# MUD LOG
## WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: MARCOTTE #3
Location: 660'FNL & 400' FEL: Sec. 20 ;Twnsp. 9s.; Rge. 18w.
License Number: 34795 Region: Rooks County, KS
Spud Date: 9-21-2013 Drilling Completed: 9-27-13
Surface Coordinates: W/2 E/2 NE NE
700' FNL & 400' FEL
Bottom Hole Coordinates:
Ground Elevation (ft): 2167 K.B. Elevation (ft): 2173
Logged Interval (ft): 2800 To: 3654 Total Depth (ft): RTD 3657
Formation: Arbuckle
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: ABUNDANT OIL PARTNERSHIP
Address: P.O. Box 2216
Grand Island, NE 68802

## GEOLOGIST

Name: Mike Bair
Company: Abundant Oil Partnership
Address: Longmont, CO.

## FORMATION TOPS

| FORMATION | LOG TOP | SAMPLE TOP |
|---|---|---|
| Anhydrite | 1506 (+667) | |
| Topeka | 3085 (-912) | 3088 (-915) |
| Heebner | 3295 (-1122) | 3300 (-1127) |
| Toronto | 3315 (-1120) | 3318 (-1123) |
| Lansing | 3336 (-1163) | 3338 (-1165) |
| BKC | 3553 (-1380) | 3556 (-1383) |
| Arbuckle | 3577 (-1404) | 3579 (-1406) |
| TD | 3654 (-1481) | 3657 (-1484) |

## DSTs

NONE

## Comments

Production casing was ran to further test the economic potential of the Arbuckle formation.

