Tim J. Lauer

Petroleum Geologist

Office 316.832.0530
Cell 316.253.1275

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY *Coral Production Corporation*
LEASE *#16-3 Griebel*
FIELD
LOCATION *755' FNL, 1960' FWL, NW/4*
SEC *16* TWSP *7s* RGE *19w*
COUNTY *Rooks* STATE *Kansas*
CONTRACTOR *Discovery Drilling Rig #2*
SPUD *1-17-2015* COMP. *1-23-2015*
RTD *3425'* LTD *NA*
MUD UP *2650'* TYPE MUD *Chemical*
SAMPLES SAVED FROM *2800'* TO *RTD*
DRILLING TIME KEPT FROM *2800'* TO *RTD*
SAMPLES EXAMINEDFROM *2800'* TO *RTD*
GEOLOGICAL SUPERVISION FROM *2850' to RTD*
GEOLOGIST ON WELL *Tim J. Lauer*

ELEVATIONS
KB *1933'*
DF
GL *1925'*
Measurements Are All From *Kelly Bushing*

CASING
CONDUCTOR
SURFACE *8-5/8" @ 305'*
PRODUCTION *none*

ELECTRICAL SURVEYS
none

COMPANY & WELL *Coral Prod Corp #16-3 Griebel*
LOCATION *755' FNL 1960' FWL NW/4*
SEC *16* TWSP *7s* RGE *19w*
COUNTY *Rooks* STATE *Kansas*

ELEVATIONS
KB *1933'*
DF
GL *1925'*

FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Anhydrite		*1409 (+524)*
Topeka		2889 (-956)
Heebner		*3089 (-1156)*
Toronto		3114 (-1181)
Lansing		*3300 (-1367)*
Base Kc. City		3351 (-1418)
Arbuckle		*3388 (-1455)*
Total Depth		*3425 (-1492)*

REMARKS

Due to DST results and structural position, operator elected plug and abandon the well without further testing the location.

Respectfully submitted,

Tim J Lauer
1-24-2015

LEGEND

Anhydrite, Sandstone, Limestone, Shale, Carb Sh, Cherty LS, Chert, Dolomite

LITHOLOGY | SLABS/ FEET TESTS | DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Decreases →) 5 10 15 | DEPTH (SECONDS) | SAMPLE DESCRIPTION | REMARKS

2800

Lc; tan-gry-orn, mott; vfn-mdgrtxn, foss, 1/4 mlp-grain tst; scat gr 0f/LN poor, NS; n. flor; n. stn.

SPUD 5:15 PM 1-17-2015
RTD 1:30 PM 1-23-2015

Sh; vcol AA, md-dk-gy, scat blk, carb lft; incr mod-brn and gm, scat tst; 8 mnt gry, vfn-frgnt, mica, most pr vis poor, NS; n. flor; n. stn.

"BIT RECORD:"
1.) HTC GX20C (New)
Set to 3425 RTD

"VERTICAL SURVEYS:"
3/4° @ 306'
3/4° @ 3080'

Lc; bf-gry-orn, mott, micro-indgrtxn, foss, mealy-rgh tst, mod dna, pr vis poor, NS; n. flor; n. stn.

1-17-2015 - MIRT, RURT
Spud 5:15 PM

Shaly Lc; crm-md gry, micro-frsln, foss, dns, pr poc, NS; n. stn. incr Sh; vscl gry-green, occ rd-brn

11-18-2015 - 7:00 AM
PTD @ 306' WOC
set 8-5/8" @ 305'

1-19-2015 - 7:00 AM
DHg @ 1905'

50

Sh; md-dk gry, mod rd-brn, some gm mica, sdy & soft lft

Lc; crm-mdd gry, vfn-indgrtxn, mty-rgh tst, dns, scat pr-fr 0f/LN poor, n. flor; n. stn. n. odor

1-20-2015 - 7:00 AM
DHg @ 2810'

Sh; md-dk gry, incr vscl grn, vfn-frsln, blk, s. mica, scat Lc; AA, pr poc, n. flor; n. stn. n. odor.

