

GEOLOGICAL REPORT

WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: ANDES 2-36
Well Id: 15-035-24707
Location: SECTION 36-T32S-5E
License Number: _____
Spud Date: 6/27/2019
Surface Coordinates: 1650' FSL 1980'FEL
Bottom Hole Coordinates: _____
Ground Elevation (ft): 1214 K.B. Elevation (ft): 1223
Logged Interval (ft): 1700 To: RTD Total Depth (ft): 3439
Formation: KINDERHOOK
Type of Drilling Fluid: MUD/CHEM DISPLACED @ 1600'

Region: COWLEY CO, KS
Drilling Completed: 7/1/2019

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

OPERATOR

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GEOLOGIST

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E-Log Tops

IATAN	1770(-547)
STALNAKER	1793(-570)
LAYTON SD	2232(-1009)
KANSAS CITY LIME	2357(-1134)
MARMATON /ALTAMONT	2620(-1397)
PAWNEE	2678(-1455)
CHEROKEE SH	2741(-1518)
MISS CHERT	3003(-1780)
MISS LIME	3012(-1789)
KINDERHOOK	3402(-2179)
ARBUCKLE	Not Drilled
RTD	3439(-2216)
LTD	3439(-2216)

Comments

The entire well was drilled with PDC bit~ 40 hours drilling Pipe was set in the Kinderhook to futher test and complete the Miss Lime and Miss Chert .

New Track	Lithology	MD	<p style="text-align: center;">Curve Track 1</p> <p>ROP (min/ft) —</p>	Geological Descriptions	Oil Shows	MISC
		1750	<p>ROP (min/ft) 0 15</p>	<p>DRILLING WITH PDC BIT CATCHING 20' WET AND DRY SAMPLES</p>		
		1750		<p>E-LOG TOPS</p>		
				<p>IATAN 1770(-547)</p>	<p>LS TAN BRN DNS SL FOSSIL</p>	
				<p>STALNAKER 1793(-570)</p>		
		1800	<p>ROP (min/ft) 0 15</p>			
				<p>Sst wh fngrn well srtd mic por ns</p>		
				<p>SST AA WH FR SRTD MED GRN FRIA GD POR NS</p>		
		1850		<p>SST WH MED-CRS GRN GD POR NO SHOWS</p>		
					<p>NO SHOWS</p>	

