



Prepared in cooperation with the Department of Energy

Aquifer-Test Data for Wells H-1, H-2A, H-2B, H-2C, and H-3 at the Waste Isolation Pilot Plant, Southeastern New Mexico

Open-File Report 2006-1129

**U.S. Department of the Interior
U.S. Geological Survey**

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By G.F. Huff and Angela Gregory

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U.S. Geological Survey**

U.S. Department of the Interior
Dirk Kempthorne, Secretary

U.S. Geological Survey
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Conversion Factors and Datum

Multiply	By	To obtain
Length		
inch (in.)	2.54	centimeter (cm)
inch (in.)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1.609	kilometer (km)
Volume		
gallon (gal)	3.785	liter (L)
gallon (gal)	0.003785	cubic meter (m ³)
gallon (gal)	3.785	cubic decimeter (dm ³)
million gallons (Mgal)	3,785	cubic meter (m ³)
cubic inch (in ³)	16.39	cubic centimeter (cm ³)
cubic inch (in ³)	0.01639	cubic decimeter (dm ³)
cubic inch (in ³)	0.01639	liter (L)
cubic foot (ft ³)	28.32	cubic decimeter (dm ³)
cubic foot (ft ³)	0.02832	cubic meter (m ³)
Flow rate		
foot per second (ft/s)	0.3048	meter per second (m/s)
foot per minute (ft/min)	0.3048	meter per minute (m/min)
foot per hour (ft/hr)	0.3048	meter per hour (m/hr)
foot per day (ft/d)	0.3048	meter per day (m/d)
foot per year (ft/yr)	0.3048	meter per year (m/yr)
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)
cubic foot per day (ft ³ /d)	0.02832	cubic meter per day (m ³ /d)
gallon per minute (gal/min)	0.06309	liter per second (L/s)
gallon per day (gal/d)	0.003785	cubic meter per day (m ³ /d)
gallon per day per square mile [(gal/d)/mi ²]	0.001461	cubic meter per day per square kilometer [(m ³ /d)/km ²]
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m ³ /s)
Pressure		
atmosphere, standard (atm)	101.3	kilopascal (kPa)
bar	100	kilopascal (kPa)

Multiply	By	To obtain
inch of mercury at 60°F (in Hg)	3.377	kilopascal (kPa)
pound-force per square inch (lb/in ²)	6.895	kilopascal (kPa)
pound per square foot (lb/ft ²)	0.04788	kilopascal (kPa)
pound per square inch (lb/in ²)	6.895	kilopascal (kPa)
Density		
pound per cubic foot (lb/ft ³)	16.02	kilogram per cubic meter (kg/m ³)
Specific capacity		
gallon per minute per foot [(gal/min)/ft]	0.2070	liter per second per meter [(L/s)/m]
Hydraulic conductivity		
foot per day (ft/d)	0.3048	meter per day (m/d)
Hydraulic gradient		
foot per mile (ft/mi)	0.1894	meter per kilometer (m/km)
Transmissivity*		
foot squared per day (ft ² /d)	0.09290	meter squared per day (m ² /d)
Leakance		
foot per day per foot [(ft/d)/ft]	1	meter per day per meter
inch per year per foot [(in/yr)/ft]	83.33	millimeter per year per meter [(mm/yr)/m]

Vertical coordinate information is referenced to the North American Vertical Datum of 1988 (NAVD 88).

Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).

Altitude, as used in this report, refers to distance above the vertical datum.

*Transmissivity: The standard unit for transmissivity is cubic foot per day per square foot times foot of aquifer thickness [(ft³/d)/ft²ft]. In this report, the mathematically reduced form, foot squared per day (ft²/d), is used for convenience.

Aquifer-Test Data for Wells H-1, H-2A, H-2B, H-2C, and H-3 at the Waste Isolation Pilot Plant, Southeastern New Mexico

By G.F. Huff and Angela Gregory

Abstract

A series of aquifer tests was performed by the U.S. Geological Survey on geologic units of Permian age at the Waste Isolation Pilot Plant site between February 1979 and July 1980 in wells H-1, H-2 complex (H-2A, H-2B, and H-2C), and H-3. The tested geologic units included the Magenta Dolomite and Culebra Dolomite Members of the Rustler Formation, and the contact zone between the Rustler and Salado Formations. Selected information on the tested formations, test dates, pre-test static water levels, test configurations, and raw data collected during these tests are tabulated in this report.

