

Geological Services LLC

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

Well Name: Gold Rush 31-32

Location: NW/NE Sec 32 T31S R65W

Licence Number: 05-071-08285-00 Region: Purgatoire River

Spud Date: 11/19/05 Drilling Completed: 11/30/05

**Surface Coordinates:** 

**Bottom Hole Coordinates:** 

Ground Elevation (ft): 7204 K.B. Elevation (ft): 7208 Logged Interval (ft): 371' To: 1820 Total Depth (ft): 1820

Formation: Poison Canyon / Raton / Vermejo

Type of Drilling Fluid: Air/Mist

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**OPERATOR** 

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**GEOLOGIST** 

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Rig

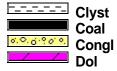
Pense #18

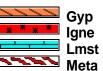
Comments

8 5/8" #24 Surface Casing set to 371'

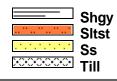
**ROCK TYPES** 

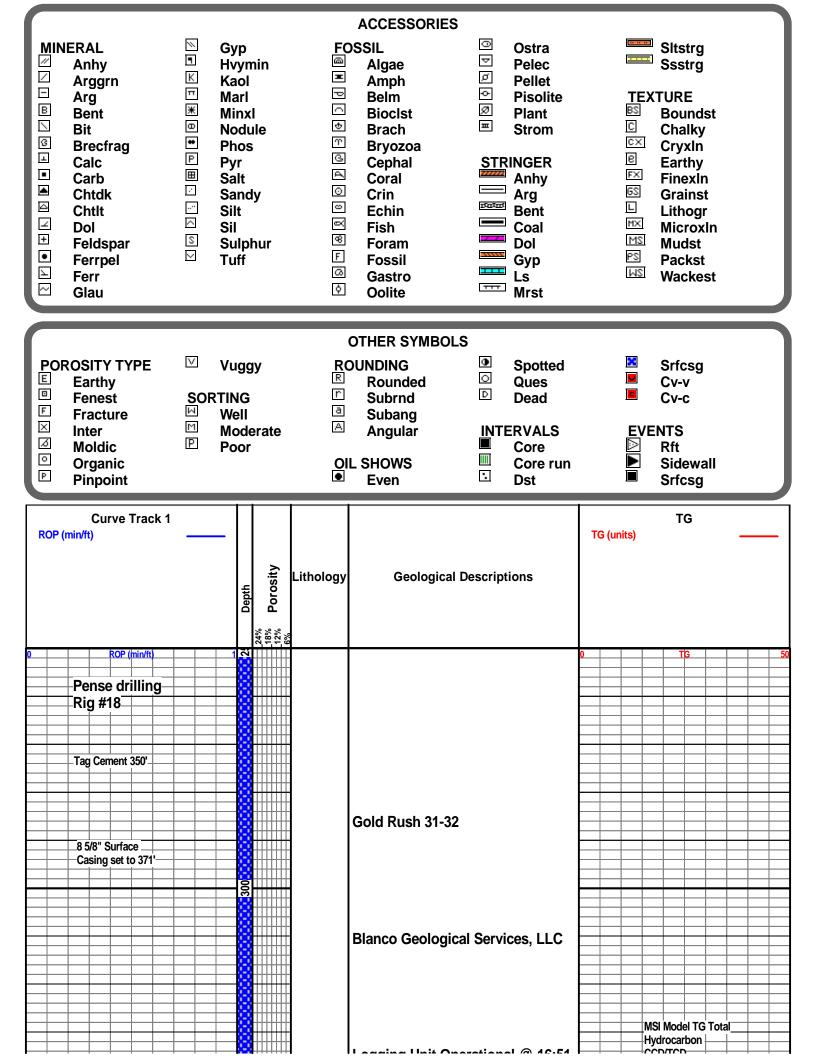


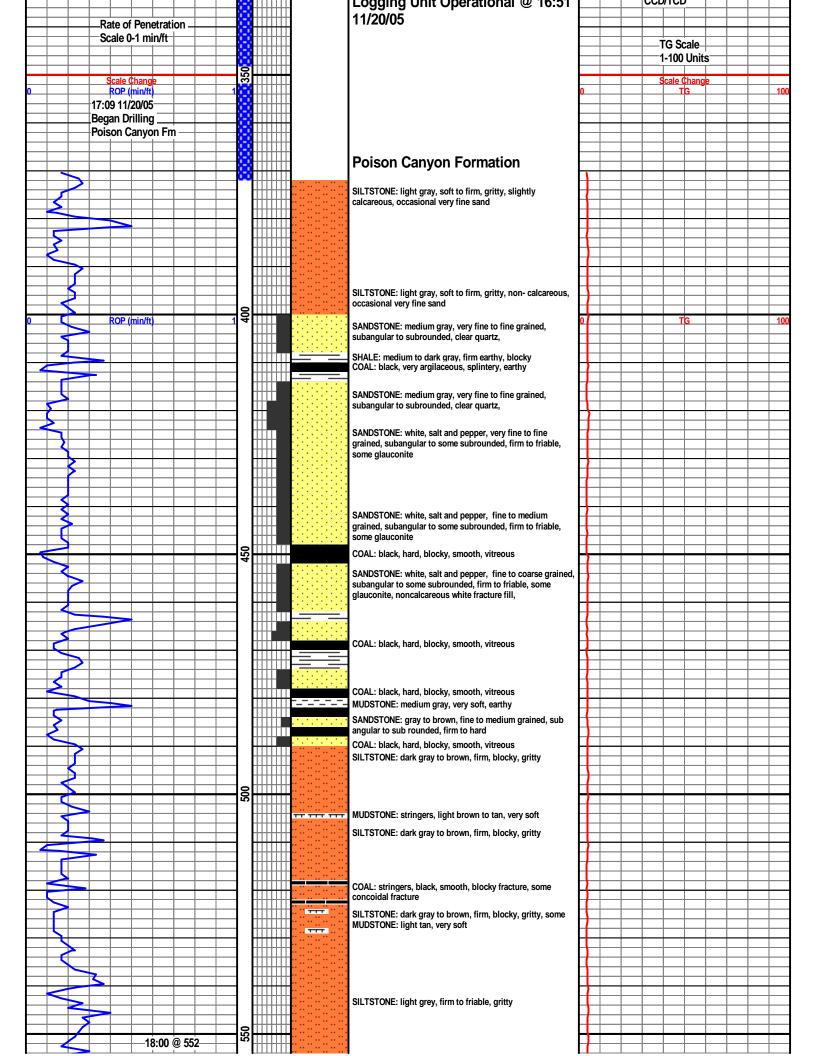


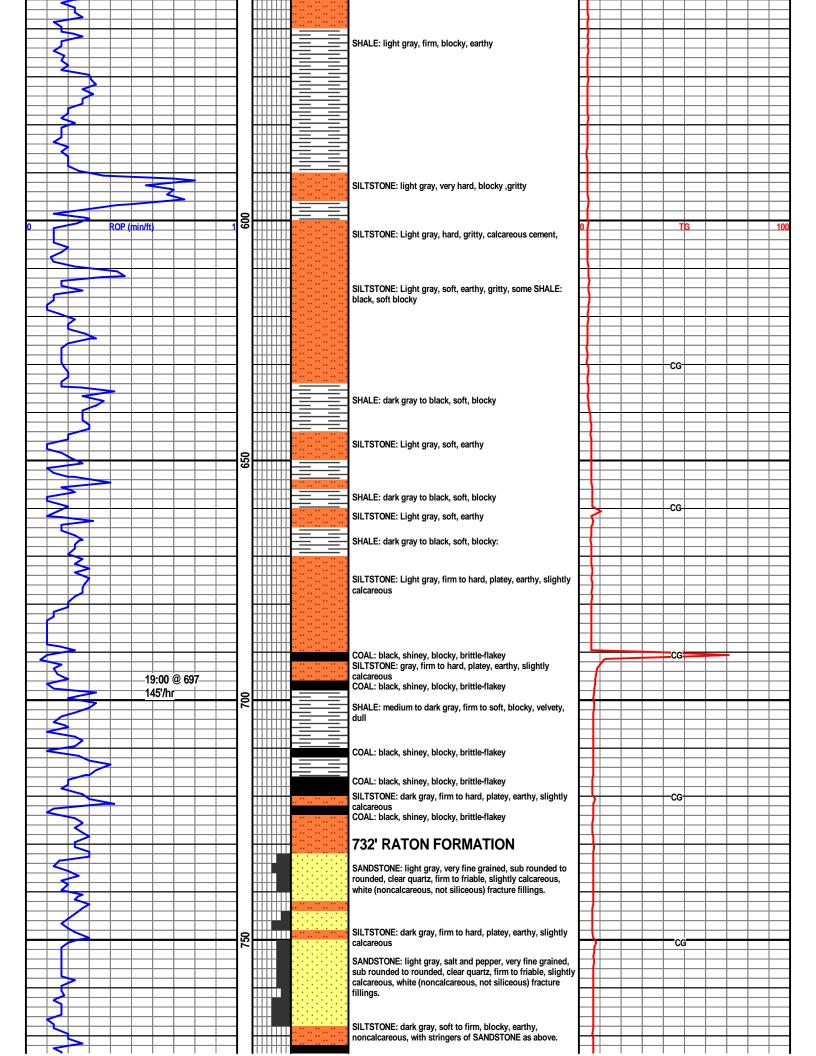












	COALs: black, shiney, blocky, brittle-flakey	
		CG
	SANDSTONE: light tan, very fine to medium grained, subangular to subrounded, clear quartz, firm to hard,	
	noncalcareous, white matrix.	
0 ROP (min/19:41 @ 809	SHALE: dark gray, hard, noncalcareous, earthy	0 TG 10
19:41 @ 809 112'/hr		
11/21/05 @ 809	SANDSTONE: light gray, salt and pepper, fine to medium	CG-1258Max Gas 6462
Core #1 810'-820' 8'/10'	grained, subangular, hard, calcareous	Max Gas 0402
