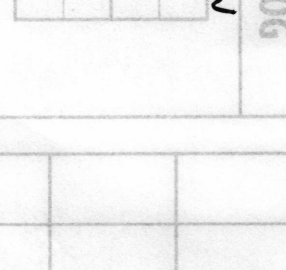


COMPANY: Downing-Nelson Oil Co., Inc.
 WELL: Permian Aunit # 1-20
 FIELD: Wildcat



LOCATION: 1440' ECL - 750' FUL
 SEC. 20 TWP. 14S RGE. 18W

ELEVATION: 2103'
 DB: 2045'
 GI: 2103' RB

COUNTY: Ellis
 STATE: Kansas

DRILLING MEASURED FROM:
 To: TD
 From: 3050 To: TD
 To: TD
 From: 3050 To: TD

OPERATION: NJOCE
 CONTRACTOR: DeSoto Drilling
 COMM. 10-12-13
 CASING RECORD: 3100
 PROD. 5 1/2 @ 3711'

Geological Supervision: Marc Downing
 Wellsite Geologist: Alan Downing
 Recorder: Alan Downing
 CDNK/GSE - Microlog

SURF: 8 1/2 @ 6.84
 TOTAL DEPTH DILLERS: 3800'
 TOTAL DEPTH LOG: 3801'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	STRAT. TOP	ELECTRICAL TOP	SUBSEA DEPTH	STRUCTURAL POSITION
Anhydrite Base	1528	1330	+773	
Topoka	3102	3102	-994	+3
Hedrick	3354	3355	-1252	+5
Toronto	3376	3377	-1274	+4
ARC	3404	3404	-1301	+6
ARC	3634	3634	-1531	+7
ABUCKLE	3716	3716	-1613	NA