1-21-2015 - 7:00 AM
DHg @ 3115'

Sh; md-dk gry, vscl AA, occ sd; 8 mnt gry, gritty lft; sdy, slightly micac, pr poc, NS; n. flor; n. stn.

1-22-2015 - 7:00 AM
DHg @ 3310'

1-23-2015 - 7:00 AM
PTD @ 3456
Running DST (4)

Topeka 2889 (-956)

2900

Lc; mod crm-dkgy, vfn-frgnt, dns, pr poc, NS, some bf Lm; mod pr-fr 0f/LN poor, NS; n. flor; n. stn. n. odor

1-24-2015 - 7:00 AM
PTD @ 3425
Plugged & Abandoned
9:30 PM 1-23-2015

Lc; mod crm-tan-gry, vfn-frgnt, dns, mod pr poc, NS; n. flor; n. stn. n. odor

Lc; crm-tan-dkgy, mod dkgy, scat dkbrn, micro-frgnt-sm, lft; fissl, 1/4 mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Call point reached 7:30 PM 1-19-2015

Heebner 3089 (-1156)

Sh; md-dk gry, vscl gm, nb-brn, occ blk

Lc; crm-tan, some md gry, spkd scat dkbrn, micro-frgnt-sm, lft; fissl, 1/4 mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Geologist on location 2850'

Sh; md-dk gry, vscl gm, nb-brn, occ blk

Lc; crm-tan, some md gry, spkd scat dkbrn, micro-frgnt-sm, lft; fissl, 1/4 mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Sh; md-dk gry, nb-brn, blk

Lc; bf-tan, occ md-gry, mott, micro-frgnstn, 1/3 soft, chalky lft mealy-grain tst; scat pr-fr 0f/LN poor, NS; n. flor; scat gldsn flakes?; n. cut, n. odor.

Mud Check at 2890
vis: 52 wt: 8.8 Chlor: 1,800
LCM: 2# Ph: 9.0 WL: 8.0
(displace native fluid @ 2650')

Toronto 3114 (-1181)

3000

Sh; md-dk gry, vscl rd-brn, blk, crsh, scat Lc; tan/brn-sbg gry, mott, frsln, scat pr poc, NS; n. flor; n. stn.

Sh; md-dk gry, vscl gm, abund gummy clay balls.

Lansing 3300 (-1367)

Sh; md-dk gry, vscl gm, rd-brn, occ blk

Deer Crk 3002 (-1068)

Lc; mostly crm-tan/brn-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn, chalky lft poc.

15 Stand Short Trip at 3300
pulled 20-30# over on stands 1-5

Pipe Strap on DST (1)
Board: 3085 KB
Strap: 3090.11
Diff: 5.89' long

Bkc 3351 (-1418)

3050

Lc; mod crm-dkgy, mod crm-tan, micro-frgnstn, 1/3 soft, chalky lft mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. occ Chl; crm-gry, fresh, pr poc, NS; n. flor; n. stn.

DST (1) 3062'-3080'
15-35-45-30
Blow: weak, built to 3/4" in 5min
weak surface blow on FFP
no bleedback on FSIP
65' MCW
0% gas, 0% oil, 20% mud, 80% wtr
IHP: 1466 FHP: 32-45
IFP: 26-28 FSIP: 895
ISIP: 880 FHP: 1402
Temp: 99°F
Chlorides: MUD: 1,800 PPM
DST: 25,000 PPM
Rw = 0.5 Ohms @ 45°F
Both Shut-in curves broken over

Arb 3388 (-1455)

3100

Sh; md-dk gry, gm, abund blk, carb

Lc; crm-md gry-dk gry, s. mod lft; micro-frsln, s. pyritic, 1/10 mealy tst; mod pr-fr 0f/LN poor, NS; n. flor; n. stn. n. odor

Mud Check at 3183
vis: 48 wt: 9.2 Chlor: 2,000
LCM: 3# Ph: 9.0 WL: 8.8

Sh; md-dk gry, vscl gm, abund blk, carb

Lans 3132 (-1199)

Sh; md-dk gry, abund blk, carb, abund mica, s. pyritic, 1/10 mealy tst; mod pr-fr 0f/LN poor, NS; n. flor; n. stn. n. odor

Tor 3114 (-1181)

3150

Lc; crm-tan, mod tan-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn, chalky lft poc.