Introduction

The U.S. Geological Survey (USGS) has collected, documented, and published an extensive amount of geohydrologic data (Mercer and Orr, 1979; Dennehy, 1982; Drellack and Wells, 1982; Wells and Drellack, 1982; Mercer, 1983; Richey, 1986; 1987) collected from and near the Waste Isolation Pilot Plant (WIPP) site in southeastern New Mexico (fig. 1). These data include results from a series of aquifer tests performed in wells H-1, H-2 complex (H-2A, H-2B, and H-2C), and H-3 in formations of Permian age including the Culebra and Magenta Dolomite Members of the Rustler Formation and the contact zone between the Rustler and Salado Formations. Well locations are shown in figure 1.

Purpose and Scope

The purpose of this report is to document the data collected from aquifer tests conducted by the USGS in wells H-1, H-2 complex, and H-3. This report was prepared in cooperation with the U.S. Department of Energy.

Previous Studies

An extensive body of work exists describing the geohydrology of the area including and surrounding the WIPP site. A complete review of this work is beyond the scope of this report. The following sections present an overview of the geohydrology of the Rustler and Salado Formations in the area of the WIPP site.

Geohydrology

The Salado and Rustler Formations and the Dewey Lake Redbeds form the uppermost geologic units of Permian age in the WIPP site area (fig. 2). The following descriptions of the geology and hydrology of these units are taken from Mercer (1983) unless otherwise noted.

The Salado Formation consists principally of thick seams of halite interbedded with anhydrite, polyhalite, and glauberite. The Salado Formation is about 1,700 to 2,000 feet thick in the WIPP site area. Jones (1975) recognized three divisions within the Salado Formation including the lower member, the McNutt Potash Zone, and the upper member. The Rustler Formation is about 300 to 400 feet thick in the WIPP site area and consists mostly of dolomite and evaporite minerals with minor amounts of silt and clay. Vine (1963) described five divisions within the Rustler Formation including the unnamed part, the Culebra Dolomite Member, the Tamarisk Member, the Magenta Dolomite Member, and the Forty-niner Member. The unnamed part was subsequently named the Los Medaños Member (Powers and Holt, 1999). A residuum layer of variable thickness, locally present at the contact between the Rustler and Salado Formations, is thought to consist of remnant material remaining following dissolution of evaporite minerals. The residuum layer is considered to be a part of the Rustler Formation. The Dewey Lake Redbeds are about 345 to 541 feet thick in the WIPP site area and consist mainly of siltstone and claystone layers with thin lenses of sandstone.