03:38-03:41	SHALE: dark gray, hard, noncalcareous, earthy COAL: firm, smooth, irregular fracture,	
Core #2	SANDSTONE: It gry, vf-fg. subangular, firm	_CG-5384Max Gas = 5384
820'-830' 9'/10'	COAL: firm, smooth, irregular fracture, SANDSTONE: It gry, vf-fg, subangular, firm, abnd biotite	
04:29-04:35		
Core #3	SHALE: medium gray, firm to hard, carbonaceous debris	CG-5236.8
830'-840' 10'/10' 05:22-05:28	COAL: black, hard, high ash content	
Core #4	SHALE: medium gray, firm to hard, smooth fracture,	_CG-4849.7
840'-850' 10'/10'		
06:07-06:10	SHALE dark gray to medium gray hard smooth earthy	CG 4759.4
Core #5 9'/10'	SHALE:dark gray to medium gray, hard, smooth, earthy, calcareous filled fractures and voids	CG-4759.4
06:58-07:01	COAL: black, hard, high ash content SHALE: dark gray, hard, earthy, noncalcareous	
Core #6 10'/10'	COAL: black, hard, shiney, high ash content	CG-5361
860'-870'		
07:54-07:59	SHALE: dark gray, hard, earthy, slightly calcareous	CG-4425
Core #7 10'/10' 870'-880'	SHALE: dark gray, hard, earthy, slightly calcareous	
08:37-08:41		
Core #8 9'/10'		-CG-4367
880'-890' 09:26-09:29	SHALE: dark gray, hard, earthy, slightly calcareous, very	
Core #9	carbonaceous, almost coally	
890'-900' 9'/10'	COAL: black, hard, shiney, not very fractured	CG-4583
10:08-10:12	SHALE: dark gray, hard, earthy, noncalcareous COAL (6"): black, vitreous, splintery, blocky.	CG-3935
Core #10 8'/10'	SHALE: black, hard, smooth, velvety, carbonized ogranic	c
