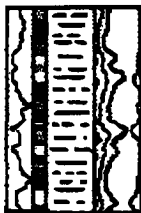
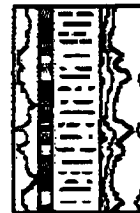


Field
Print**SOFTROCK GEOLOGICAL SERVICES, INC.****591 County Rd. 233 Durango, CO 81301****(970) 247-8868 fax 247-5108****Scale 1:240 (5"=100') Imperial****Well Name:****Cat Draw Com 101S****30-039-27303****Location:****Sec. 4 T30N R5W****Licence Number:****Spud Date:****April 24, 2003*****Region:****Rio Arriba Co., NM****Surface Coordinates:****1160' FSL****Drilling Completed:****May 17, 2003****690' FEL****Bottom Hole****Coordinates:****Ground Elevation (ft): 6452'****K.B. Elevation (ft): 6464'****Logged Interval (ft): 3066' To: 3377'****Total Depth (ft): 3377'****Formation:****Fruitland Formation****Type of Drilling Fluid: Air / Mist****Printed by MUD.LOG from WellSight Systems Inc. 1-800-447-1534 www.wellsight.com****OPERATOR****Company:****Burlington Resources Inc.****Address:****P. O. Box 4289****Farmington, NM 87499-4289****GEOLOGIST****Name:****Peter D. Falk & Bobby Bradley****Company:****Softrock Geological Services, Inc.****Address:****591 CR 233****Durango, CO 81301****(970) 247-8868 247-5108 fax****Contractor****Drilling Rig: Bearcat Rig #4****Drilling Supervisor: Phil Fyke**ATTN: Chip
Hearadan

State NOT

OK

- Approved

e NMO

e 0630

CET

Hole Info

Hole Size and Depth:

8-3/4" to 3066'

6-1/4" from 3066' to 3377' (TD)

(underreamed to 12")

Casing Size and Depth:

Surface casing unknown

7" set at 3058'

Comments

* Note: well previously topset (surface casing) by unknown rig.

ROCK TYPES



Anhy
Bent
Brec
Cht
Cyst
Coal
Congl



Dol
Gyp
Igne
Lmst
Meta
Mrst
Salt



Shale
Shcol
Shgy
Siltst
Ss
Till
Blank



Cyst
Fracture
Shale
Siltst
Carb sh
cement

ACCESSORIES

MINERAL



Anhy
Arggm
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
Fracfill
Smkyqtz
Algae
Amph
Belm
Biocist
Brach
Bryozoa
Cephal

FOSSIL



Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

STRINGER



Anhy
Arg
Bent
Coal
Dol



Gyp
Ls
Mrst
Siltstrg
Ssstrg
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