2 Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico

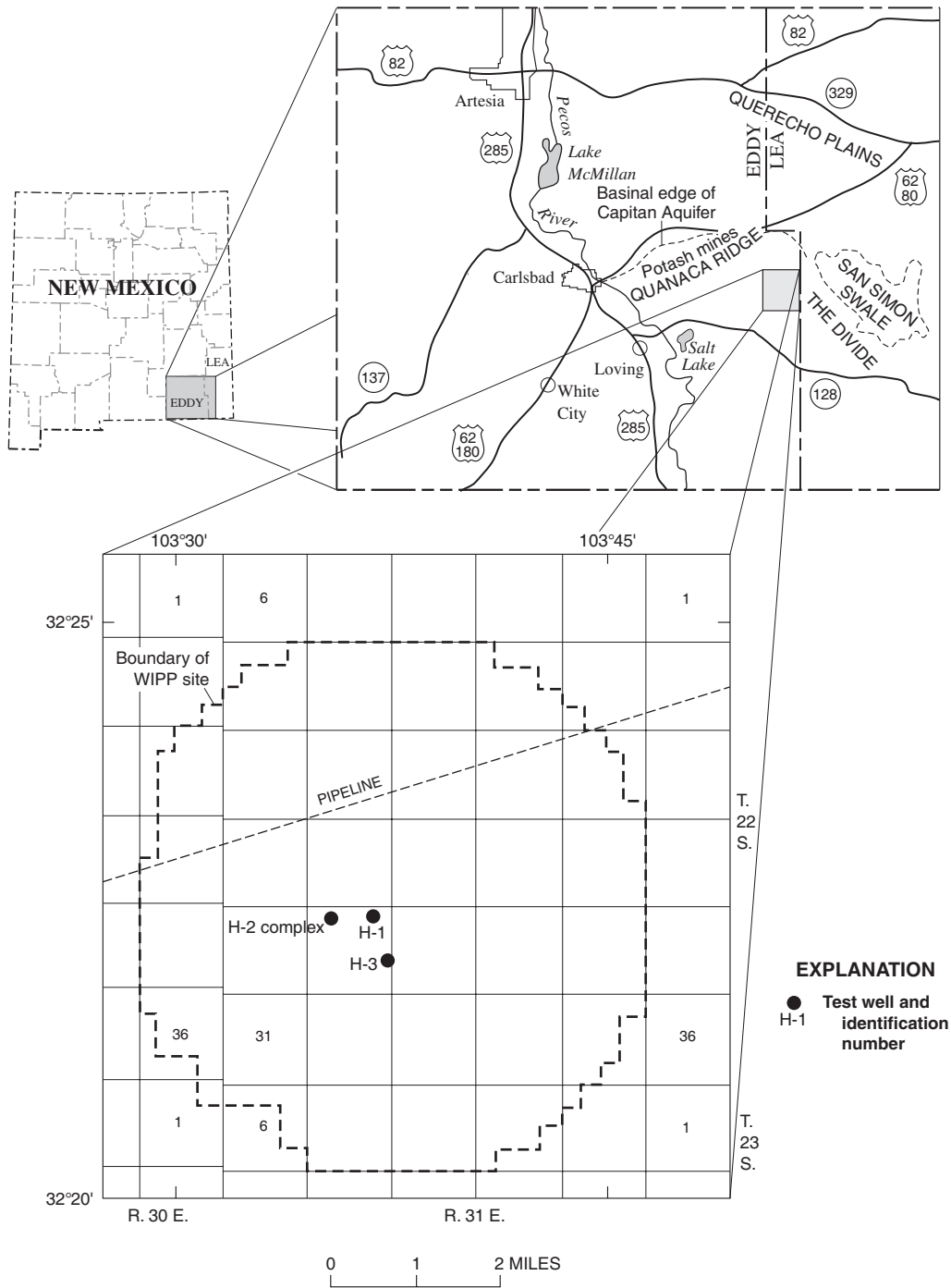


Figure 1. Location map of the Waste Isolation Pilot Plant (WIPP) area and the locations of wells H-1, H-2 complex, and H-3 (modified from Mercer and Orr (1979)).

