ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL SITE GEOLOGY — MUD LOGGING

2450 INDUSTRIAL BLVD. PHONE (303) 243-3044 GRAND JUNCTION, COLORADO 81505

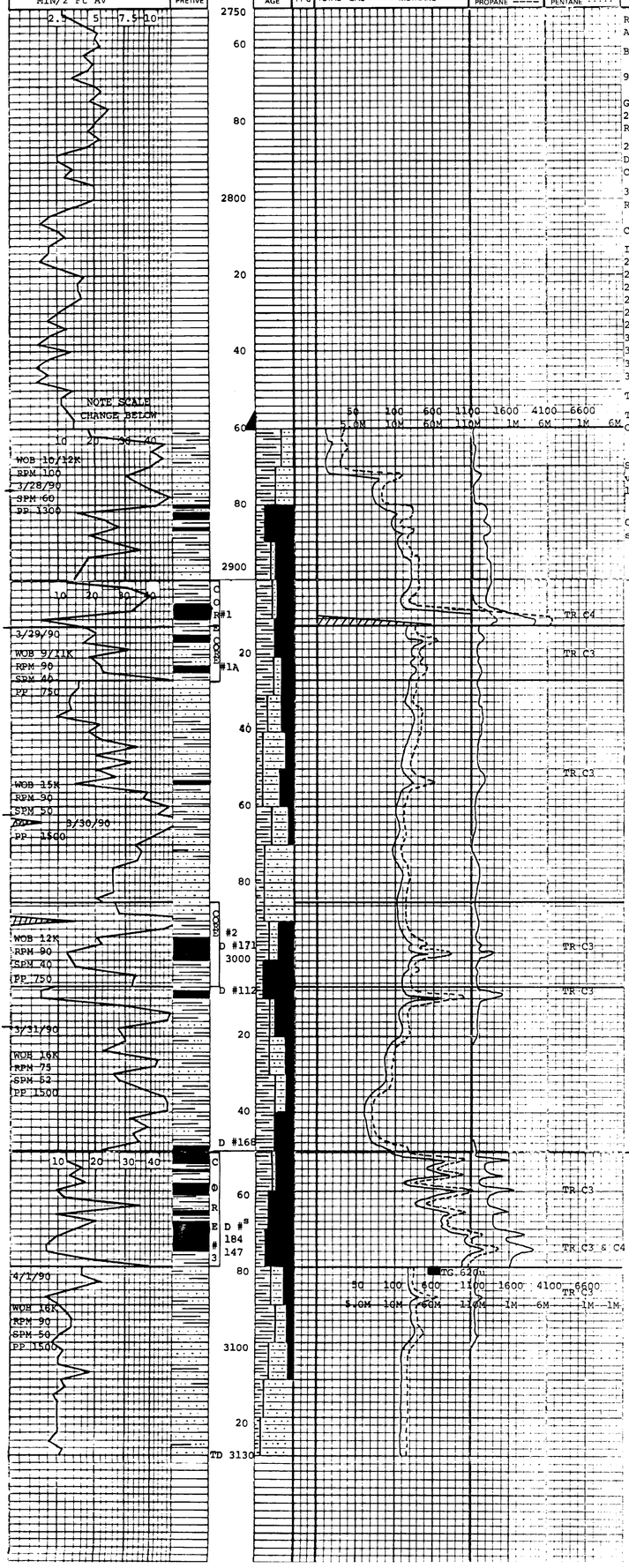
RECEIVED
APR 12 1990
OIL CON. DIV
DIST. 3

COMPANY	NORTHWEST PIPELINE CORP.	LOCATION	1560' FSL & 810' FWL SEC. 35, T31N, R8W
WELL	BLANCO #201	COUNTY	SAN JUAN
FIELD	BASIN FRUITLAND COAL	STATE	NEW MEXICO
ELEVATION	GR 6194 DF 6208	DRILLING FLUID	

	FROM	TO
DEPTH LOGGED	2860'	3130'
DATE LOGGED	3/27/90	4/1/90
ENGINEERS	CURT P. ZELEPUGAS	

SHALE, DOLOMITE, COAL, SANDSTONE, CHERT, ANHY-GYP, LIMESTONE, SALT, SILTSTONE

DTG - DOWN TIME GAS
DST - DRILL STEM TEST
SLM - STEEL LINE MEAS.
LAT - LOGGED AFTER TRIP
WOB - WEIGHT ON BIT
RPM - REVOLUTIONS/MIN.
SPM - STROKES/MIN.
PP - PUMP PRESSURE
DEVIATION
TG - TRIP GAS
CG - CONNECTION GAS
NB - NEW BIT
NR - NO RETURNS
CO - CIRCULATE OUT
NS - NO SAMPLE
RR - RERUN
CB - CORE BIT
SHOW REPORT



REMARKS

WT	VIS	WL	CKE	PH

RMEC FIL UNIT #29 ON LOCATION AND RIGGED UP 3/27/90 :00pm

BEGIN LOGGING 3/27/90 :00pm

9 5/8" CASING SET AT 2860'

GENERAL BIT INFORMATION:
2860' TO 3080' DRILLED WITH RERUN SECURITY S84F 8¼"

2860' TO 3080' CORED INTERVALS DRILLED WITH DIAMANT BOART CMD 123 8¼"

3080' TO 3130' DRILLED WITH RERUN SECURITY S33F 7 7/8"

COAL INTERVALS AND THICKNESS

INTERVAL	NET COAL
2880'-2887'	4'
2906'-2910'	4'
2914'-2916'	2'
2922'-2924'	2'
2953'-2954'	1'
2994'-3000'	6'
3008'-3010'	2'
3049'-3055'	5'
3058'-3061'	3'
3065'-3076'	10'

TOTAL CPI THICKNESS 39

TOTAL GAS SCALE
CHROMATOGRAPH SCALE

10.5 45

SH mgy-dkgy,frm-hd,blky-ireg, vslty grd to arg sltst,calc, loc carb

COAL blk blkbrn,sft,sbbit,blky sbblky,vslty,vit ip

10.5 60

WELL SHUT IN
MUD UP TO 11.4 80 VIS
TO KILL PRESSURE

COAL blk,bit-sbbit,sft-brit, blky-sbplty,vit lstr conch frac,some occ unidir cltg, tr pyr

11.1+ 53 8.4 1 9.5

SS ltgy gy,fg-mg,w occ crs gr sbang-sbrnd,msrt,mcmt,vslty grd to arg sltst, NFSOC

SH lt-mgy gybrn blk occ wh frm-hd,blky-ireg,vslty grd to arg sltst,loc sdy,sl calc, vcarb

11.6 74 6.8 2 9.5

COAL blk,bri-dul,sbbit-bit, sft-brit,blky-ireg,vit ip, loc conch good vis desorb

SS ltgy gybrn,vfg-mg,sbang sbrnd,msrt,mcmt,vslty,tr min flour

11.4 60 6.4 1+ 9.5

SH gy gybrn brn blk,frm-hd blky ireg,sltst,calc carb

11.4 66 6.4 1+ 8.5

COAL blk gyblk,bri-dul,sbbit-bit,vsft-brit,blky-ireg,vit ip,conch frac ip

SS gy gybrn clr s&p occ wh, vfg-mg w occ crs gr,sbang-sbrnd,psrt,mcmt,vslty,calc, tr min flour

SS ltgy gy w occ clr s&p,vfg-mg w occ crs gr,sbang-sbrnd, psrt,mcmt,calc,slty ip,tr min flour

11.5 65 6.4 1+ 9

TD 3130 4/1/90 6:30 am
UNIT # 29 RELEASED 8:00 am