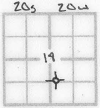
Marc Downing
Consulting Petroleum Geologist
1411 Washington Circle
Hays, Ks 67601
Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co., Inc.

WELL Marvin Saxton #2-18
FIELD Wildcat
LOCATION 1410' FSL + 2310' FEL
SEC. 18 TWP. 20s RGE. 20w
COUNTY Pawnee
STATE Kansas



PRODUCTION D&A

ELEVATION KB 2209
DF
GL 2201

Drilling Measured From: KB
Samples Saved From 4050 To: TD
Drilling Time From 3600 To: TD
Samples Examined From: 4050 To: TD
Geological Supervision From 3600 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: 1-30-12

CASING RECORD

SURF: 8⅝" @ 520' PROD: None
TOTAL DEPTH DRILLERS: 4500
TOTAL DEPTH LOG 4500

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	1394	1394	+815	-13
Base Anhydrite	1423	1422	+787	-13
HEEBNER	3713	3715	-1506	-12
Lansing	3763	3764	-1555	-11
BKC	4074	4076	-1867	-19
Fort Scott	4262	4264	-2055	-17
CHEROKEE SH.	4275	4276	-2067	-15
CHEROKEE SAND	4322	4323	-2114	NA
Miss	4345	4347	-2138	-34
Osage	4372	4373	-2164	-41
Gilmore City	4402	4403	-2194	Not Reached

REFERENCE WELL FOR STRUCTURE DNOCI
Marvin Saxton #1-18 2130' FSL + 1140' FEL Sec. 18-20s-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

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases

5"
10"
15"
20"
25"