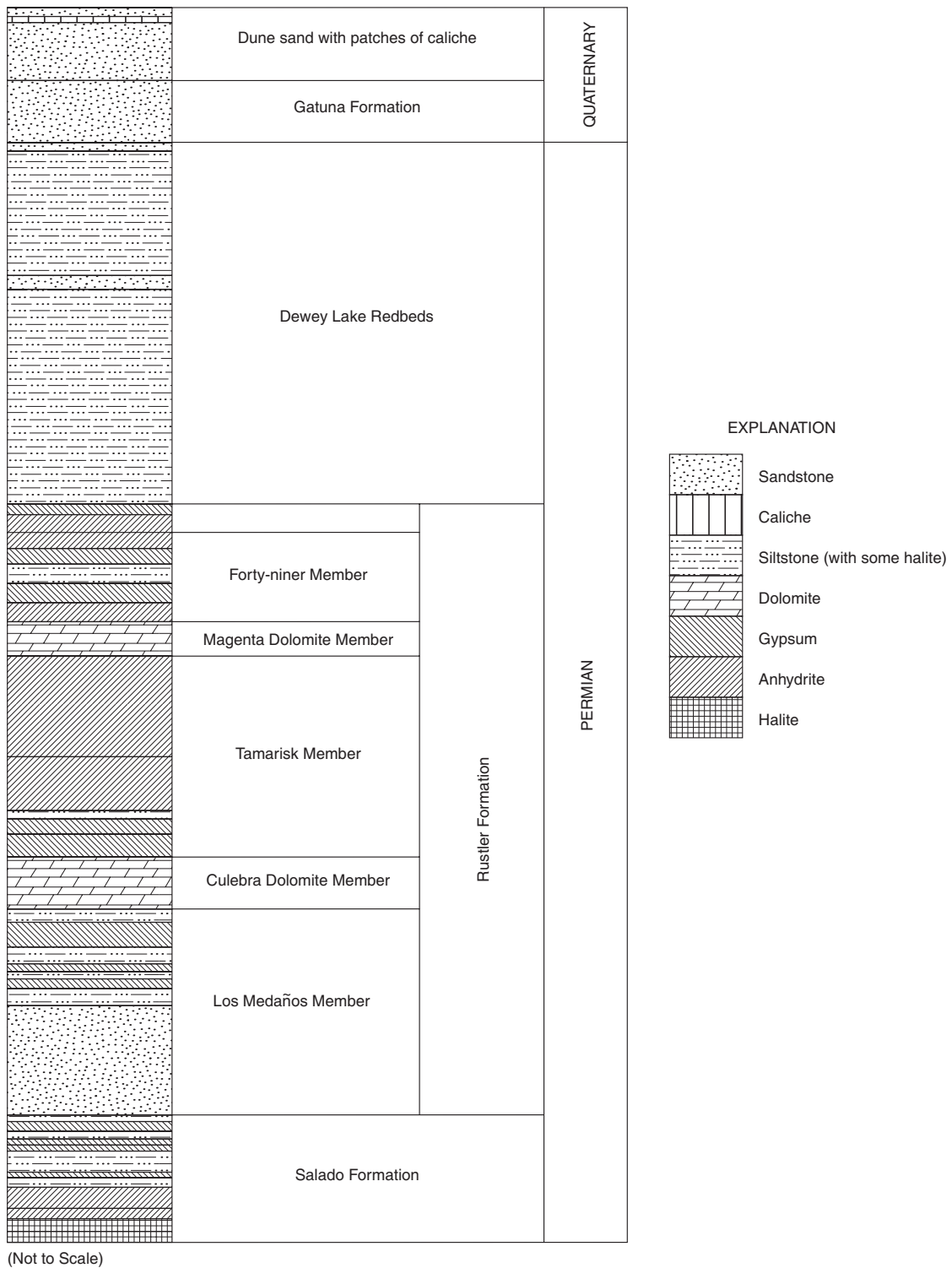


Figure 2. Stratigraphic column representative of the Waste Isolation Pilot Plant area showing geologic units of Permian and Quaternary age (modified from Vine, 1963, and Powers and Holt, 1999).

The siltstone and claystone layers are frequently intruded by horizontal or crosscutting veins of selenite.

The Salado Formation in the WIPP site area does not contain “apparently-circulating” water (Mercer, 1983). However, small pockets of brine have been encountered during drilling. The Rustler Formation contains the principal water-bearing intervals within the uppermost geologic units of Permian age in the WIPP site area. These intervals include the Magenta Dolomite Member, the Culebra Dolomite Member, and the Rustler-Salado contact zone. The Dewey Lake Redbeds typically have small permeability and do not yield water to wells. However, the Dewey Lake Redbeds contain a water-table aquifer along the southern margin of, and south of, the WIPP site (Rick Beauheim, 2006, Sandia National Laboratories, written commun.).

Water typically occurs in thin beds of silt or silty dolomite within the Magenta Dolomite Member. Ground water exists under confined conditions except in areas of intense fracturing or alteration. The apparent direction of ground-water flow, based on contours of ground-water levels, is generally westward across the WIPP site.

Water is present in fractures under confined conditions within the Culebra Dolomite Member. Hydraulic properties are highly variable and are controlled by the size and number of fractures present. The apparent direction of ground-water flow, based on contours of ground-water levels, is generally southward across the WIPP site. However, subsurface fractures can impart a large degree of anisotropy that can substantially affect the local direction of ground-water flow.

Water moves primarily along bedding planes within a low-permeability area of the Rustler-Salado contact zone beneath the WIPP site. The apparent direction of ground-water flow, based on contours of ground-water levels, is generally southward across the WIPP site.

Aquifer Tests

A series of aquifer tests, including slug tests, shut-in tests, and pressure-pulse tests, was performed by the USGS in wells H-1, H-2 complex, and H-3 between February 1979 and July 1980. Mercer and Orr (1979) give details on the construction of wells H-1, H-2 complex, and H-3. A pressure transducer was typically used to measure pressures or apparent water levels (pressure expressed as equivalent feet of water) during all the above types of tests. Some late-stage aquifer-test water levels were measured using a steel tape. Dennehy and Davis (1981) and Basler (1983) discuss details of slug, shut-in, and pressure-pulse test procedures and interpretation.

In slug tests, a known volume of water is rapidly injected or withdrawn from a well followed by monitoring of apparent water levels in the well as they return toward a pre-test static level. Bailing, swabbing, and flow tests are synonymous terms for slug test. Slug tests were interpreted in terms of the change in the ratio of pressures or apparent water levels

observed during the test (H) to the pressure or apparent water level observed at the start of the test (H_0) as a function of time. Apparent values of H and H_0 were adjusted to a reference datum equal to the pressure or apparent water level associated with the elevation component of head in the tested formation prior to calculating the ratio H/H_0 .

