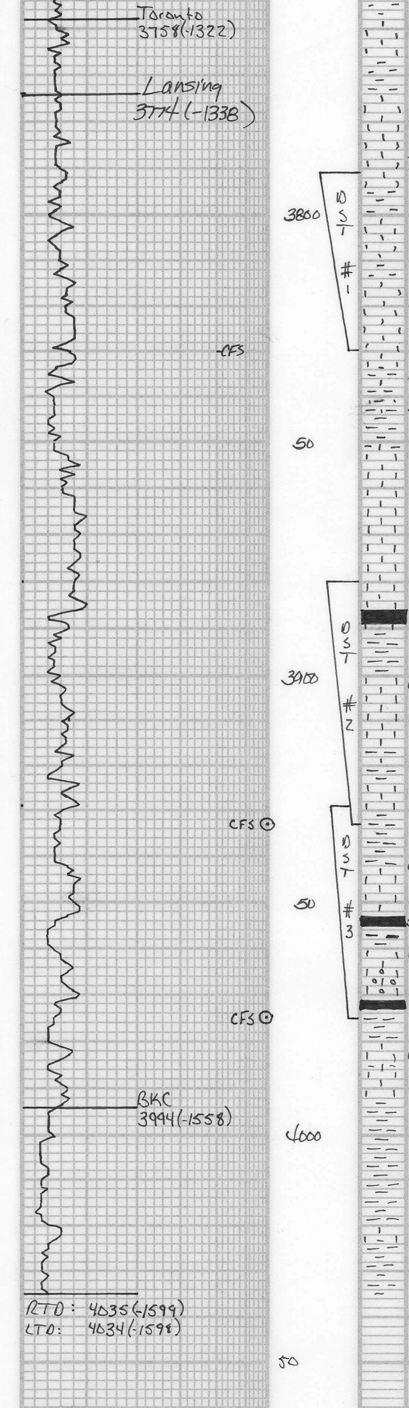
SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS







Ls: Wht fxln w/good ool-oocoø No show- mostly all tite v. foss + ool.

Sh: grn- Brown

Ls: Wht v. ool slt dolomitic w/good ool -ø No show becoming v. tite w/ lge amt Tan- orange Δchert

Sh: Red- Brown

Ls: Wht dolo. v. ool to fair ool ø. w/ v. spt. SFO, faint odor mostly Barren- v. fine smpls

Ls: Wht f-vfxln all v. dse w/ fewpcs wht Lt Tan Δchert.

Sh: drk gry- blk

Sh: gry w/ brn scat tan LS stringers

LS: Wht- tan, md xln, dolom w/ ool. Fr int xlnø, subxln in prt. Fr stn w/ Fr SFO, lrg pyt cubes, No Od.

LS: wht, Fn-mdxln, scat foss. All prø + dns, Tot barren.

Sh: Black Carb

Sh: gry

LS: wht, v Foss w/ scat ool, dolom in prt. Fr-gd int Fossø w/ scat Fr vugs. gd lt brn stn w/ Fr SFO, lt-Fnt Od.

Sh: gry

LS: wht- tan, tot Foss, gd int Fossø w/ gd vugø. Fr-gd sat stn w/ scat gd SFO, Fnt- lt Od.

Sh: brn w/ gry

LS: wht, md xln, ool w/ few foss. Pr- Fr int ool + Fossø, tite. pr- Fr stn, sptd SFO, vug in prt, No Od.

Sh: Black Carb

LS: wht, tot ool, md- lrg ool. scat Fr-gd int oolø w/ few vugs, scat v tite ex w/ No ø. Fr-gd lt brn sat stn, Fr SFO, Fnt Od.

Sh: Black Carb

Sh: gry

LS: wht, Fn-md xln, sub xln in prt, scat resid stn, NSFO, No Od.

Sh: gry w/ brn

LS: tan, dns

Sh: brn

Vis: 60 Wt: 8.9

DST #1
3791-3830
30-30-30-30
IFP: 17-19
FFP: 19-20
SIP: 426-287
HP: 1827-1792
Rec:
5' vsocm 3%o
BHT: 98°

DST #2
3880-3933
30-45-45-60
I.F.- BOB 13 min/Surf SIB
F.F.- BOB 21 min
IFP: 41-124
FFP: 131-216
SIP: 798-738
HP: 1905-1869
Rec:
310' Mw w/ oil scum 95%w
124' Mw w/ oil scum 60%w
BHT: 108°

DST #3
3929-3975
45-45-45-45
I.F.- 6" blow
F.F.- 5" blow
IFP: 33-49
FFP: 44-57
SIP: 914-880
HP: 1922-1910
Rec:
62' GIP
62' GMO 5%g, 95%o
BHT: 108°