(3114-26) Lc, mod lt gry, crm-wht, scat tan (ptn) vfn-frgnstn, s. fissl, mod dns, scat poroc fr 0f/LN poor, scat pr pp poc, NS; n. flor; n. stn. n. odor (90' above 1st 40' of 90')

DST (2) 3120'-3224'
15-30-45-60
Blow: weak, built to 1" in FP
no bleedback on ISIP
weak surface blow on FFP
no bleedback on FSIP
15' Mud, NS
IHP: 1496 FFP: 25-24
IFP: 23-25 FSIP: 657
ISIP: 644# FHP: 1495
Temp: 94°F
Chlorides: MUD: 3,000 PPM
DST: NA
Rw = NA
**Note Both Shut-in curves still building.*

Cgo 3174 (-1241)

Lc; crm-tan, mod tan-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn. n. odor (1/3 soft lft mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor)

(3174-76) Lc, crm-dk gry, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3176-78) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3178-80) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3180-82) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3182-84) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3184-86) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3186-88) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3188-90) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3190-92) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3192-94) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3194-96) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3196-98) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3198-3200) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Mud Check at 3115 during DST
vis: 55 wt: 9.2 Chlor: 2,000
LCM: 3# Ph: 9.0 WL: 8.4

Lans 3200 (-1267)

Lc; mod crm-dkgy, mod tan-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn. n. odor

Sh; dk. gry, abund red-brn, some gm-gry (15° cfs)

Lc; crm-tan-gry, mod tan-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn. n. odor

Sh; md-dk gry, mod rd-brn, some gm, occ blk, carb; incr mod-brn and gm, scat tst; 8 mnt gry, vfn-frgnt, mica, most pr vis poor, NS; n. flor; n. stn.

Shaly Lc; crm-md gry, micro-frsln, foss, dns, pr poc, NS; n. stn. incr Sh; vscl gry-green, occ rd-brn

Sh; md-dk gry, mod rd-brn, some gm mica, sdy & soft lft

Lc; crm-mdd gry, vfn-indgrtxn, mty-rgh tst, dns, scat pr-fr 0f/LN poor, n. flor; n. stn. n. odor

Sh; md-dk gry, incr vscl grn, vfn-frsln, blk, s. mica, scat Lc; AA, pr poc, n. flor; n. stn. n. odor.

Sh; md-dk gry, vscl AA, occ sd; 8 mnt gry, gritty lft; sdy, slightly micac, pr poc, NS; n. flor; n. stn.

Lc; mod crm-dkgy, vfn-frgnstn, dns, pr poc, NS; n. flor; n. stn. n. odor

Lc; mod crm-tan-gry, mott, micro-frgnstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; crm-tan-tan, some md gry, spkd scat dkbrn, micro-frgnstn, lft; fissl, 1/4 mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Sh; md-dk gry, vscl gm, nb-brn, occ blk

Lc; crm-tan, some md gry, spkd scat dkbrn, micro-frgnstn, lft; fissl, 1/4 mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Sh; md-dk gry, nb-brn, blk

Lc; bf-tan, occ md-gry, mott, micro-frgnstn, 1/3 soft, chalky lft mealy-grain tst; scat pr 0f/LN poor, NS; n. flor; scat gldsn flakes?; n. cut, n. odor.

Sh; md-dk gry, vscl rd-brn, blk, crsh, scat Lc; tan/brn-sbg gry, mott, frsln, scat pr poc, NS; n. flor; n. stn.

Sh; md-dk gry, vscl gm, abund gummy clay balls.

Sh; md-dk gry, vscl gm, rd-brn, occ blk

Lc; mostly crm-tan/brn-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn, chalky lft poc.