In shut-in tests, water is typically bailed from the well to a desired depth and the target zone for testing is sealed off using inflatable packers. A length of drill stem tubing is inserted through the packer into the zone to be tested. This tubing is filled to near land surface with stored water previously bailed from the well to be tested. The shut-in test is started by removing a plug at the bottom of the drill stem tubing followed by monitoring of pressure or apparent water level in the tubing as it decreases toward a pre-test static level. Alternatively, water levels could be lowered in a well by bailing followed by packer and drill stem tubing installation. The test is started by removal of the plug at the bottom of the drill stem tube followed by monitoring of pressure or apparent water level in the drill stem tubing as it increases toward a pre-test value. Shut-in tests were interpreted in terms of the change in the ratio of time elapsed since the test interval was stressed (t) to the time elapsed since the shut-in test started (t') as a function of apparent water levels.

Pressure-pulse tests are configured in the same manner as shut-in tests with the exception that no plug is present in the drill-stem tubing. Water added to the drill stem tubing is pressurized using a piston pump. The drill stem tubing is closed off using a ball valve when the desired pressure is reached and the subsequent decline in pressure or apparent water level is measured. Pressure-pulse tests were interpreted in the same manner as were slug tests with the exception that no datum adjustment was applied to obtain values of H and H_0 .

Tables 1-31 (at back of report) contain data on aquifer tests performed by the USGS on wells H-1, H-2 complex, and H-3. All data were transcribed from USGS aquifer-test archive files.

Summary

A series of aquifer tests were performed by the U.S. Geological Survey on geologic units of Permian age at the WIPP site between February 1979 and July 1980 in wells H-1, H-2 complex, and H-3. Tests performed included slug tests, shut-in tests, and pressure-pulse tests. The tested geologic units included the Magenta Dolomite Member of the Rustler Formation, the Culebra Dolomite Member of the Rustler Formation, and the contact zone between the Rustler and Salado Formations. Selected information on the tested formations, test dates, pre-test static water levels, test configurations, and raw data collected during these tests are tabulated in this report.

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Tables 1–31

Table 1. Data from bailing test 2 performed on the Magenta Dolomite Member in well H–1.

Test start date:	03/23/1979	Test end data:	03/23/1979
Hole depth:	831 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0–831 feet	Bailer capacity:	9.75 gallons
Interval tested:	562–590 feet	Tank volume:	287.9 gallons per foot
Inner diameter of tested interval:	6.366 inches		

Static water level, on March 13, 1979, was 246.97 feet below land surface.

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in storage tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed time since bailing stopped, in minutes (t')	t/t'	Remarks
03/23/1979	9:17	1	—	—	0	—	—	Density = 1.030. Sampled off top.
03/23/1979	9:19	2	—	—	2	—	—	Density = 1.184. Sampled off bottom.
03/23/1979	9:21	3	—	—	4	—	—	—
03/23/1979	9:22	4	—	—	5	—	—	—
03/23/1979	9:23	5	0.90	—	6	—	—	Authors note: Reported value of depth of
03/23/1979	9:25	6	—	—	8	—	—	water in storage tank is likely erroneous.
03/23/1979	9:26	7	—	—	9	—	—	—
03/23/1979	9:29	8	—	—	12	—	—	—
03/23/1979	9:31	9	—	—	14	—	—	—
03/23/1979	9:32	10	—	—	15	—	—	—
03/23/1979	9:34	11	0.29	—	17	—	—	—
03/23/1979	9:35	12	—	—	18	—	—	—
03/23/1979	—	13	—	—	—	—	—	—
03/23/1979	9:38	14	—	—	21	—	—	—
03/23/1979	9:39	15	0.44	—	22	—	—	—
03/23/1979	9:40	16	—	—	23	—	—	—
03/23/1979	9:43	17	—	—	26	—	—	—
03/23/1979	9:44	18	—	—	27	—	—	—
03/23/1979	9:46	19	—	—	29	—	—	—
03/23/1979	9:47	20	0.63	—	—	—	—	—
03/23/1979	9:48	21	—	—	—	—	—	—
03/23/1979	9:49	22	—	—	—	—	—	—
03/23/1979	9:50	23	—	—	—	—	—	—
03/23/1979	9:52	24	—	—	—	—	—	—

10 Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico

Table 1. Data from bailing test 2 performed on the Magenta Dolomite Member in well H-1.—Continued