900'-910' 10:58-11:00	material  COAL (6"): black, vitreous, splintery, blocky.	
Core #11 9.3'/10'	SHALE: black, hard, smooth, velvety, carbonized ogranic	c CG-3751
910'-920' 11:34-11:36	material  COAL (6"): black, fissile, splintery, vitreous	
11.5711.50		-CG-22.5
Core #12 10'/10'	SHALE: medium gray, silty, very hard, carbonaceous del wavey bedding,	bris,
920'-930' 12:13-12:		
Core #13 10'/10'	SHALE: medium gray, silty, very hard, carbonaceous del	bris, CG-11.4
930'-940'	some very fine sand grains, wavey bedding	
13:19-13:24	GLIAN Fdi	-CG-5969
Core #14 10'/10'	SHALE: medium to dark gray, silty, very hard, carbonace debris, some very fine sand grains, wavey bedding	eous
14:38-14:45		CG-5928
Core #15 10'/10'	SHALE: medium to dark gray, firm, noncalcareous, evide	
950'-960' 15:31-15:33	of low energy soft sediment deformation 957-960. Occasional very fine grained mica flakes	
Core #16 9.75"/10'		CG-4369
960'-970'	SHALE: medium to dark gray, firm, noncalcareous, evide of low energy soft sediment deformation- a vertical	ence
16:23-16:27	discontinuity in the shale in 961-963. Occasional very fir grained mica	ne
Core #17 14.75/15'		CG-4758
970'-985'	SHALE :medium to dark gray, firm, noncalcareous, some organic debris-carbonized.	e
17:22-17:30		
	SUAL Ex modium arous becoming uses alots.	CG-5989
Core #18	SHALE; medium gray, becoming very platey, very smoot breaks, ending at 990, quiet water environment, occasion	···   /
985'-995' 10'/10'	mica flakes	H