REFERENCE WELL FOR STRUCTURE: W14500 EUTERNALES Zone #1 @ SW-CW 20-14-58

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	IRP/PP	RECOVERY

REMARKS AND RECOMMENDATIONS

LEGEND



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
30				
3100		Ls: wnt fm - sh. subyn foss. NS - all DSE Awd fragmental foss.		
		Sh: gm - Brown Ls: Tan f-mxn w lots flintbeds - poor & No sh		
		Sh: Brown-gm		
50		Ls: Tan lt. fm f-mxn wld pp-sh vug & No show - No odor - totaly zone		
		Sh: Black - carb		
		Sh: gm - Brown		
		Ls: lt. gm - fm Awd scatt foss mostly DSE		
		Ls: Hgm - m. gbxn w wnt chky inclusions -		
3200		Ls: lt. gm v. chky w foss frags interbed - all v. soft - few lites ll.		
		gm fm Ls. - NS. l fossil frags. foss - animals		
		Sh: Brown		
		Ls: Tan - off wnt f-mxn w foss frags throughout NS - gm		
50		Ls: wnt - fm DSE w much interbedded wnt ONLY Ls: few fossils		
		Sh: gm - fm		
		Ls: Tan v. fm v. DSE		
		Sh: Black - carb		
		Sh: gm - lt. gm		
3300		Ls: Tan - off white f-suan w No show - ONLY in pt. w scatt intemp		
		Sh: gm - wnt fm Ls. interbed		
		Ls: wnt fm w scatt frag v. soft fm - lt. odor -		
		Ls: Tan f-mxn w good interbed gd SFD, gsy. strong odor w total lite fm sat. fm.		
		Sh: Black - carb		
50		Ls: wnt v. fm v. DSE		
		Sh: gm - Brown		
		Ls: wnt fm DSE w some subyn to ONLY inclusions NS.		
		Sh: gm - Brown-green - Red		
3400		Ls: wnt fm DSE 1-2 pcs wnt clv Awd		
		Ls: gm - lt. gm v. foss w v. soft stm. NS to - No odor much DSE		
		Sh: gm		
		Ls: Tan fm v. good ool + ool sfo. lgr ool. poss Anapls w strong odor - gsy. wnt Bkn.		
		Ls: wnt fm w fr. interbed - ool w/ SFD - fr. gd odor - cl on simple cap - some lgr foss frags. w/ gd sfo - gd fm - total sat. fm		
		Ls: v. foss tan w good SFD in good foss - ool + ool. odor some total Bmsat - fm chky Rx also in section		
		Sh: gm - Brown		
3500		Ls: wnt fm w fr. ool + ool No vis show - barren		
		Ls: wnt fm v. fm all v. DSE w few interbedded gm ool DSE Ls.		
		Sh: Black - carb		
		Ls: wnt lt. Tan fm w scatt interbed & v. soft. fm - Bkn SFD - No odor		
50		Sh: gm		
		Ls: wnt fm w fr. ool + ool SFD v. faint odor 1-2 pcs total fm sat. barren wnt v. fm v. DSE		
		Ls: Tan fm w good ool + ool w/ gd SFD - strong odor w total Bkn - sat. in some Exs		
		Ls: tan - w. v. soft micryl w v. ns. privy to ns.		
		Sh dk gray nry blk		
3600		Ls: tan fm w good ool + ool SFD v. faint odor 1-2 pcs total fm sat. barren wnt v. fm v. DSE		
		Dns tan - crng micryl Ls no app. ns.		
		Ls fm wnt fm w fr. ool + ool SFD v. faint odor 1-2 pcs total fm sat. barren wnt v. fm v. DSE		
		gry dk gray st micryl + d. wh. tan ns w/ p. ns		
50		RD # BRASH		
		Dns tan - H. Bkn ns w/ p. ns		
		Sh rest rd Bkn		
		Pupes ch. sm ool. Anapls ool Ls no app. ns.		
		Pupes ch. w. tan rd Bkn frsh ns.		
		Dns ch. v. lgr dirty w/ sold blk d. sm. fm. ns. sm. sh. ss		
3700		absent shs in str. fm gry w/ ch. pupes rd. wnt a. w/ sm. int. fm. Ls st. ns.		
		Dolo tan, fr. suc. - rhom. xyl right pr - fr. xyl. SFD - fr. Bkn. Bkn. sp. xyl. sm. fm. sat. Bkn. tan		
		Dolo wnt - gm. fr. suc. rhom. xyl Bkn. fr. xyl. Bkn. sm. Dolo. gry. rhom. xyl. f. sh. fm. sat. Bkn. xyl. sm. sm. sl. gassy wnt on broken		
50		Dolo wh. - lt. gm. rhom. xyl gd xyl. Bkn. ss. to. sl ool. to. to. to. Bkn. int. xyl sm		
		Dolo gry. - tan. md. rhom. xyl fr. - fr. xyl. rare. g. sh. Bkn. sm. ss. to. sl. ool		
		tan. rd. fm. sm. crng. xyl md. rhom. xyl. fr. xyl. Bkn. most acc. barren v. sl. od rare. sfo. (carry over)		
		Barren tan. dolo. md. rhom. xyl. fr. ns		
		a. e.		

VS 50
 wt B.5
 NL B.O.
 LCM 1 1/2

DST #1
 3310 - 3340
 45-45-45-45
 Rec:
 5' gip
 55' 50gcm
 50mil - 0.90gas

IHP: 1574
 IFP: 15-28#
 FFP: 26-36#
 SIP: 1044-1044#
 FHP: 1577#

DST #2
 3412 - 3441
 30-30-30-30
 Rec:
 2800' gip
 140 gas 4 or 1
 120 HOGCM
 20mil - 4.69gas

IHP: 1683#
 IFP: 31-64#
 FFP: 72-105#
 SIP: 768-747#
 FHP: 1548#
 Temp: 109.0F

DST #3
 3434 - 3464
 15-30-30-45
 Rec:
 15' clean oil (39mil)
 60' gpmw
 (20mil - 4.0% wnt)
 60' 50gcmw
 (57mil - 6.5% wnt)

376' mw
 110k ppm
 485' gip

IHP: 1665#
 IFP: 31-122#
 FFP: 127-254#
 SIP: 718-648#
 FHP: 1591#

DST #4
 3459 - 3482
 30-30-30-45
 Rec:
 65' gip
 5' CO (40mil)
 430' mw

IHP: 1677#
 IFP: 28-142#
 FFP: 145-221#
 SIP: 603-562#
 FHP: 1620#

DST #5
 3515 - 3573'
 14"-30"-15"-30"
 1st op Bkn 15sec.
 1st SI Bkn 4"
 2nd op - Bkn 1" 675g
 2nd SI Bkn 1"
 IHP 135-387
 FFP 394-545
 SIP 1169-1104
 HP 1710-1609
 RC C 675
 1475' C GO
 120' HOGCM
 3070G: 30% O: 40% Bm
 BHT 13° Grad 40°