## ROCK TYPES

Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till

## ACCESSORIES

### MINERAL

Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff

### FOSSIL

Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

### STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

### TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

## OTHER SYMBOLS

### POROSITY

Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

### SORTING

Well
Moderate
Poor

### ROUNDING

Rounded
Subrnd
Subang
Angular

### OIL SHOW

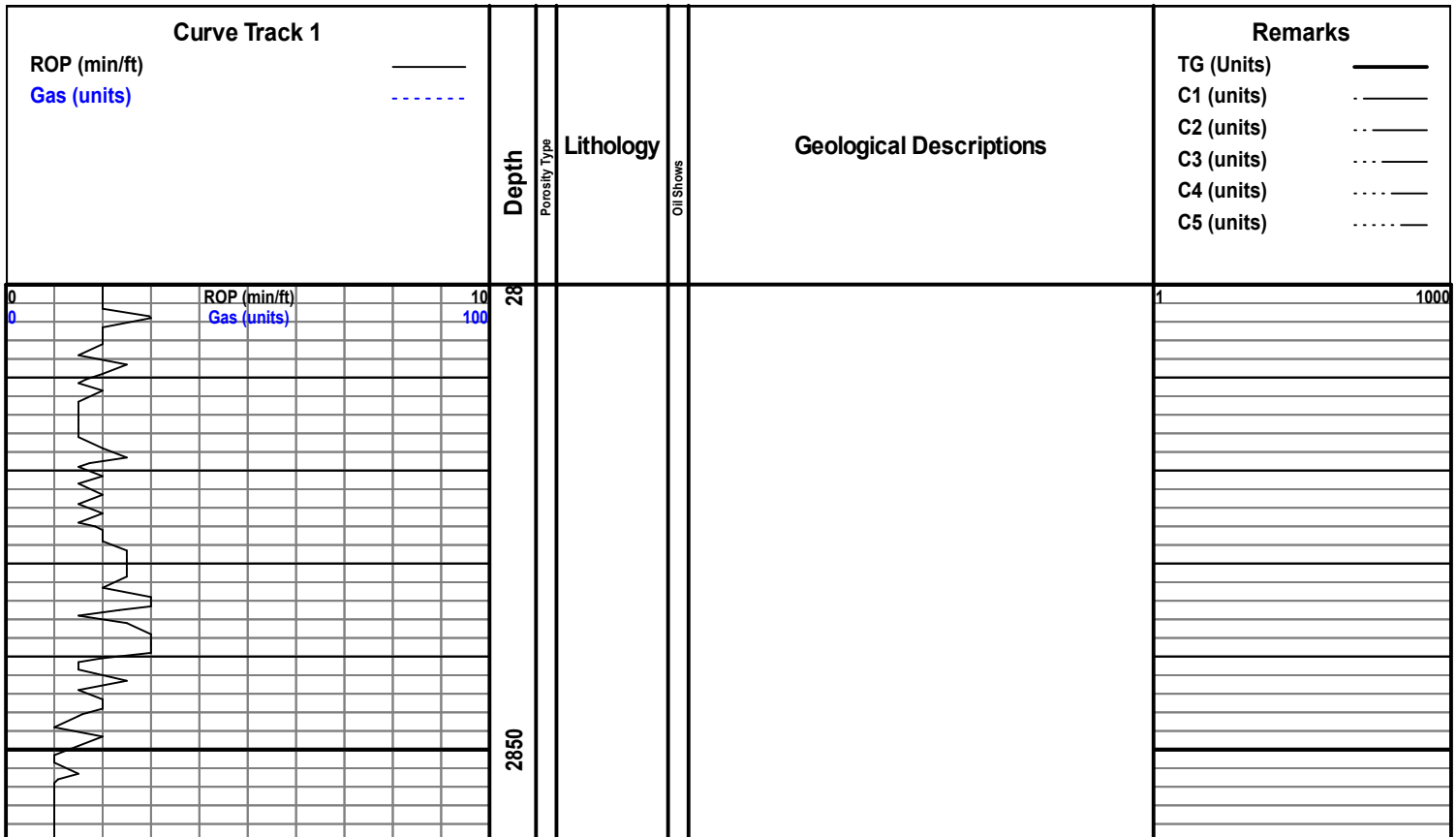
Even
Spotted
Ques
Dead

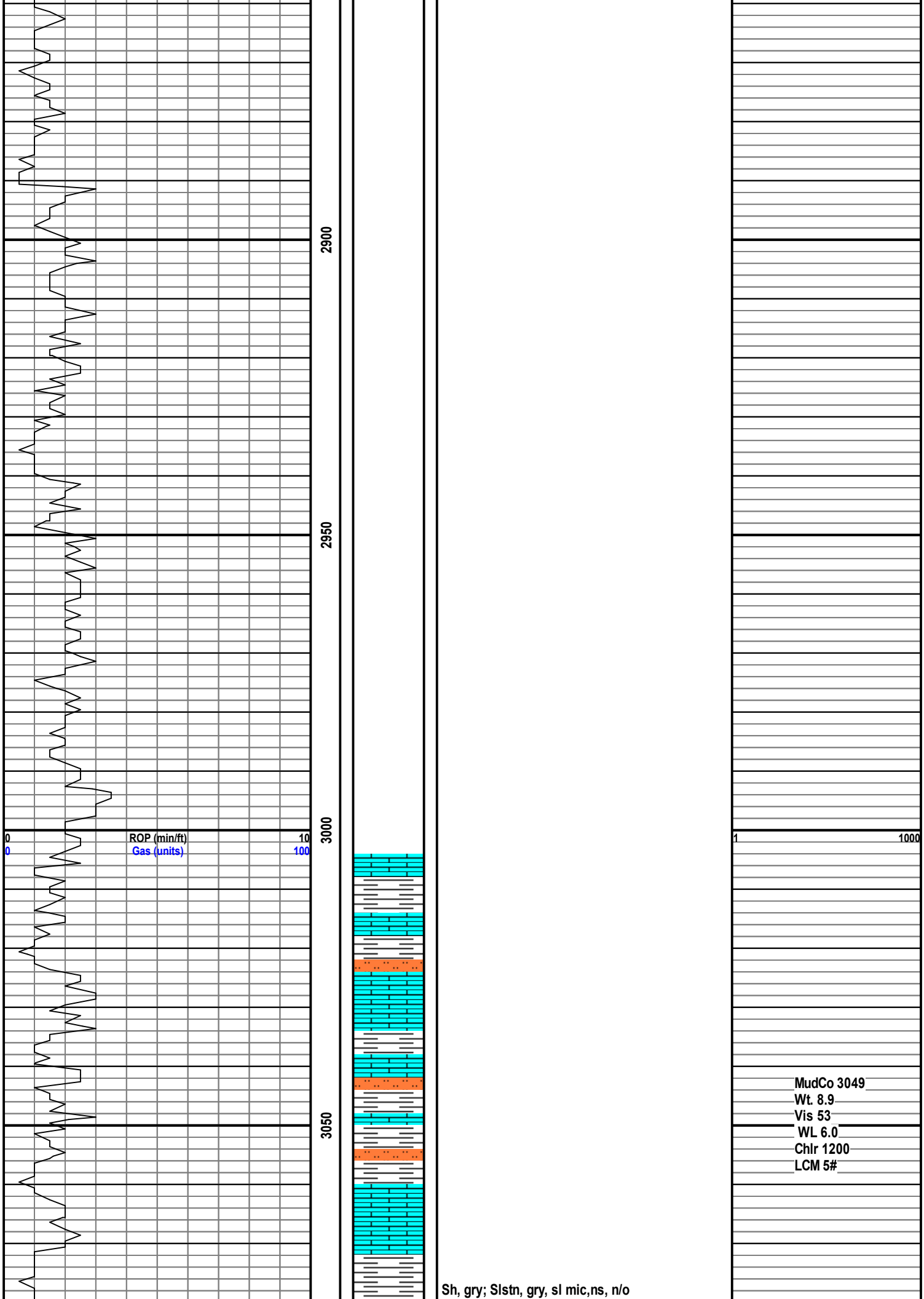
### INTERVAL

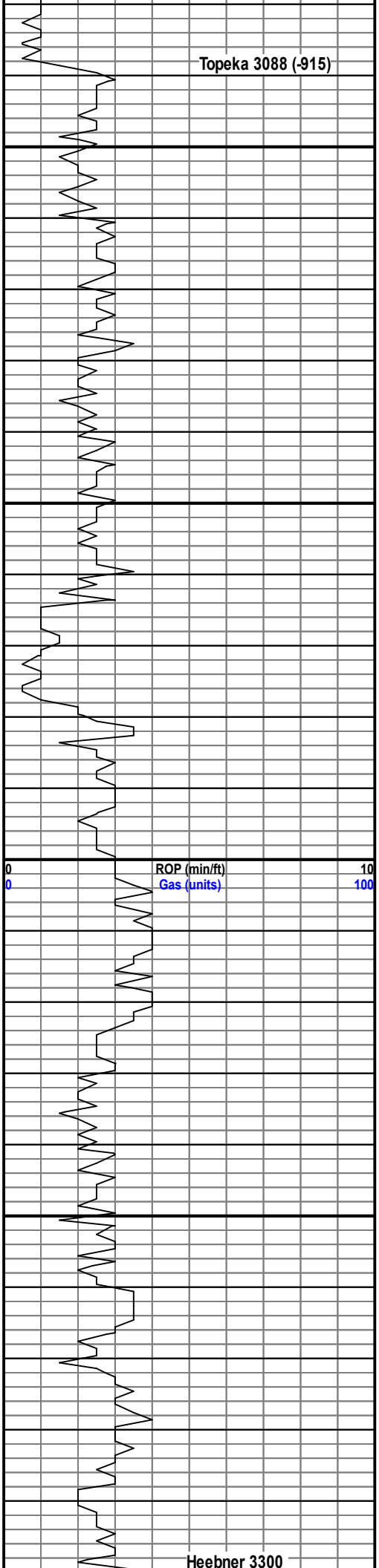
Core
Dst

### EVENT

Rft
Sidewall




2900
2950
3000
3050
0
ROP (min/ft)
10
0
Gas (units)
100
1
1000
MudCo 3049
Wt. 8.9
Vis 53
WL 6.0
Chlr 1200
LCM 5#
Sh, gry; Slstn, gry, sl mic,ns, n/o