DEPTH

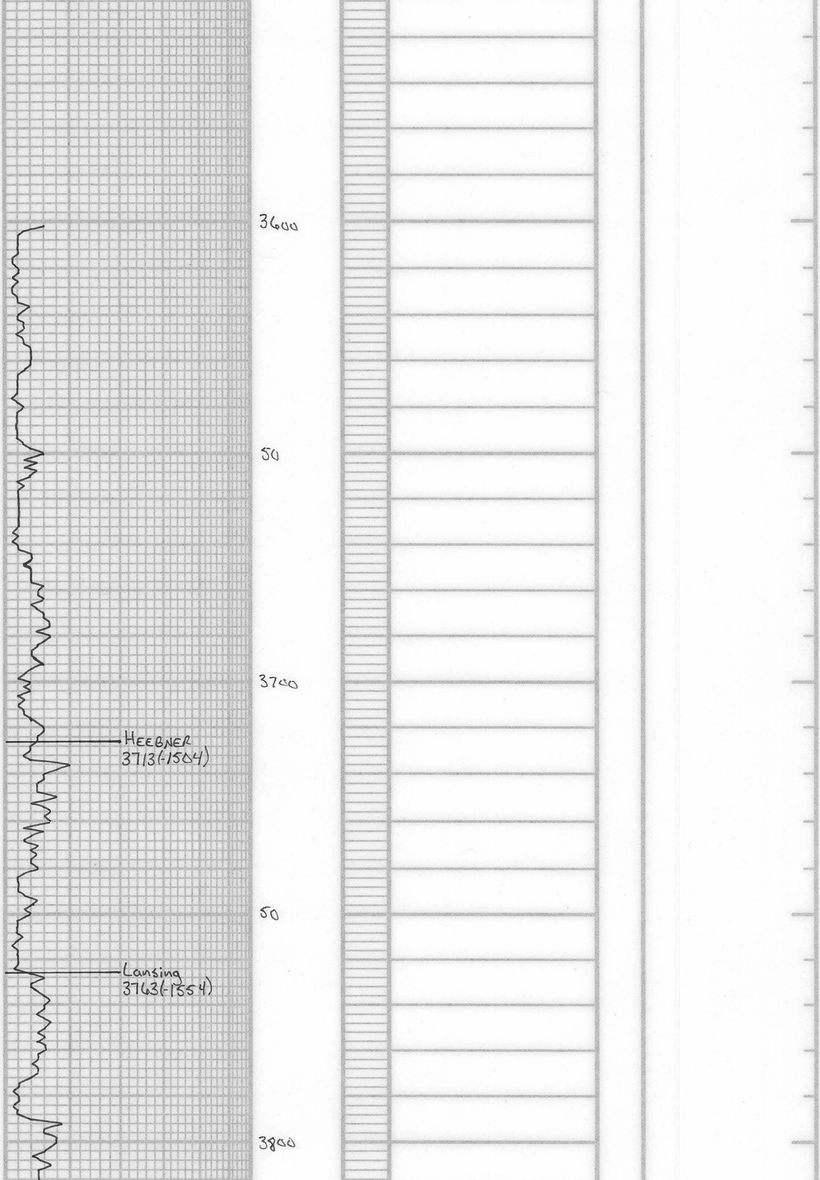
LITHOLOGY

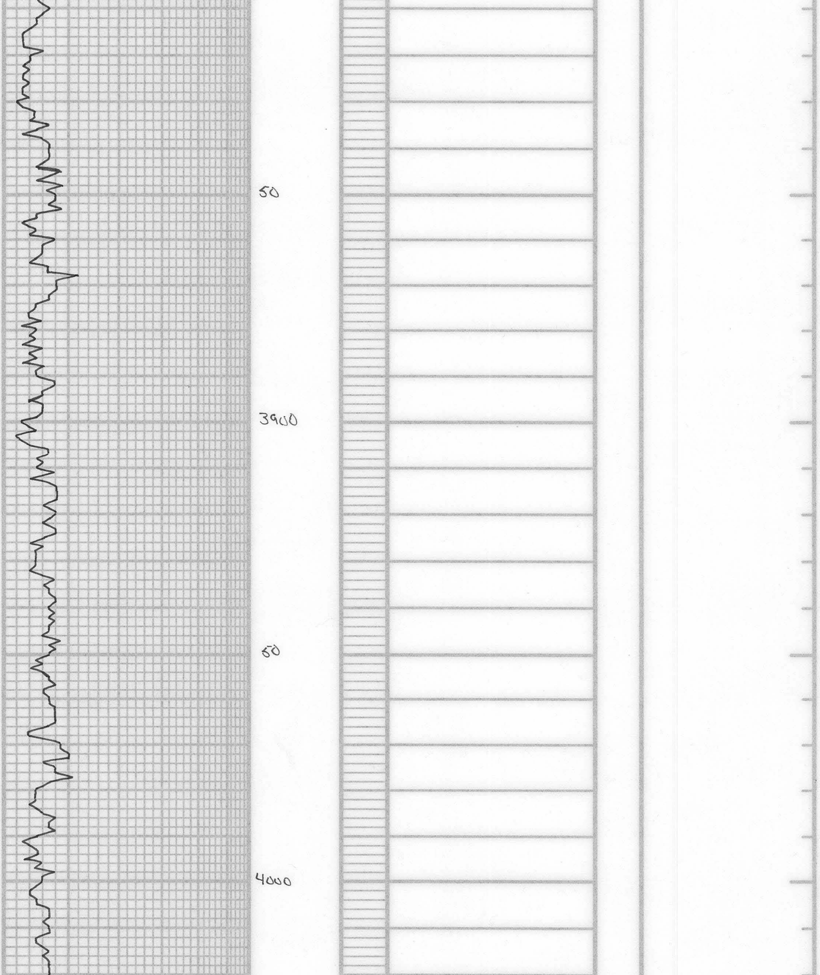
SAMPLE DESCRIPTIONS

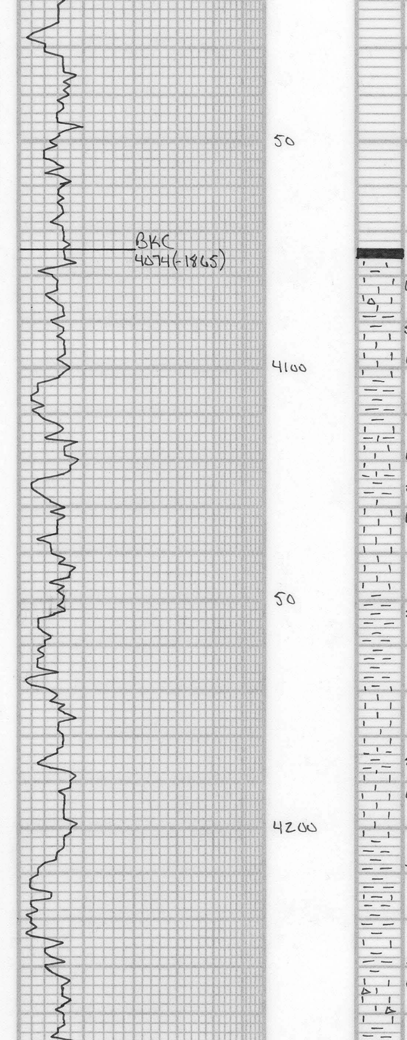
OIL SHOWS

REMARKS

LOG 7710







Sh: Black Carb

LS: wht-tan, fn xln, sub xln, mostly dns, tan chta.

Sh: gry

LS: wht, fn-vfn xln, scat foss, prø.

Sh: gry

LS: tan-brn + wht, fn xln, dns

Sh: gry

LS: wht, fn-md xln, subxln-chlky, foss. Scat fracø, trng dns w/ prø. All NS.

