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BENCH MARK GEOLOGICAL SERVICES

HYDROCARBON WELL LOG

ABBREVIATIONS

CO — Circulate Out
CG — Connection Gas
CB — Core Bit
DC — Depth Correction
DS — Directional Survey
DST — Drill Stem Test
DTG — Down Time Gas
FC — Filter Cake
LAT — Logged After Trip
NB — New Bit
NDR — No Data Recorded
NR — No Returns
PP — Pump Pressure
RPM — Rotary Speed
SPM — Pump Strokes
TG — Trip Gas
TGR — Trip Gas Recycle
Vis — Viscosity
WL — Water Loss
WOB — Weight on Bit
Wt — Density Of Drill Fluid

LITHOLOGY MODIFIERS

// — Anhydritic
B — Bentonitic
+ — Calcareous
■ — Carbonaceous, Coaly
/ — Dolomitic
F — Fossiliferous
~ — Glauconitic
◇ — Oolitic
P — Pyritic
^ — Siliceous

Cgl
Ss
Siltst
Sh
Coar
Chl
Salt
Anhy
Do
Ls
Igneous
Meta
Tuff
No Sample

OPERATOR Blackwood and Nichols

WELL NE Blanco Unit 477

FIELD _____

LOCATION sec 29 T30N R7W

CO/STATE Rio Arriba Co., New Mexico

ELEVATION KB 6351 ft. GL 6336 ft.

SPUD DATE 8/28/89

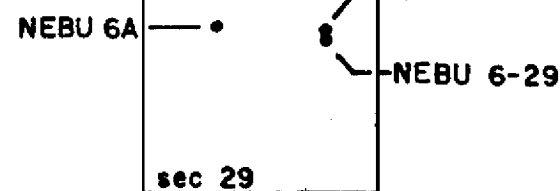
INTERVAL LOGGED 3050' - 3199

DATE LOGGED 9/2/89

LOGGING GEOLOGISTS Randy Laney, Danny Wyckoff

INSTRUMENTATION FID chromatograph and total gas detector

WELL LOCATION



LEGEND—GAS CURVES

TOTAL GAS T
METHANE 1
ETHANE 2
PROPANE 3
ISO & N-BUTANE 4
OIL INDICATOR $\frac{C_2 + C_3}{C_1}$ 0

HYDROCARBON ANALYSIS

TOTAL GAS			Reported in Units	
10	100	1000	10	100
GAS CHROMATOGRAPHY			Reported in PPM	
100	1000	10000	100	1000
OIL INDICATOR			Dimension Less	
0.01	0.1	1.0	0.01	0.1

RATE OF PENETRATION

Min./ft.

DEPTH
ft

LITHOLOGY
OBSERVED
%

Visual
Show
G.P.T.

Lithology
Interp

Lithology
Descriptions
and Remarks

