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SOFTROCK GEOLOGICAL SERVICES

591 CR 233, Durango, CO (970) 247-7726

OIL CON. DIST. 3

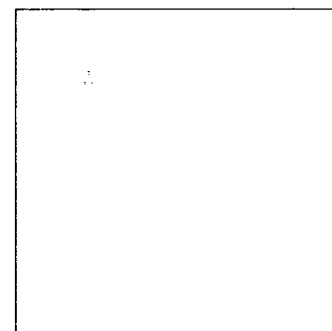
WELL INFORMATION

COMPANY: Phillips Petroleum Company
WELL NAME: San Juan 30-5 Unit No. 260
LOCATION: NENE Sec. 09, T30N-R5W, 1490' FSL 1175' FWL
Rio Arriba County, New Mexico
ELEVATION: GL: 6323' KB: 6338'
FIELD: Basin Friutland

INTERVAL LOGGED: 2980' - 3098' DATE LOGGED: 10/18/98
CONTRACTOR: Big A #37, Dave Green Co. Man
SPUD DATE: 10/15/98

WELLSITE GEOLOGISTS: Peter D. Falk, Jeff Davies
GAS INSTRUMENTATION: FID Chromatograph and Total Gas Detector

SECTION 9



HOLE SIZES - CASING DATA - MUD TYPES

HOLE SIZES: 12 1/4" to 373'
8 3/4" to 2980'
6 1/4" to 3098' underreamed to 9 1/2"
CASING SIZES: 9 5/8" to 370'
7" to 3976'
MUD TYPES: Water to 2994'
Air & Water Mist



CONGL

SS



SLTST

SH



COAL



CHERT



SALT



ANHY



LS



DOL



IGNEOUS



BENTONITE



TUFF

ABBREVIATIONS

Ck - Filter Cake
CO - Circulate Out
CG - Connection Gas
DC - Depth Correction
DS - Directional Survey
DST - Drill Stem Test
DTG - Down Time Gas
LAT - Logged After Trip
NB - New Bit
OB - Old Bit
NR - No Returns
pH - pH of Mud
PP - Pump Pressure
RPM - Rotary Speed
SPM - Pump Strokes
TG - Trip Gas
Vis - Viscosity of Mud
WL - Water Loss of Mud
WOB - Weight on Bit
WT - Weight of Mud

LITHOLOGY MODIFIERS

A - Anhydritic
B - Bentonitic
C - Calcareous
CC - Carbonaceous / Coaly
D - Dolomitic
F - Fossiliferous
G - Glauconitic
O - Oolitic
P - Pyritic
S - Siliceous

SPECIAL SYMBOLS

- Core - DST
 - Desorption Can
 - Slide

Well: San Juan 30-5 Unit No. 260

DRILL RATE					POROSITY	LITHOLOGY	DEPTH	% LITHOLOGY	SHOWS	TOTAL GAS UNITS		C1 - C4 PPM		DESCRIPTIONS / COMMENTS		
ROP										1 UNIT GAS = 100 PPM Hydrocarbons						VERTICAL SCALE: 5" = 100'
Minutes Per Foot																
0	1	2	3	4												
							2980			10 ft. sample interval, drilled with water until 2994'. Drilling with Air and Water Mist from 2994' to TD.	0	METHANE	50000			
									Bit '1' HTC 6T-L, 6 1/4" in. at 3980'	0	ETHANE	10000				
										0	PROPANE	10000				
										0	BUTANE	10000				
100% 8-10K RPM 70 PP 275 1400 CFM Air 12 Bbls/Hr Water							3000							COAL: very poor sample quality - most of sample and gas data lost when borehole unloaded at 2994' in change from water to air/mist drilling. Coal consist mostly of bright vitreous and satin lustered, conchoidal fracture, some cleating.		
							3020							SHALE: light to medium gray, platy, carbonaceous, silty.		
							3040							SANDSTONE: white, vf grained, sub rounded, calcite (well) cemented, clay plugged, no show.		
							3060							COAL: mostly bright black vitreous and intermediate satin, blocky with some well developed cleat faces including intersection cleat faces, occasional conchoidal fracture, micro-laminated bedding texture, a few observed platy calcite fragments observed suggesting closed fractures.		
							3080							SHALE: med to dark gray, platy, carbonaceous, pyritic, silty		
							3100							COAL: mostly intermediate satin (65%) and bright black vitreous (25%), only minor dull gray black (5%). Coal is blocky displaying numerous well developed cleat faces including many 90 degree intersecting cleat faces, micro-banded bedding texture. Secondary mineralization consist of numerous platy calcite fragments (8 observed in lower coal samples) suggesting closed fractures and at least one quartz crystal fragment - interpreted as open fracture fill. Overall a very good coal.		
TD @ 3098' GAUGE: 8 Lbs out of manifold 1 Lbs out of 2" line							3120									
							3140									