Lc; mod crm-dkgy, mod crm-tan, micro-frgnstn, 1/3 soft, chalky lft mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; bf-gry, crm, mod gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; lt-gry, crm, mod gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3224-26) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor (1/3 soft lft mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor)

(3226-28) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3228-30) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3230-32) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3232-34) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3234-36) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3236-38) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3238-40) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3240-42) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3242-44) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3244-46) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3246-48) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3248-50) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3250-52) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3252-54) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3254-56) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3256-58) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3258-60) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3260-62) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3262-64) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3264-66) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3266-68) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3268-70) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3270-72) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3272-74) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3274-76) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3276-78) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3278-80) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3280-82) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3282-84) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3284-86) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3286-88) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3288-90) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3290-92) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3292-94) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3294-96) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3296-98) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3298-3300) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Mud Check at 3400 after DST (3)
vis: 52 wt: 9.2 Chlor: 2,000
LCM: 2# Ph: 9.5 WL: 8.8

Cgo 3174 (-1241)

Sh; md-dk gry, abund red-brn, some gm-gry (15° cfs)

Lc; crm-tan, mod tan-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn. n. odor

Sh; md-dk gry, mod rd-brn, some gm, occ blk, carb; incr mod-brn and gm, scat tst; 8 mnt gry, vfn-frgnt, mica, most pr vis poor, NS; n. flor; n. stn.

Shaly Lc; crm-md gry, micro-frsln, foss, dns, pr poc, NS; n. stn. incr Sh; vscl gry-green, occ rd-brn

Sh; md-dk gry, mod rd-brn, some gm mica, sdy & soft lft

Lc; crm-mdd gry, vfn-indgrtxn, mty-rgh tst, dns, scat pr-fr 0f/LN poor, n. flor; n. stn. n. odor

Sh; md-dk gry, incr vscl grn, vfn-frsln, blk, s. mica, scat Lc; AA, pr poc, n. flor; n. stn. n. odor.

Sh; md-dk gry, vscl AA, occ sd; 8 mnt gry, gritty lft; sdy, slightly micac, pr poc, NS; n. flor; n. stn.

Lc; mod crm-dkgy, vfn-frgnstn, dns, pr poc, NS; n. flor; n. stn. n. odor

Lc; mod crm-tan-gry, mott, micro-frgnstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; crm-tan-tan, some md gry, spkd scat dkbrn, micro-frgnstn, lft; fissl, 1/4 mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Sh; md-dk gry, vscl gm, nb-brn, occ blk

Lc; crm-tan, some md gry, spkd scat dkbrn, micro-frgnstn, lft; fissl, 1/4 mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Sh; md-dk gry, nb-brn, blk

Lc; bf-tan, occ md-gry, mott, micro-frgnstn, 1/3 soft, chalky lft mealy-grain tst; scat pr 0f/LN poor, NS; n. flor; scat gldsn flakes?; n. cut, n. odor.

Sh; md-dk gry, vscl rd-brn, blk, crsh, scat Lc; tan/brn-sbg gry, mott, frsln, scat pr poc, NS; n. flor; n. stn.

Sh; md-dk gry, vscl gm, abund gummy clay balls.

Sh; md-dk gry, vscl gm, rd-brn, occ blk

Lc; mostly crm-tan/brn-gry, mott, fn-mdstn, dns, scat f-gd 0f/LN poor, NS; n. flor; n. stn, chalky lft poc.

Lc; mod crm-dkgy, mod crm-tan, micro-frgnstn, 1/3 soft, chalky lft mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor.

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; bf-gry, crm, mod gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; lt-gry, crm, mod gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

Lc; mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3224-26) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor (1/3 soft lft mealy-grain tst; scat pr 0f/LN poor, chalky, wtsc soft, NS; n. flor; n. stn. n. odor)

(3226-28) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3228-30) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3230-32) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3232-34) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3234-36) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

(3236-38) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc, NS; n. flor; n. stn. n. odor, sdy; 1/3 soft, chalky lft; scat pr 0f/LN poor, NS; n. flor; n. stn. n. odor

*(3238-40) Lc, mod crm-dkgy, mod tan-gry, micro-frgnstn, s. fissl, mod dns, pr poc,