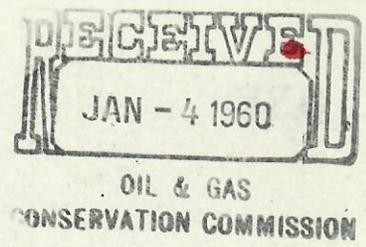


22755

#1 Herboldsheimer  
C NE SE Sec. 19-12N-53W  
Logan County, Colorado



FORMATION TOPS

NIOBRARA	4621	
CARLILE	4976	
GREENHORN	5158	
BROWN LIME	5326	
"D" SANDSTONE	5423	
"J" SANDSTONE	5534	
ELEVATION	4649	Ground
	4659	KB
COMMENCED	12-12-59	
COMPLETED	12-16-59	
TOTAL DEPTH	5615	
SURVEYS	Electric Log	145-5615
	Contact Log	5300-5611
HOLE SIZE	12 1/2	0- 160
	7 7/8	160-5615
SLUSH PUMP	6" x 16"	
ANNULAR VELOCITY	190 feet per minute	
SURFACE CASING	4 joints of 8 5/8" x 24# casing set at 145'	

05-075-07310



#1 Herboldsheimer  
C NE SE Sec. 19-T12N-R53W  
Logan County, Colorado

CORE NO. 1  
5426--5456

Cut 30 feet Recovered 30 feet

CORING TIMES:

23", 7", 8", 9", 10", 6", 6", 9", 14", 14",  
10", 12", 13", 16", 16", 15", 13", 15", 13", 12",  
5", 5", 13", 20", 15", 19", 14", 15", 10", 10".

CORE DESCRIPTION:

5426-31	(5')	Sandstone and shale reworked, sandstone silty, gray, tight, no show.
5431-33	(2')	Sandstone very fine grain, numerous and irregular carbonaceous partings, tight, no show.
5433-34	(1')	Shale, black.
5434-39	(5')	Sandstone and shale laminations, sandstone silty, tight, no show.
5439-42	(3')	Shale, black, few silt inclusions.
5442-46	(4')	Sandstone and shale laminations, sandstone silty, tight, no show.
5446-48½	(2½')	Sandstone and shale reworked, sandstone silty, tight, no show.
5448½-50	(1½')	Shale, black.
5450-56	(6')	Sandstone very fine grain to fine grain, good porosity and permeability, vertical fractures in part, no show.

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LITHOLOGY

"D" SANDSTONE:

5423-26	(3')	Sandstone and shale interbedded, sandstone very fine grain, very slight porosity and permeability, some scattered oil stain and fluorescence.
5426-56	(30')	See Core No. 1.
5456-58	(2')	Sandstone very fine grain to fine grain, good porosity and permeability, no show.

"J" SANDSTONE:

5534-52	(18')	Sandstone and shale interbedded, sandstone silty, gray, tight, no show.
5552-60	(8')	Sandstone very fine grain, white clay matrix, very slight porosity and permeability, no show.
5560-5610	(50')	Sandstone and shale interbedded, sandstone tight to very fine grain, irregular laminations of porosity and permeability, no show, no fluorescence.
5610-14	(4')	Shale, black.

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MUD DATA

The basic mud was a low pH caustic-quebracho mud. Minor amounts of sodium Tetraphosphate and soda ash were used to help maintain the desired viscosity and gel strength. At 4500 feet about 40 barrels of oil was added to the mud system. The added oil was about 6 per cent by volume.

PLUGGING DATA

The hole was filled with 10.5# mud to 160 feet. A 45 foot cement plug made up of 15 sacks of regular cement was set in and out of the base of the surface casing. The hole was then filled with 10.5# mud to within 30 feet of the surface and a 30 foot plug made up of 10 sacks of cement was set.