

RECEIVED
APR - 6 1999
OIL CON. DIV.
DIST. 3

SECTION 09

INTERVAL LOGGED: 2990 - 3146' DATE LOGGED: 3/13 - 3/14/99
CONTRACTOR: Key 37, David Green Co. Man
SPUD DATE: 3/09/99

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	~10	~10
2	~20	~20
3	~30	~30
4	~40	~40
5	~50	~50
6	~60	~60
7	~70	~70
8	~80	~80
9	~90	~90
10	~100	~100

SPECIAL SYMBOLS

- Core  - DST
- Desorption Can
- Slide

Company: Phillips Petroleum Company										Well: San Juan 30-5 Unit *264									
DRILL RATE					TOTAL GAS UNITS					C1 - C4 PPM					DESCRIPTIONS / COMMENTS				
ROP					1 UNIT GAS = 100 PPM Hydrocarbons										VERTICAL SCALE: 5" = 100'				
Minutes Per Foot					TOTAL GAS					PROPANE									
					C1/C1-C4					BUTANE									
0	1	2	3	4															
No ROP data until 2998', Geolograph not engaged.					10 ft. sample interval Drilling with Air & Water Mist 8 3/4" Hole drilled to 2990', 7" casing set at 2974' Re-run Bit: HTC STR-20. 6.25" diameter, in at 2990'					MOB 4K PP 270 RPM 66 CMF 2100 15-17 BBL / HOUR 2 GAL SOAP / 10 BBL					SHALE: varies in degrees of gray, from light to dark, silty, micro-micaceous, sup platy, soft, trace of interbedded coal laminae SANDSTONE: white to light gray, very fine grained, sub rounded to sub angular, well sorted, calcite cemented, no show COAL dull gray black to flat black, this coal is interbedded and gradational with a carbonaceous shale. Shales in samples show thin coal laminae. Coal is sub blocky to platy, no cleats or secondary mineralization - very poor coal.				
															SHALE: light gray to cream, medium gray to dark gray, sub blocky to platy, occasional very thin coal laminae. SANDSTONE: white to light gray, very fine grained, well sorted, sub angular to sub rounded, occasional darker carbonaceous fragment, moderately cemented with calcite, look tight with abundant intergranular white clay, no fluorescence or cut, no show.				
															SANDSTONE: light gray to gray brown, very fine to fine grained, moderately well cemented, mostly unconsolidated in sample - poorly cemented with calcite, no show.				
															SHALE: medium gray, sub platy, silty, soft, occasional very thin coal laminae, trace bentonite COAL primarily a lustrous coal, semi bright satin (60%), with bright vitreous coal (25%), some flat gray black coal (15%) Vitreous material seen often as thin discontinuous laminae in duller matrix. Fair to poor cleat development, occasional conchoidal fracture, mostly sub blocky. Very good secondary mineralization with abundant smoky quartz crystals and platy white very thin to thick calcite fragments - suggesting very good fracturing. Trace amber seen in coal matrix, trace pyrite some light brown bentonite.				
3/14/99					3' - 10' Flare here to TD.					Maximum Total gas 360 units,					NOTE: After 6 1/4" drill out hole underreamed to 1/2" with Baker Tools underreamer.				
TD @ 3146, 1.5lb gauged out of 2" line.					COAL INTERVALS: 3010 - 3014 4' 3045 - 3046 1' 3110 - 3126 16' 3128 - 3142 14' TOTAL COAL 35'										Overall good to very good coal				