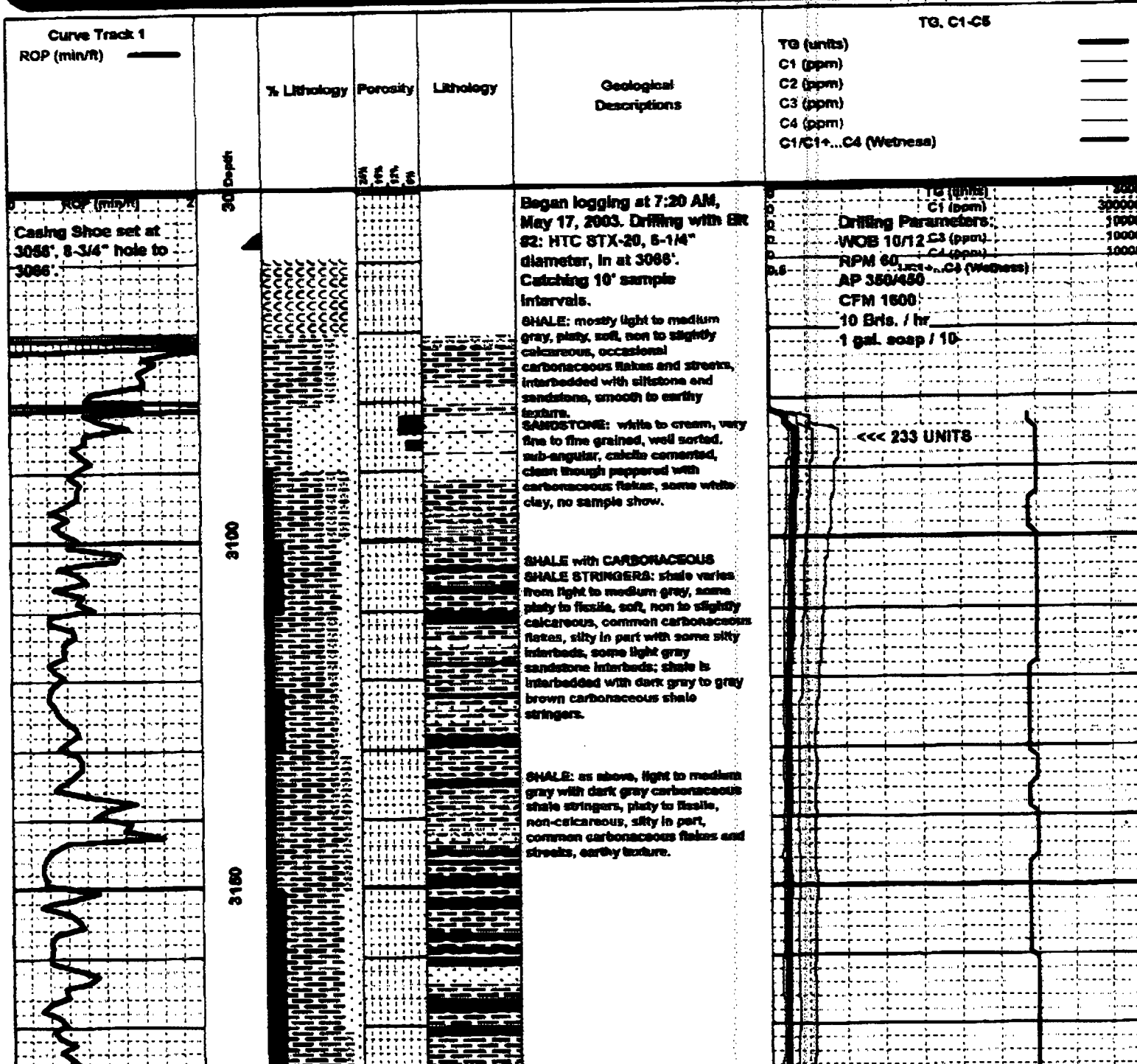
POROSITY TYPE

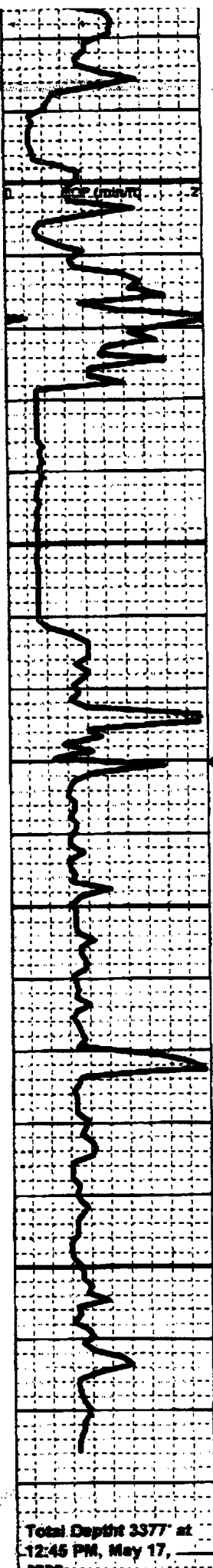
E Earthy
 F Fenest
 F Fracture
 X Inter
 A Moldic
 O Organic
 P Pinpoint
 V Vuggy
 S SORTING
 W Well
 M Moderate

