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JAN 21 1992
OIL CON. DIV.
DIST. 3

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL SITE GEOLOGY · MUD LOGGING
2538 INDUSTRIAL BLVD · PHONE 303 243-3044 · GRAND JUNCTION, CO 81505

COMPANY	PHILLIPS PETROLEUM CO	LOCATION	1196' FSL & 1159' FWL SEC 21 T31N R8W
WELL	SAN JUAN 32-8 #234	COUNTY	SAN JUAN
FIELD	BASIN FRUITLAND	STATE	NEW MEXICO
ELEVATION	GR 6527' DF 6538'	DRILLING FLUID	FRESH WATER

	FROM	TO
DEPTH LOGGED	3221'	3398'
DATE LOGGED	12/11/91	12/11/91

ENGINEERS JACK PALUSKA

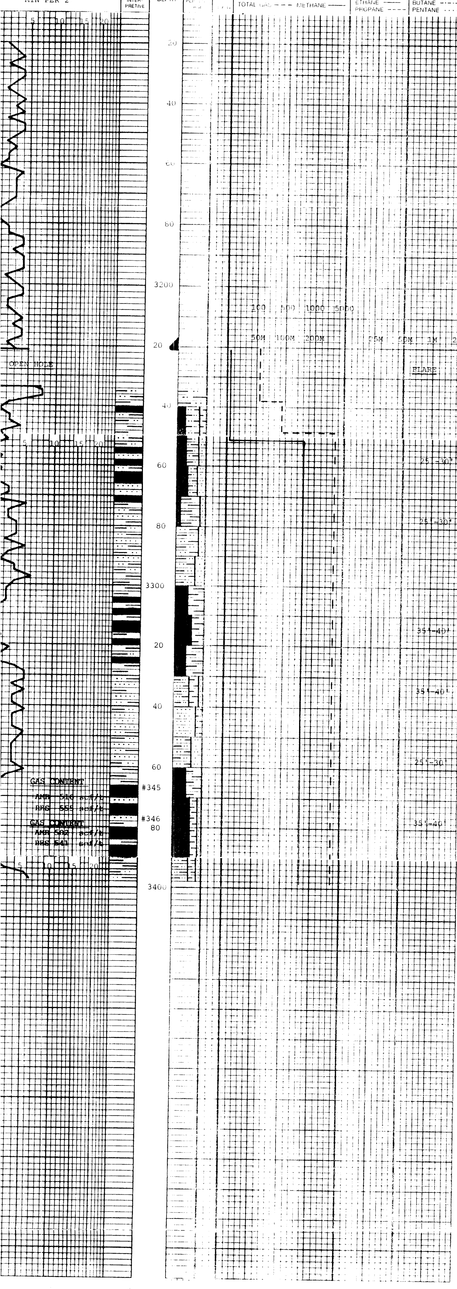
SHALE · SANDSTONE · LIMESTONE · DOLOMITE · CHERT · SALT · COAL · SHALE GRP · SILTSTONE

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

DRILLING RATE IN MIN PER 2'

LITHOLOGY · DEPTH · CHROMATOGRAPH (HYDROCARBONS IN PPM) · M - 1000 PPM · TOTAL GAS · METHANE · ETHANE · PROPANE · BUTANE · PENTANE



REMARKS

WT	VS	WL	LAE	PH

RMGC FIELD UNIT #12 ON LOCATION 12/11/91 @ 0100

7" CASING SET @ 3221'

COAL BEDS	NET COAL
3240-42	
3254-56	40'
3258-60	
3262-66	
3270-72	
3304-06	
3308-10	
3312-16	
3318-20	
3324-26	
3366-70	
3372-76	
3380-84	
3386-90	

DESORPTION CANISTERS
#345 3366-76
#346 3380-90

OPEN HOLE N.S.

SLTST m-ltgy sdy m hd plty
COAL blk-dkgy dul-bri bnd rthy-arg m hd sbblky tr bldg tr clt

SLTST m-dkbrn sdy m carb m hd plty
COAL blk-dkgy bri-dul bnd hd conch frac sbblky-blky m-f bldg f clt interbd with sh ltbrn dns slty-carb mtx f-vf grn m srtd ip m cmt sbang ip grdg to sltst
SLTST m-ltgy sdy m hd plty grdg to ss ltgy
SS ltgy-ltbrn occ frst-transl fri m dns slty mtx f-vf grn m srtd m cmt
SH dkgy-blk-occ dkbrn slty carb m hd plty grdg to sltst dkbrn sdy carb
COAL blk-dkgy bri-dul arg ip bnd hd sbblky-blky occ conch frac m-f bldg f-p clt
COAL blk-dkgy dul-bri bnd m hd sbblky f-p bldg f-p clt occ conch frac interbd with sh dkgy-blk slty carb sd plty-sbblky
SLTST m-dkgy sdy ip carb hd plty
SS ltgy-occ ltbrn dns slty mtx f-vf grn m srtd ip m cmt sbang grdg to sltst
SH dkgy-blk slty carb hd plty grdg to sltst dkbrn carb sdy hd plty
COAL blk-dkgy bri-dul arg ip conch frac m hd sbblky m-f bldg f-p clt interbd with sh ltbrn slty-carb dns f-vf grn m srtd ip m cmt sbang

SH dkgy-blk slty carb m hd plty
SLTST dkgy-dkbrn sdy sl carb hd plty

TD 3398'

UNIT RELEASED 12/11/91 @ 0830