

BLANCO

Geological Services LLC

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

Well Name: Summers 21-19
Location: NE/NW Sec 19 T32S R65W
Licence Number: 05-071-08315-00
Spud Date: 10/13/05
Surface Coordinates: 900' FNL 1950' FWL

Las Animas County
Region: Purgatoire River
Drilling Completed: 10/14/05

Bottom Hole Coordinates:

Ground Elevation (ft): 7252' K.B. Elevation (ft): 7256'
Logged Interval (ft): 837' To: 1920' Total Depth (ft): 1920'
Formation: Raton / Vermejo / Trinidad
Type of Drilling Fluid: Air / Mist

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

OPERATOR

Company: Pioneer Natural Resources USA, Inc.
Address: 1401 17th Street Suite 1200
Denver CO 80202

GEOLOGIST

Name: Robert Wick / Julian Atencio
Company: BLANCO Geological Services LLC
Address: 806 Robinson
Trinidad CO 81082
(719) 846-3364

Rig

Pense Rig #22

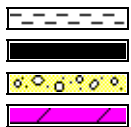
Comments

8 5/8" #24 Surface Casing set to 563.35'

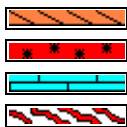
ROCK TYPES



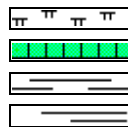
Anhy
Bent
Brec
Cht



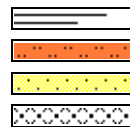
Clyst
Coal
Congl
Dol



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

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

Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER

Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls
 Mrst

Siltstrg
 Ssstrg

TEXTURE

Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

POROSITY TYPE

Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint

Vuggy

SORTING

Well
 Moderate
 Poor

ROUNDING

Rounded
 Subrnd
 Subang
 Angular

Spotted
 Ques
 Dead

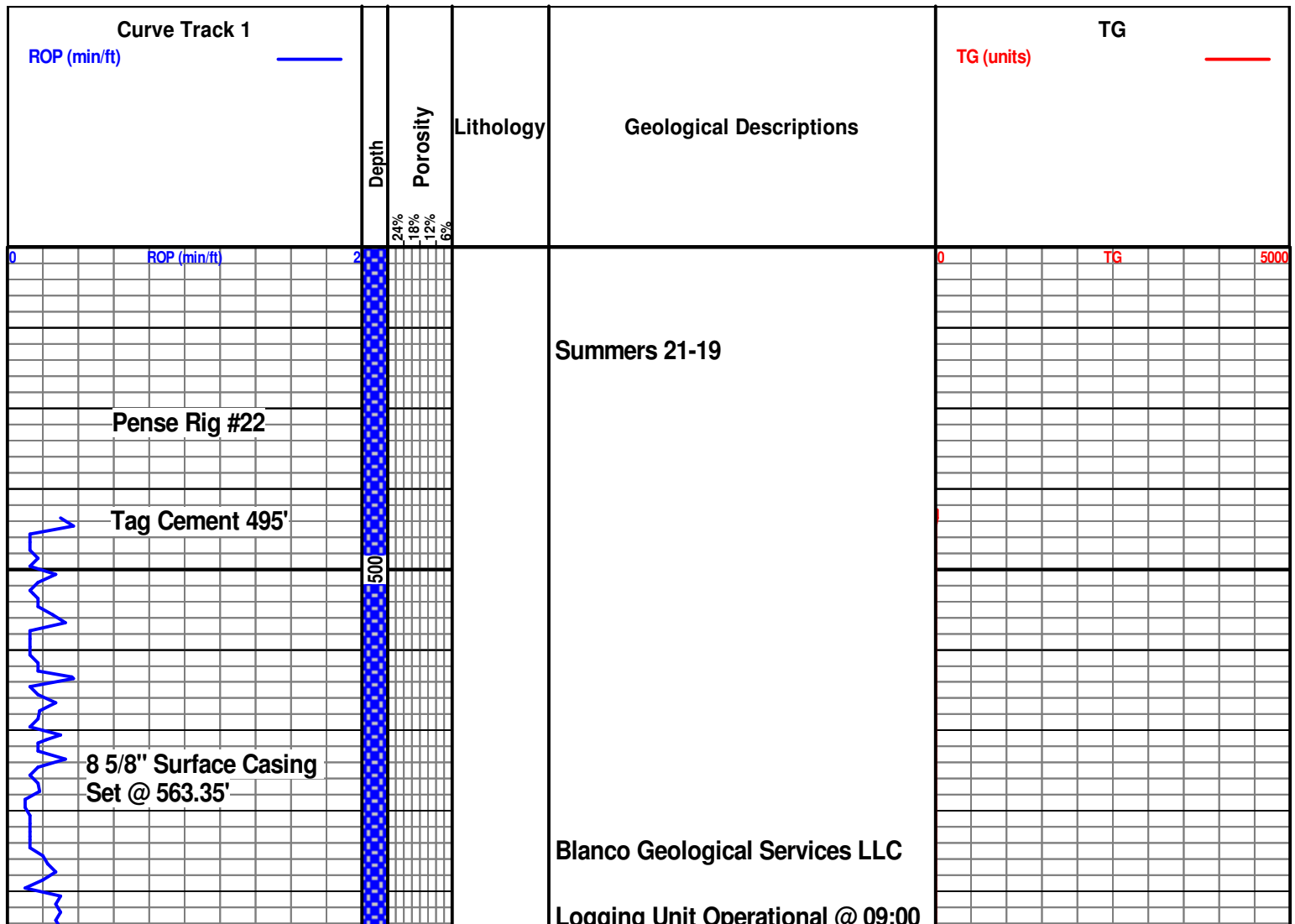
INTERVALS

Core
 Dst
 Srscsg

Cv-v
 Cv-c

EVENTS

Rft
 Sidewall
 Srscsg



9:30 10/14/2005

Drilling New Formation
from 573' w/ Air Hammer

10/14/2005

Began Sampling @ 585'

Raton Formation

SANDSTONE, gray, vfg, sub angular - sub rounded, well
sorted, well consolidated

SHALE, gray, firm, sub blocky - sub platy, gritty sandy, dull

SHALE, lt-gray, firm, sub blocky - sub platy, gritty - sandy,
dull, SANDSTONE stringers

COAL, black, firm brittle, irregular, blocky, smooth, waxy

COAL, black, firm brittle, irregular, blocky, smooth, waxy

SHALE, gray, firm, sub blocky - sub platy, gritty, dull

SHALE, brown, firm, platy - blocky, earthy - velvety, dull

TG Scale 0 - 5,000 Units

MSI Model TG Total
Hydrocarbon CCD/TCD

CG

TG

CG

CG

CG

CG

CG

10:00 @ 675'

ROP (min/ft)