Ls, crm-brn, wkstn-pkstn, pr vis por, foss frags; Sh, a/a; ns, n/o

Ls, crm-tan, foss frags, pr vis por, ns, n/o

Ls, crm-tan, mst fxl, nvp, few gran w poss ixgran por, ns, n/o

Ls, tan-gry-brn, fxl, ns, n/o

a/a some motl'd, ns, n/o

Sh, blk; Ls, tan, crm mst fxl, ns,n/o

Ls, crm, fxl, few ool, pr vis por, ns. n/o

Ls, crm-gry, cky in pt, some foss, ns, n/o

a/a; Chert, blk

Dolo, tan, suc, fr - gd suc por, ns, n/o 3190

Dolo, a/a to dolo, crm-brn, suc, fr-gd suc por, ns,n/o 3200

Ls, tan-gry, fxl to gran, some foss, ns, n/o

Ls, crm, mdstn, few pc Chert, wh, ns. n/o

Ls, tan, fxl, shly, ns, n/o

Chert, op to brn, fresh, dse; Ls, crm, foss frags, few pkstn-grnstn, ns, n/o

Ls, tan to wh, some sl cky, few pc spt'd surf stn, sl sfo wh bxn, 1 pc spt'd sat'd stn, pr-sl por, fr-gd odor, low rep. 3260

Chert, black; Ls, wh, pr vis por, sl cky, sl sfo wh bxn, low rep, wk odor

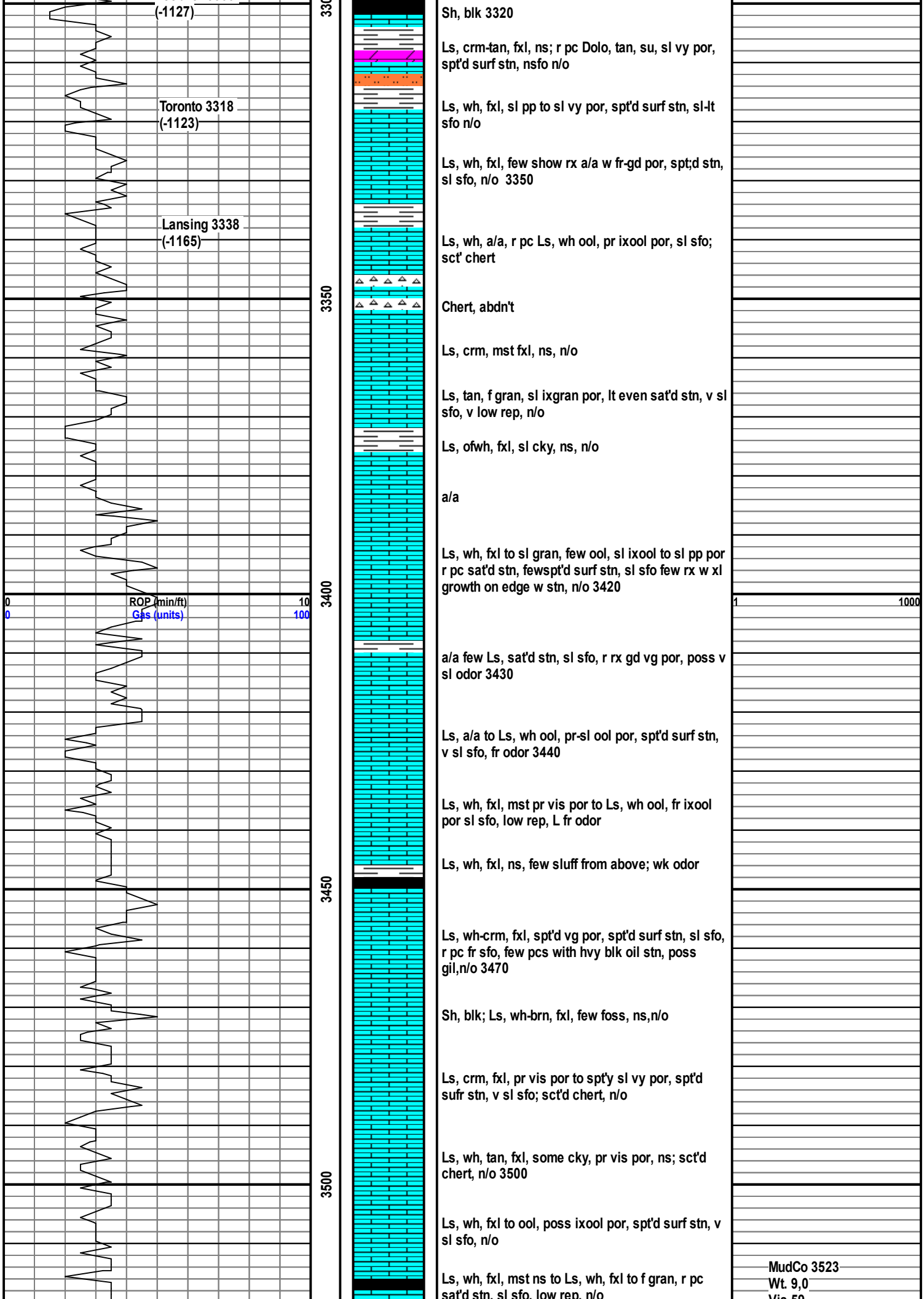
Ls, tan, fxl, motl'd, ns; Chert, blk, n/o

