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GEOLOGIC REPORT LOG

COMPANY Downing-Nelson Oil Co, Inc.

WELL Bellart #1-12

FIELD

LOCATION 880 FSL & 400' FWL

SEC. 12 TWP. 14S RGE. 19W

COUNTY Ellis

STATE Kansas

OPERATOR DNOCI

CONTRACTOR Downing Drilling, Rig #3

SPUD 10-4-13 COMP. 10-14-13

CASING RECORD

SURF. 8⅝" @ 222' 5½" @ 3844'

TOTAL DEPTH DRILLERS: 3846'

TOTAL DEPTH LOGGER: 3836'

14S 19W

12

PRODUCTION

ELEVATION GR 2182

KB 2187

DF

KB 5

Elevation Measured From KB

Total Depth Driller 3850 TD

Total Depth Logger 3850 TD

Type Fluid in Hole Chemical Mud

Logging Engineer Mark Downing

Logging Unit Number Ambers

CASING/CORE

SURF. DEL

MEC.

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	ELECTRIC LOG	SUB-SEA DATUM	STRUCTURAL POSITION
Topeka	3182	3182	-1000	+5
Heebner	3430	3430	-1248	+5
Toronto	3449	3449	-1267	+5
LKC	3503	3504	-1321	+5
BKC	3737	3737	-1554	+5
Arbuckle	3825	3825	-1642	+5
Top Anhydrite		1991	+735	
Base Anhydrite		1955	+771	

REFERENCE WELL FOR STRUCTURE DNOCI

Bellart #1-12 630' FSL & 1520' FWL Sec. 12-14S-19W

DRILL STEM TESTS

No.	Interval	DP/Size	DC/Size	Hole Size	IHP/IFP	BHP/FBP	RECOVERY

REMARKS AND RECOMMENDATIONS

LEGEND

REMARKS

DST #1
3371-3413
45-45-45-45
FF: 2" blow
FF: 1" blow
ISI: 1144
FFP: 14-23
FSI: 1144
IHP: 1695-1652
FHP: 1666-1649
Rec:
90' mcw w/ oil spots
Sam: 100% mw
DST #2
3414-3446
45-45-45-45
FF: 1/4" blow
FF: 1/4" blow
ISI: 1144
FFP: 14-24
FSI: 1144
IHP: 1696-1666
FHP: 1666-1666
Rec:
360' GIP
20' oil
60' clean oily mcw
Sam: 100% mw 6% o
DST #3
3447-3505
30-45-30-45
FF: 1" blow
FF: 1" blow
ISI: 1144
FFP: 13-24
FSI: 1144
IHP: 1743-1717
FHP: 1717-1699
Rec:
10' GIP
10' clean oil
Sam: 100% o
DST #4
3501-3536
30-45-30-45
FF: 1/4" blow
FF: 1/4" blow
ISI: 1144
FFP: 14-24
FSI: 1144
IHP: 1745-1707
FHP: 1707-1684
Rec:
5' GIP
40' clean oily mcw
3% clean oil
Sam: 100% o

OIL SHOWS

SAMPLE DESCRIPTIONS

LITHOLOGY

DEPTH

DRILLING TIME IN MINUTES PER FOOT

Toronto 3449(-1267)
LKC 3504(-1321)
Arbuckle 3825(-1642)
RTD 3846(-1718)
LTD 3836(-1708)