1900

1950

2000

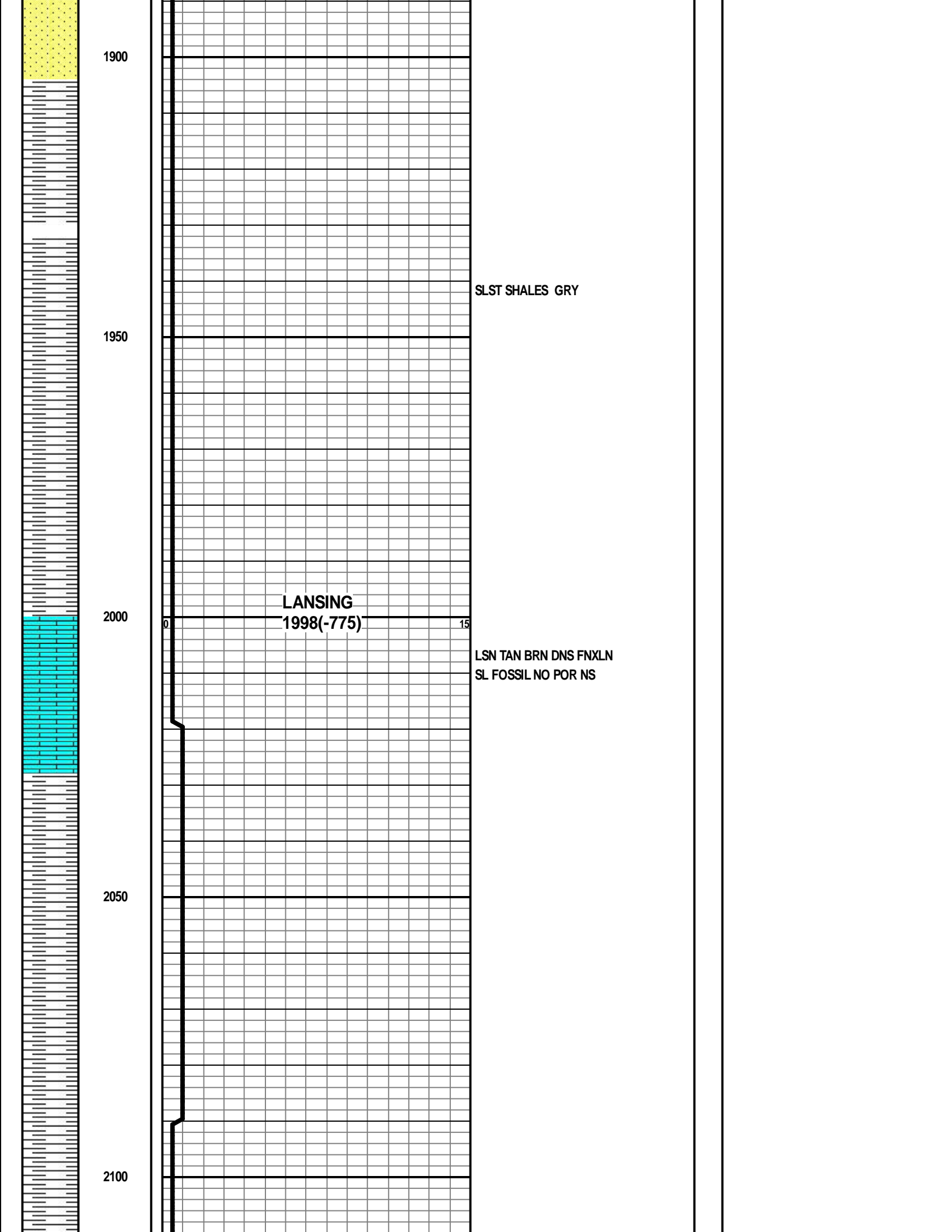
2050

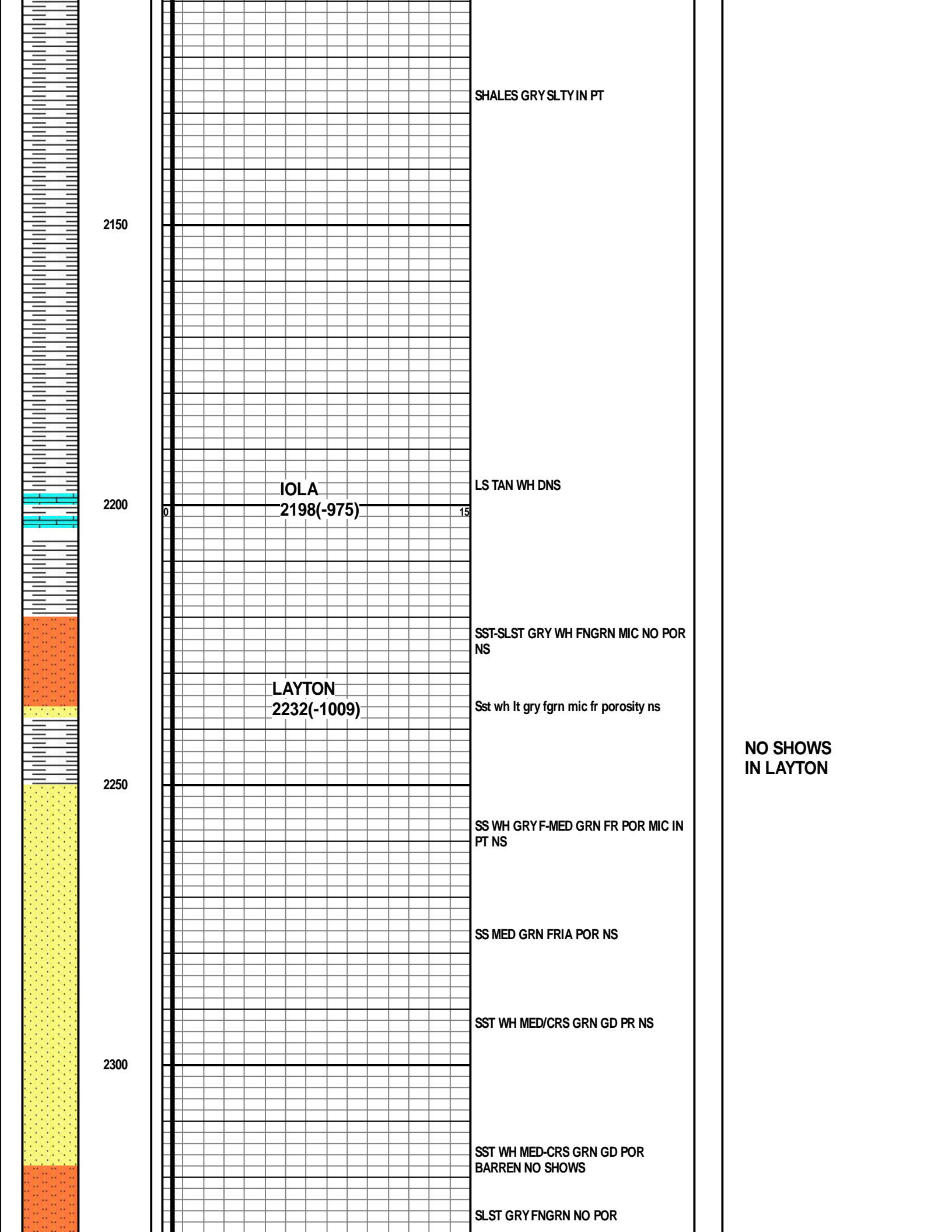
2100

SLST SHALES GRY

LANSING
1998(-775)

LSN TAN BRN DNS FNXLN
SL FOSSIL NO POR NS





2350

KANSAS CITY
2357(-1134)

SHALES SLST GRY GRN

LS DK BRN/GRY MOTT DNS FNXL NS

LS AA DK BRN/GRY FNXLN DNS NO
POR NS

DODDS CREEK SD
2376(-1153)

2400

0

ROP (min/ft)

15

NO SHOWS

SST F-MED GRN ANG /SUBANG MIC
DIRTY FR NO SHOWS

2450

LS TAN FNXLN DNS NO POR NS

LS CRM /TAN MOTT DNS SL FOSSIL NO
POR NS

SHAKE BLK CARB

HUSHPUCKNEY SH

2500

LS BRM/CRM MOTT FNXLN SL FOSSIL
NS

SHAKE BLK CARB

2550

2350

CLEVELAND ZONE

SST-SLST GRY GRN VFNGRN
GLAUCONITIC

"WASH WHITE" VERY CHALKY

NO SHOWS

2600

ROP (min/ft) 0 15

LS DK BRN FNXLN DNS NS

**ALTAMONT
2620(-1397)**

SHALE BK

LS WH /CRM FNXLN DNS TRC SCAT
FOSSIL CST/PNPT POR NS

NO SHOWS

LS CRM/TAN MOTT FNXLN NS