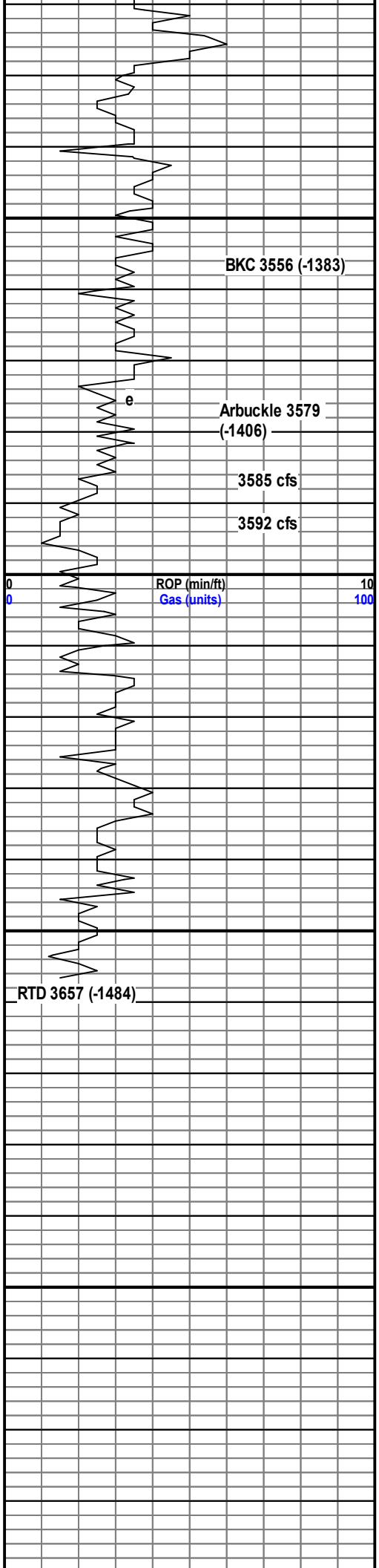
Ls, crm, fxl, sl cky, foss, nvp, ns;Chert, wh, n/o