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in storage tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed time since bailing stopped, in minutes (t')	t/t'	Remarks
03/23/1979	9:53	25	0.81	—	—	—	—	—
03/23/1979	9:55	26	—	—	—	—	—	—
03/23/1979	9:56	27	—	—	—	—	—	—
03/23/1979	9:58	28	—	—	—	—	—	—
03/23/1979	9:59	29	—	—	—	—	—	—
03/23/1979	10:01	30	0.97	—	—	—	—	—
03/23/1979	10:02	31	—	—	—	—	—	—
03/23/1979	10:03	32	—	—	—	—	—	—
03/23/1979	10:05	33	—	—	—	—	—	—
03/23/1979	10:06	34	—	—	—	—	—	—
03/23/1979	10:08	35	1.11	—	—	—	—	—
03/23/1979	10:09	36	—	—	—	—	—	—
03/23/1979	10:11	37	—	—	—	—	—	—
03/23/1979	10:12	38	—	—	—	—	—	—
03/23/1979	10:14	39	—	—	—	—	—	—
03/23/1979	10:15	40	1.34	—	—	—	—	—
03/23/1979	10:17	41	—	—	—	—	—	—
03/23/1979	10:18	42	—	—	—	—	—	—
03/23/1979	10:20	43	—	—	—	—	—	—
03/23/1979	10:21	44	—	—	—	—	—	—
03/23/1979	10:23	45	1.52	—	—	—	—	—
03/23/1979	10:25	46	—	—	—	—	—	—
03/23/1979	10:27	47	—	—	—	—	—	—
03/23/1979	10:28	48	—	—	—	—	—	—
03/23/1979	10:29	49	—	—	—	—	—	—
03/23/1979	10:31	50	1.70	—	—	—	—	—
03/23/1979	10:32	51	—	—	—	—	—	—
03/23/1979	10:33	52	—	—	—	—	—	—
03/23/1979	10:35	53	—	—	—	—	—	—
03/23/1979	10:36	54	—	—	—	—	—	—
03/23/1979	10:38	55	1.68	—	—	—	—	55 gallons put into separate barrel.
03/23/1979	10:39	56	—	—	—	—	—	—
03/23/1979	10:41	57	—	—	—	—	—	—
03/23/1979	10:42	58	—	—	—	—	—	—
03/23/1979	10:43	59	—	—	—	—	—	—
03/23/1979	10:46	60	1.90	—	—	—	—	—

Table 1. Data from bailing test 2 performed on the Magenta Dolomite Member in well H–1.—Continued

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in storage tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed time since bailing stopped, in minutes (t')	t/t'	Remarks
03/23/1979	—	—	—	6.8	94.75	4.75	19.9	Set transducer at 420 feet.
03/23/1979	—	—	—	6.8	95.00	5.00	19.0	—
03/23/1979	—	—	—	6.8	95.50	5.50	17.4	—
03/23/1979	—	—	—	6.9	96.00	6.00	16.0	—
03/23/1979	—	—	—	6.9	96.50	6.50	14.8	—
03/23/1979	—	—	—	7.0	97.00	7.00	13.9	—
03/23/1979	—	—	—	7.1	98.00	8.00	12.3	—
03/23/1979	—	—	—	7.2	100.00	10.00	10.0	—
03/23/1979	—	—	—	7.4	102.00	12.00	8.50	—
03/23/1979	—	—	—	7.7	105.00	15.00	7.00	—
03/23/1979	—	—	—	7.8	107.00	17.00	6.29	—
03/23/1979	—	—	—	8.1	110.00	20.00	5.50	—
03/23/1979	—	—	—	8.5	115.00	25.00	4.60	—
03/23/1979	—	—	—	8.9	120.00	30.00	4.00	—
03/23/1979	—	—	—	9.3	125.00	35.00	3.57	—
03/23/1979	—	—	—	9.8	130.00	40.00	3.25	—
03/23/1979	—	—	—	10.2	135.00	45.00	3.00	—
03/23/1979	—	—	—	10.5	140.00	50.00	2.80	—
03/23/1979	—	—	—	10.9	145.00	55.00	2.64	—
03/23/1979	—	—	—	11.3	150.00	60.00	2.50	—
03/23/1979	—	—	—	11.6	155.00	65.00	2.38	—
03/23/1979	—	—	—	12.2	160.00	70.00	2.29	—
03/23/1979	—	—	—	12.7	170.00	80.00	2.13	—
03/23/1979	—	—	—	13.4	180.00	90.00	2.00	—
03/23/1979	—	—	—	14.1	190.00	100.00	1.90	—
03/23/1979	—	—	—	14.7	200.00	110.00	1.82	—
03/23/1979	—	—	—	15.3	210.00	120.00	1.75	—
—	—	—	—	—	—	—	—	Prepare to run packer for shut in #1.

12 Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico

Table 2. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-1.