2650

SHALE SL SLTY VFNGRN NO POR NO
SHOWS

**PAWNEE
2678(-1455)**

LSTAN /CRM FNXLN /FEW VUGS W
FLUOR TRACE ODOR? SSO

**SLIGHT
SHOW**

2700

SHALE BLK CARB

FT SCOTT

LS TAN /CRM SCAT DULL FLUOR ~ 10%
FT ODOR SOME PNPT /VUGGY POR IN
FEW PCS

**VERY SLIGHT
SHOW**

2750

**CHEROKEE
2741(-1518)**

SHALE BLK

SHALE BLK

2800

0

ROP (min/ft)

15

SHALES BLK

SHALE BLK

SLST GRY FNGRN MIS NO POR NS

LS TAN DK BRN DNS FNXL

**ARDMORE
SH**

SHALE/SLST GRY

**CATTLEMAN
SD**

SST F-MED GRN ,ANG ,POORLY
SRTD,SSFO DULL FLUOR NO ODOR

**SLIGHT
SHOW**

2850

2840(-1617)

2900

**START 10' WET & DRY
SAMPLES**

SHALES SLT GRY NS

SHALE SLST VFGRN NO POR NS

2950

SST GRY FNGRN PR SRTD NO SHOW

SHALE SLSTS GRY

3000

MISS CHT
3003(-1780)

ROP (min/ft)

CHT WH/TAN W/STN, BRT FLUOR,FR-GD
ODOR,SFO,GAS BUBBS

SFO,GAS
BUBBS,ODOR FLUOR

MISS LIME
3012(-1789)