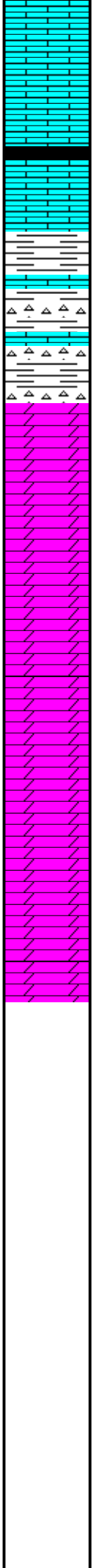
Ls, gry-tan, wkstn, argil, ns, n/o 3300

Ls, wh-crm, fxl to pkstn, sl pp por to sl vg por, sl sfo wh bxn, low rep, n/o

1
1000


(-1127)
Toronto 3318
(-1123)
Lansing 3338
(-1165)
3300
3350
3400
3450
3500
0
ROP (min/ft)
10
0
Gas (units)
100
1
1000
Sh, blk 3320
Ls, crm-tan, fxl, ns; r pc Dolo, tan, su, sl vy por, spt'd surf stn, nsfo n/o
Ls, wh, fxl, sl pp to sl vy por, spt'd surf stn, sl-lt sfo n/o
Ls, wh, fxl, few show rx a/a w fr-gd por, spt;d stn, sl sfo, n/o 3350
Ls, wh, a/a, r pc Ls, wh ool, pr ixool por, sl sfo; sct' chert
Chert, abdn't
Ls, crm, mst fxl, ns, n/o
Ls, tan, f gran, sl ixgran por, lt even sat'd stn, v sl sfo, v low rep, n/o
Ls, ofwh, fxl, sl cky, ns, n/o
a/a
Ls, wh, fxl to sl gran, few ool, sl ixool to sl pp por r pc sat'd stn, fewspt'd surf stn, sl sfo few rx w xl growth on edge w stn, n/o 3420
a/a few Ls, sat'd stn, sl sfo, r rx gd vg por, poss v sl odor 3430
Ls, a/a to Ls, wh ool, pr-sl ool por, spt'd surf stn, v sl sfo, fr odor 3440
Ls, wh, fxl, mst pr vis por to Ls, wh ool, fr ixool por sl sfo, low rep, L fr odor
Ls, wh, fxl, ns, few sluff from above; wk odor
Ls, wh-crm, fxl, spt'd vg por, spt'd surf stn, sl sfo, r pc fr sfo, few pcs with hvy blk oil stn, poss gil,n/o 3470
Sh, blk; Ls, wh-brn, fxl, few foss, ns,n/o
Ls, crm, fxl, pr vis por to spt'y sl vy por, spt'd sufr stn, v sl sfo; sct'd chert, n/o
Ls, wh, tan, fxl, some cky, pr vis por, ns; sct'd chert, n/o 3500
Ls, wh, fxl to ool, poss ixool por, spt'd surf stn, v sl sfo, n/o
Ls, wh, fxl, mst ns to Ls, wh, fxl to f gran, r pc sat'd stn, sl sfo, low rep, n/o
MudCo 3523
Wt. 9,0



a/a to Ls, wh w lt oil stn on end

Sh, blk; Ls, crm-brn, fxl, ns, n/o

Ls, crm, mst fxl, ns; r pc w sl spt'd surf stn, v sl sfo, tite, n/o 3550

Ls, crm, fxl, some cherty, spt'd sl vg por, lt surf stn, n/o to Ls, wh ool, sl-fr ool por, sl-low fr sfo, l-med rep 3560 60 min

Sh, v.c., abdn't; Chert, gry to crm; sct'd Ls, fxl, few pc w spt'd surf stn, v sl sfo

Dolo, wh, suc-fmxl, sl-some fr ixl por, few fr vy por, sl- L fr sfo in few rx, few spt'd sat'd stn, wk odor 3585 60 min