Sh: drk gry-blk

LS: wht, fn-vfn xln, prø, dns.

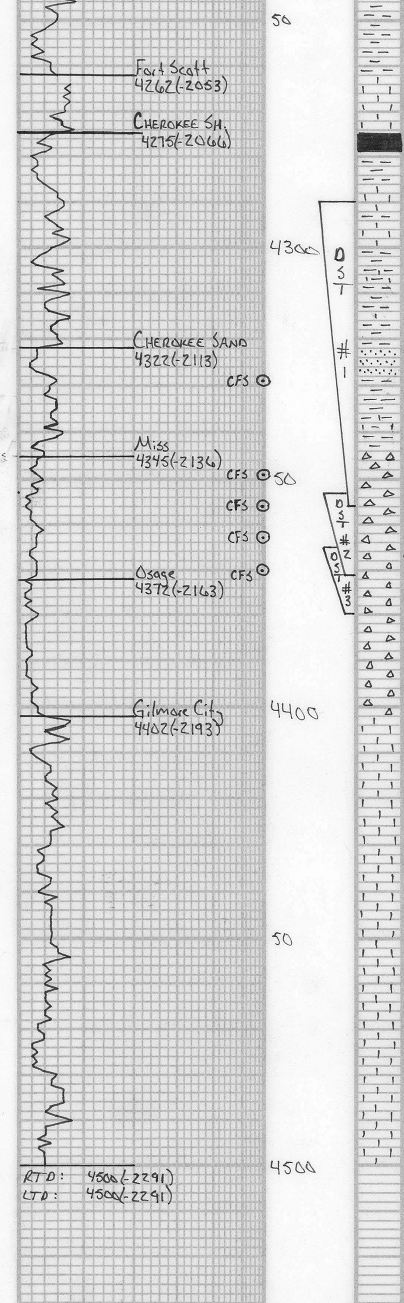
Sh: gry

LS: wht, m[illegible]cm AIA, few sub xln rx.

Sh: drk gry-blk

Sh: gry

LS: tan-wht, md xln, scat foss. Prø + dns, gry chta.



Sh: Black Carb

LS: wht-tan, mostly vFn xln, Few sml Foss. All vdns w/ pr⌀, NS

Sh: Black Carb

Sh: gry

LS: tan, Fn-mdxln, dns

LS: Trng wht, sub xln in prt.

Sh: brn + gry w/ some lt grn + yel

SS: Clr clust, scat org grains. pr-Fr sort, Ang, Fr IG⌀, Friable. Fr blk sat, pr-Fr SFO, Sltly hvy. No Od, No Fluor. Sltly dirty. · 1 unit

gr + brn shales w/ dns tan LS. Scat Frly cemented SS clust. NS.

Cht: wht-tan, Frly weath, dolom in prt. Fr Amt shp yel. weath chts w/ Fr-gd brn stn, Fr sat in Few rx, spttd SFO. Fr-gd Od, scat gd grn Fluor. : 2

Cht: Some AIA, trng gd vug⌀, scat fresh + shp wht. gd brn stn w/ gd SFO, gd Od, gd grn Fluor. FO on cup. : 4

Cht: Trng Fr amt wht, shp, w/ 50% weath + vug⌀ on edge. Fr-gd brn stn, Fr Fluor, Fr Od. . 2

Cht: Trng mostly wht, 50% shp + Fresh. little weath, scat lt stn, NSFO, No Od. pr-Fr Fluor, dull. . 2

Cht△: wht, Fresh + shp, gd frac⌀, 1-2 rx w/ pr edge stn, pr-No Fluor, pr-No Od.

Cht: AIA, trng totally barren, No Od, No Fluor.

LS: wht, Fn xln, pr⌀, dns. Trng subxln, All NS.

LS: wht - lt tan, Fn-md xln, All pr⌀ + tite. Tot barren. Rx sub xln in prt.

LS: Mostly AIA, rx tite w/ pr⌀, subxln in prt. Totally barren.

Vis: 53 wt: 9.2

DST #1
4290-4356
30-30-30-30
IFP: 25-31
FFP: 36-36
SIP: 1072-995
HP: 2185-2097
Rec:
30' vsocm 5%o
BHT: 108°

DST #2
4353-4371
30-30-30-30
IFP: 20-24
FFP: 28-32
SIP: 1241-1163
HP: 2252-2111
Rec:
15' vsocm 5%o
BHT: 107°

DST #3
4365-4380
15-30-15-30
I.F.- BOB 1 min
F.F.- BOB 1 min
IFP: 179-685
FFP: 776-1135
SIP: 1369-1367
HP: 2291-2026
Rec:
120' socwm 5%o, 5%w
120' socwm 5%o, 40%w
300' socw 2%o
1885' w
BHT: 127°