LS TAN/BRN FNXLN SCAT PNPT FOSSIL
POR,SFO ,LT ODOR,DULL FLUOR ~ 10%
IN FEW PCS

SSFO,LT
ODOR,DULL
FLUOR

LS TAN FNXLN SL FOSSIL ,SSO FT
ODOR SCAT DULL FLUOR

SSFO, LT
ODOR
DULL FLUOR

3050

LS TAN BRN FNXLN SL DOLO DNS TRC
FLUOR GAS BUBBS NO ODOR NSO

LS AA TAN/BRN FNXLN DNS MICRI IN PT

LS TAN/BRN DNS MICRINLN SL DOLO
BRITTLE

LS AA DK BRN DNS MICRO/BRITTLE NO
VIS SHOWS

3100

CFS 20/40

LS DK BRN MEDXLN SL DOLO NS

LS TAN /CRM FNXLN CHERTY FOSSIL SL
POR IN CHT NO VIS SHOWS

3150

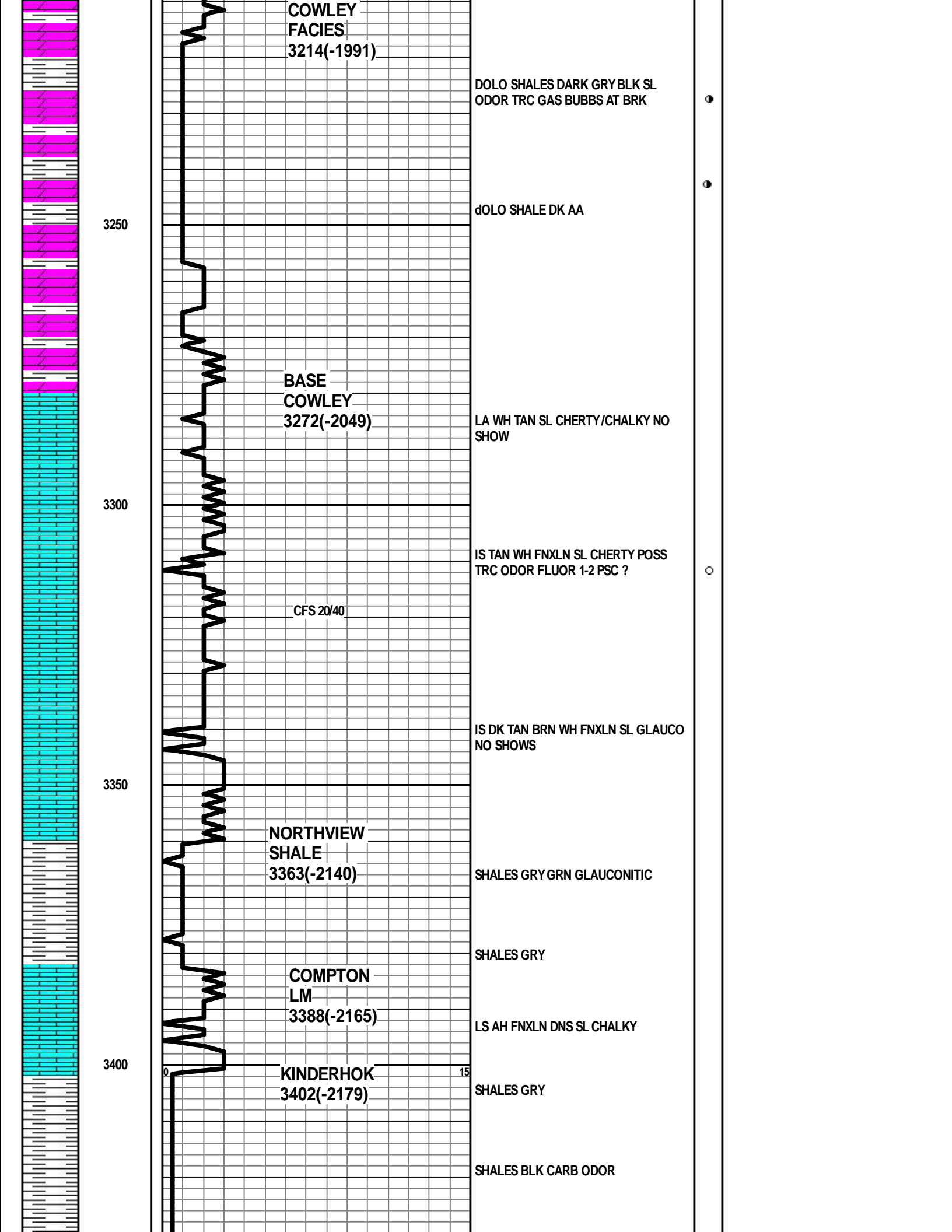
LS DK BRN F-MEDXLN DNS SL DOLO
NO POR NS

LS DK BRN DNS AA MICRO BRITTLE

3200

ROP (min/ft)

15



3450

RTD 3439(-2216)

LTD 3439(-2216)