Test start date:	03/23/1979	Test end date:	03/27/1979
Hole depth:	831 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0–831 feet	Packer type:	Production injection with feed through
Interval tested:	562–590 feet	Packer diameter:	5.625 inches
Inner-Diameter of tested interval:	6.336 inches	Tubing diameter:	—
Packer set depth:	554.41 feet	Transducer depth:	—
Shut in after:	Bailing	Pre-test inflow rate:	177.41 cubic feet per day

Static water level, on March 13, 1979, was 246.97 feet below land surface.

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/23/1979	14:18	172.7	—	—	—	25.15	Pretest.
03/23/1979	14:30	173.4	—	—	—	25.15	Pretest.
03/23/1979	15:30	178.6	393	51	7.71	25.10	—
03/23/1979	16:00	181.2	423	81	5.22	25.08	—
03/23/1979	16:30	183.7	453	111	4.08	25.08	—
03/23/1979	17:00	186.0	483	141	3.43	25.07	—
03/23/1979	17:30	188.2	513	171	3.00	25.06	—
03/23/1979	18:00	190.5	543	201	2.70	25.05	—
03/23/1979	18:30	192.8	573	231	2.48	25.06	—
03/23/1979	19:00	195.2	603	261	2.31	25.08	—
03/23/1979	19:30	197.2	633	291	2.18	25.10	—
03/23/1979	20:00	199.1	663	321	2.07	25.11	—
03/23/1979	20:30	200.9	693	351	1.97	25.13	—
03/23/1979	21:00	202.7	723	381	1.90	25.14	—
03/23/1979	21:30	204.6	753	411	1.83	25.15	—
03/23/1979	22:00	206.4	783	441	1.78	25.15	—
03/23/1979	22:30	208.0	813	471	1.73	25.16	—
03/23/1979	23:00	209.8	843	501	1.68	25.17	—
03/23/1979	23:30	211.5	873	531	1.64	25.18	—

Table 2. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H–1.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bail-ing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/24/1979	0:00	213.1	903	561	1.61	25.18	—
03/24/1979	0:30	214.8	933	591	1.58	25.19	—
03/24/1979	1:00	216.4	963	621	1.55	25.20	—
03/24/1979	1:30	217.9	993	651	1.53	25.21	—
03/24/1979	2:00	219.4	1,023	681	1.50	25.21	—
03/24/1979	2:30	220.7	1,053	711	1.48	25.21	—
03/24/1979	3:00	222.2	1,083	741	1.46	25.22	—
03/24/1979	3:30	223.5	1,113	771	1.44	25.24	—
03/24/1979	4:00	224.8	1,143	801	1.43	25.25	—
03/24/1979	4:30	226.2	1,173	831	1.41	25.28	—
03/24/1979	5:00	227.5	1,203	861	1.40	25.29	—
03/24/1979	5:30	228.7	—	—	—	26.30	—
03/24/1979	6:00	229.9	1,263	921	1.37	25.32	—
03/24/1979	6:30	231.1	—	—	—	25.34	—
03/24/1979	7:00	231.8	1,323	981	1.35	25.35	—
03/24/1979	7:30	232.6	—	—	—	25.35	—
03/24/1979	8:00	233.6	1,383	1,041	1.33	25.35	—
03/24/1979	8:30	234.1	—	—	—	25.42	—
03/24/1979	9:00	235.7	—	—	1.31	25.43	—
03/24/1979	9:30	236.3	—	—	—	25.41	—
03/24/1979	10:00	237.3	—	—	1.29	25.39	—
03/24/1979	10:30	238.3	—	—	—	25.37	—
03/24/1979	11:00	239.2	—	—	1.28	25.35	—
03/24/1979	11:30	240.1	—	—	—	25.33	—
03/24/1979	12:00	241.1	—	—	1.27	25.32	—
03/24/1979	12:10	241.1	—	—	—	25.32	—
03/24/1979	12:30	242.1	—	—	—	25.32	—
03/24/1979	13:00	243.0	—	—	1.26	25.30	—
03/24/1979	13:30	244.1	—	—	—	25.29	—
03/24/1979	14:00	244.8	—	—	1.24	25.24	—
03/24/1979	14:30	245.7	—	—	—	25.23	—
03/24/1979	15:00	246.6	—	—	1.23	25.20	—
03/24/1979	15:30	247.6	—	—	—	25.18	—
03/24/1979	16:00	248.6	—	—	1.22	25.18	—
03/24/1979	16:30	249.5	—	—	—	25.17	—
03/24/1979	17:00	250.5	1,923	1,581	1.22	25.17	—

