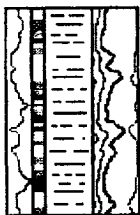
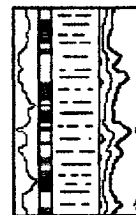


SOFTROCK GEOLOGICAL SERVICES, INC.



591 County Rd. 233 Durango, CO 81301

(970) 247- 8868 fax 247- 5108



Scale 1:240 (5"=100') Imperial

Well Name: San Juan 30-5 Unit No. 265 (Kfc)
Location: ⁶⁻ Sec 10 T30N R5W Rio Arriba Co., NM
Licence Number: Region:
Spud Date: 4/18/2000 Drilling Completed: 4/23/2000
Surface Coordinates: 1840' FNL
2510' FEL

Bottom Hole

Coordinates:

Ground Elevation (ft): 6482' K.B. Elevation (ft): 6497' est

Logged Interval (ft): 3120' To: 3269' Total Depth (ft): 3269'

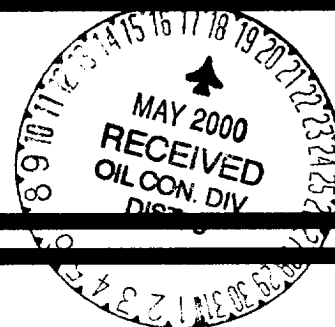
Formation: Fruitland

Type of Drilling Fluid: air / mist

Printed by MUD.LOG from WellSight Systems Inc. 1-800-447-1534 www.wellsight.com

OPERATOR

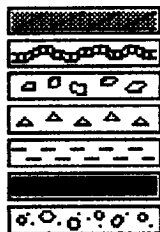
Company: Phillips Petroleum Co.
Address: 5525 Hwy. 64
Durango, CO 87401



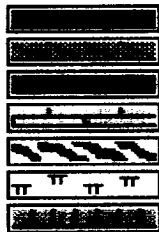
GEOLOGIST

Name: Peter D. Falk
Company: Softrock Geological Services
Address: 591 CR 233
Durango, CO 81301
(970) 247-8868 247-5108 fax

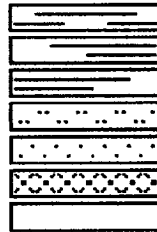
ROCK TYPES



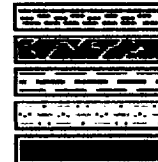
Anhy
Bent
Brec
Cht
Clyst
Coal
Congl



Dol
Gyp
Igne
Lmst
Meta
Mrst
Salt

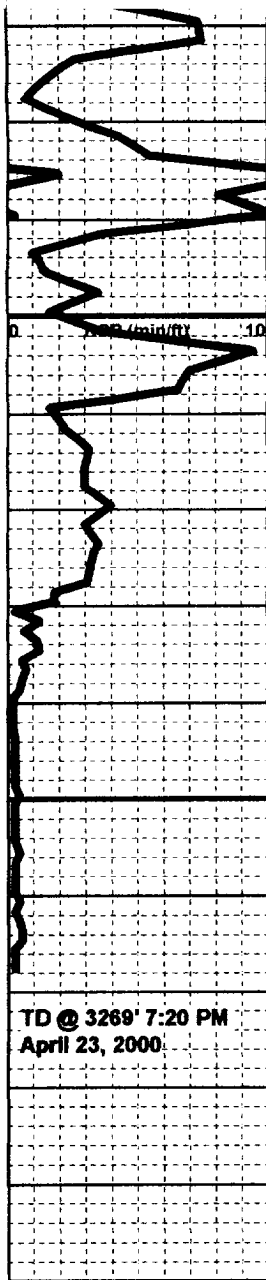


Shale
Shcol
Shgy
Sltst
Ss
Till
Blank



Clyst
Fracture
Shale
Sltst
Carb sh

Curve Track 1 ROP (min/ft)		% Lithology	Porosity	Lithology	Geological Descriptions	TG (units)	TG, C1-C5
						C1 (ppm)	C2 (ppm)
0	ROP (min/ft) 10	31	Depth				
			24% 18% 12% 6%				
					Drilling with air and water mist, 8-3/4" hole drilled to 3120', 7" casing set at 3120'. RR Bit #3: STC STR-09 in at 3120', catching 10' sample intervals.	TG (units) C1 (ppm) C2 (ppm) C3 (ppm) C4 (ppm) C5 (units) C1/C1+...C4 (Wetness)	500 60000 1000 1000 1000 1000 1000
	No ROP Data				SAMPLE 98% CEMENT - lithology inferred to be shale	WOB 4K RPM 70 AP 275 CFM 2000 10 bris/hr 1 gallons soap/10 Bris water	
					Shale: light to some medium gray, soft, occasionally silty, non to slightly calcareous, common black carbonaceous flakes, earthy to occasionally waxy texture.		
		3150			Coal: flat black to dull brown black, mostly sub platy, no observed cleating, grades into and interbedded with dark brown carbonaceous	13 Unit show - heavy ended, only 64% Methane	



3200

3250

3300

TD @ 3269' 7:20 PM
April 23, 2000

Sandstone: light gray, fine to very fine grained, mostly sub angular, well sorted, well cemented with calcite, abundant white clay seen between grains, clean with only trace carbonaceous material, no show.

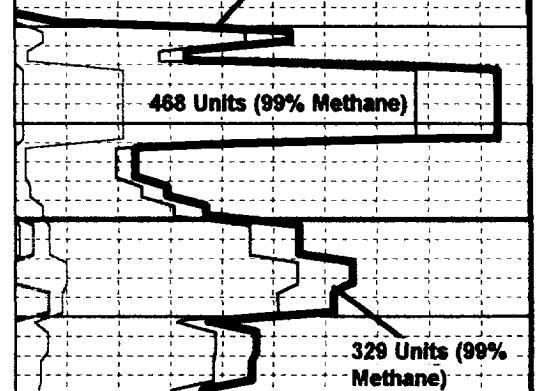
Shale, Siltstone, and Sandstone - Interbedded: Shale is light to medium gray, soft, very silty; siltstone is light gray to gray brown, argillaceous, slightly calcareous and carbonaceous; sandstones is white to light gray, very fine grained, clay-rich, tight no show.

Basal Coal: varies from flat gray black to silky (40%), some intermediate semi-bright satin (35%) and some bright black vitreous material (20%) seen both as micro-laminae and thicker vitreous seams. Coal exhibits excellent cleat development with numerous well developed discrete planer surfaces and very common intersecting cleat faces at both oblique and right angles. Also, abundant platy calcite both thick and thin, often attached to coal cutting, some with suture down the middle - all suggesting excellent natural fracturing.

WOB 6K
RPM 80
AP 300
CFM 2000
10 Bris water / hr 1
Gal soap / 10 Bris

1	TG (units)	500
1	C1 (ppm)	80000
1	C2 (ppm)	1000
1	C3 (ppm)	1000
1	C4 (ppm)	1000
1	C5 (units)	1000
0	C1/C2 + C3 + C4 (Wetness)	

Onset of flare at 3229', initially 15' steady
10 - 15' here to TD



468 Units (99% Methane)

329 Units (99% Methane)

TOTAL COAL:
3152' - 3156' 4'
3229' - 3231' 2'
3232' - 3233' 1'
3235' - 3269' 34'
TOTAL COAL 41'