Dolo, tan, f grn, sat'd stn, fr ixl por, fr to few gd sfo, fr odor 3592 40 min

Dolo, a/a, L-gd odor, sat'd stn, fr sfo 3600

Dolo, crm, f-mxl, fr ixl por, few gd vg por, sat'd stn, fr to few good sfo, fr rep, gd odor 3610

Dolo, wh-crm, f-mxl, L fr ixl por, few gd vg por, sat'd stn, fr to few gd sfo, good odor; Chert, white;

Dolo, a/a to Dolo crm, oom, sat'd stn, sl- L fr sfo, fr oom por, Chert, op, ool, L gd odor 3630

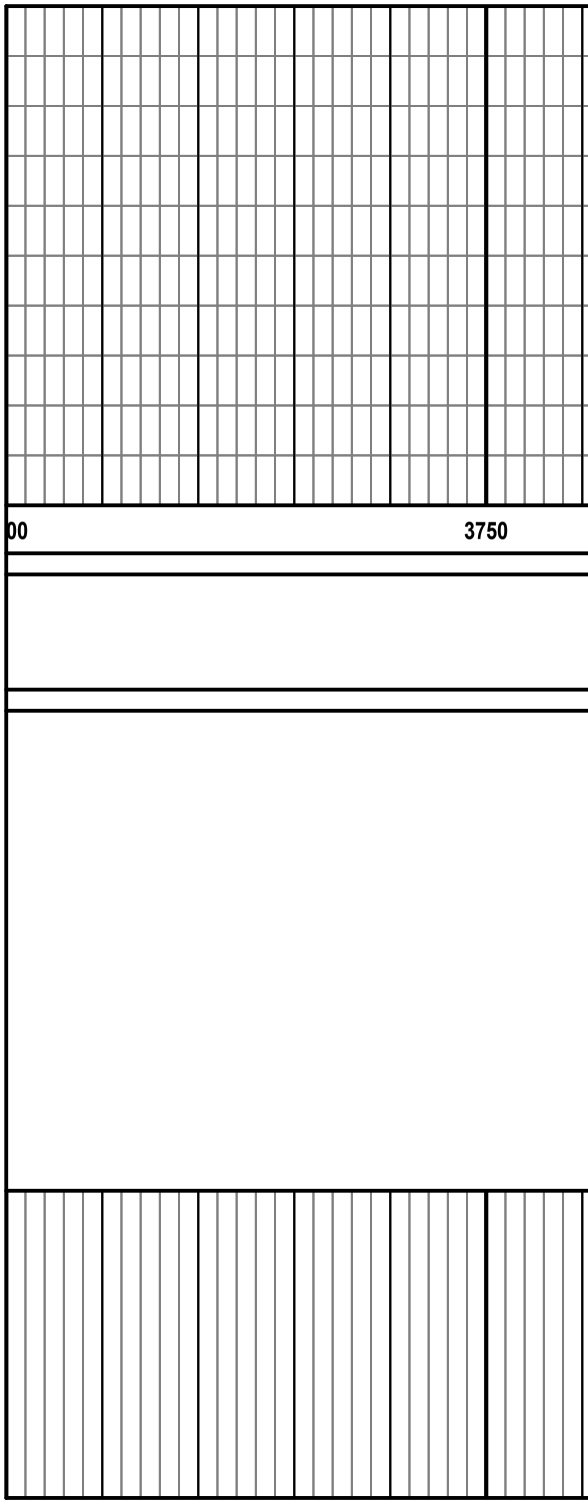
Dolo, crm, f-mxl, mst pr-sl por, few fr vg por, surf stn to few sat'd stn, decr sfo, fr odor 3640

Dolo, wh-tan, mst barren, tite; Chert, wh, ool v lt odor 3650

a/a to Dolo, salmon, mxl, few w hvy black tarry stn,n/o 3657

Vis 59
WL 7.2
Chlr 1200
LCM 10#

1
1000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3750