P Poor
 R ROUNDING
 R Rounded
 r Subrnd
 a Subang
 A Angular
 OIL SHOWS
 E Even
 S Spotted
 Q Ques
 D Dead
 INTERVALS

None
 Core
 Dst
 Can 2
 Can 3
 Can 4
 Can 5
 Can 6
 EVENTS
 Rft
 Sidewall
 Bit trip

Csg shoe
 Fracture
 Gas show
 Midnight
 Survey
 Mops
 survey
 Dz can
 Carbide





3200

3260

3300

3350

Coal

Coal / Carb Shale

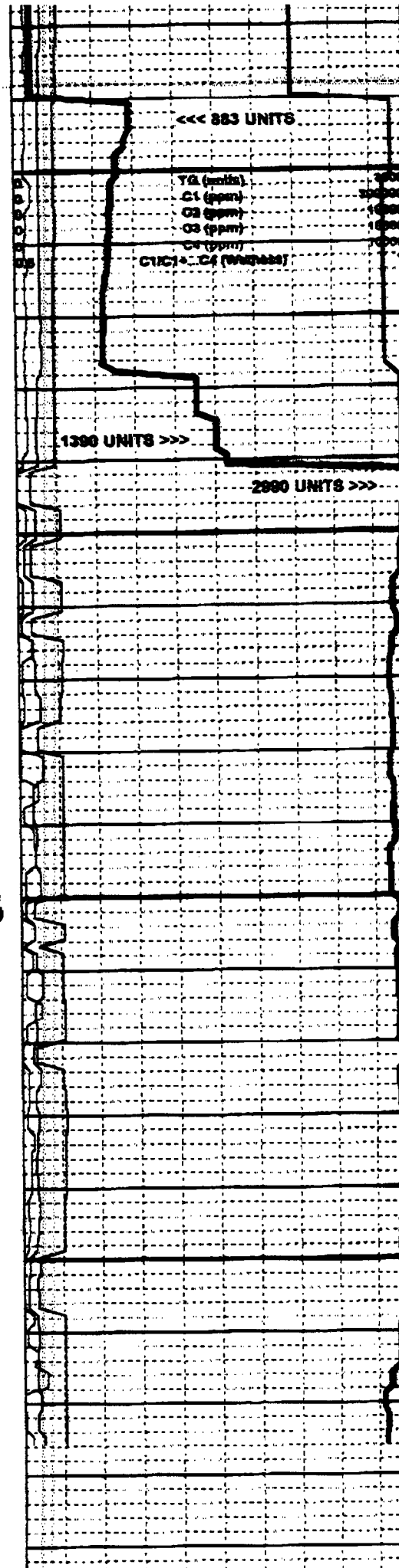
COAL INTERVALS:

3152' - 3153' 1'
 3167' - 3168' 1'
 3191' - 3197' 6'
 3208' - 3208' 2'
 3229' - 3262' 33'

Total Coal 43'

Top of Pictured Cliffs
 Sandstone at 3280' (+ 3184)

SANDSTONE: white to cream, some light brown, 'salt and pepper' appearance, fine to some very fine (upper) grained, very well sorted, sub-rounded, some sub-angular, rare pale green grains interpreted as weathered glauconite, occasional emerald green glauconite, some white clay, no sample show.

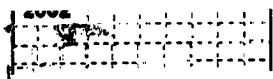


<<< 883 UNITS

TA (units) 1000
 C1 (ppm) 100000
 C2 (ppm) 10000
 C3 (ppm) 10000
 C4 (ppm) 10000
 C1(C) + C4 (Weight %)

1390 UNITS >>>

2990 UNITS >>>



28