14 **Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico**

Table 2. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bail-ing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/24/1979	17:30	251.5	—	—	—	25.16	—
03/24/1979	18:00	252.4	—	—	1.21	25.17	—
03/24/1979	18:30	253.4	—	—	—	25.17	—
03/24/1979	19:00	254.2	—	—	1.20	25.17	—
03/24/1979	19:30	255.1	—	—	—	25.18	—
03/24/1979	20:00	255.9	—	—	1.19	25.18	—
03/24/1979	20:30	256.7	—	—	—	25.19	—
03/24/1979	21:00	257.2	—	—	1.19	25.20	—
03/24/1979	21:30	258.1	—	—	—	25.21	—
03/24/1979	22:00	259.1	—	—	1.18	25.22	—
03/24/1979	22:30	259.9	—	—	—	25.22	—
03/24/1979	23:00	260.8	—	—	1.18	25.22	—
03/24/1979	23:30	261.5	—	—	—	25.22	—
03/25/1979	0:00	262.3	—	—	1.17	25.22	—
03/25/1979	1:00	263.6	—	—	1.17	25.22	—
03/25/1979	2:00	264.8	2,463	2,121	1.16	25.21	—
03/25/1979	3:00	266.0	—	—	—	25.20	—
03/25/1979	4:00	267.2	—	—	1.15	25.19	—
03/25/1979	5:00	268.2	—	—	—	25.20	—
03/25/1979	6:00	269.1	—	—	1.14	25.20	—
03/25/1979	7:00	269.1	—	—	—	25.20	—
03/25/1979	8:00	268.8	—	—	1.14	25.18	—
03/25/1979	9:00	268.9	—	—	—	25.14	—
03/25/1979	10:00	270.3	2,943	2,601	1.13	25.15	—
03/25/1979	11:00	270.8	—	—	1.13	25.06	—
03/25/1979	13:00	271.9	—	—	1.12	24.98	—
03/25/1979	14:00	272.9	—	—	—	24.95	—
03/25/1979	15:00	273.8	3,243	2,901	1.12	24.95	—
03/25/1979	17:00	275.8	—	—	1.11	24.97	—
03/25/1979	18:00	276.9	—	3,081	1.11	24.99	—
03/25/1979	19:00	277.9	—	—	—	25.02	—
03/25/1979	20:00	278.7	—	—	—	25.05	—
03/25/1979	21:00	279.5	—	—	—	25.07	—
03/25/1979	22:00	280.4	—	—	—	25.08	—
03/25/1979	23:00	281.1	—	—	—	25.08	—
03/26/1979	0:00	281.9	—	3,441	1.10	25.10	—

Table 2. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/26/1979	1:00	282.8	—	—	—	25.10	—
03/26/1979	2:00	283.5	—	—	—	25.12	—
03/26/1979	3:00	284.2	—	—	—	25.14	—
03/26/1979	4:00	284.8	—	—	—	25.16	—
03/26/1979	5:00	285.5	—	—	—	25.19	—
03/26/1979	6:00	285.9	—	3,801	1.09	25.23	—
03/26/1979	7:00	285.0	—	—	—	25.23	—
03/26/1979	11:00	284.5	—	—	—	—	—
03/26/1979	12:00	285.0	—	4,161	1.08	—	—
03/26/1979	13:00	285.3	—	—	—	—	—
03/26/1979	14:00	285.8	—	—	—	—	—
03/26/1979	15:00	286.0	—	—	—	—	—
03/26/1979	16:00	286.8	4,803	4,401	1.08	—	—
03/27/1979	7:45	292.8	5,698	5,346	1.07	—	—
03/27/1979	9:00	294.9	5,773	5,421	1.06	—	—
03/27/1979	9:40	292.8	5,813	5,461	1.06	—	—

Table 3. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H-1.

Test start date:	03/30/1979	Test end date:	03/30/1979
Hole depth:	831 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0–831 feet	Packer type:	Production injection with feed through
Interval tested:	675–703 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	7 inches	Tubing diameter:	—
Packer set depth:	666.66 feet	Transducer depth:	670.16 feet
Shut in after:	Bailing	Pre-test inflow rate:	29.89 cubic feet per day

Static water level, on March 13, 1979, was 382.34 feet below land surface.

16 Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico

Table 3. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H-1.—Continued

Date	Clock time, HH:MM:SS	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes	t/t'	Barometric pressure, in inches of mercury	Remarks
03/30/1979	13:45:00	237.8	—	—	—	—	—	Pretest. No water in tubing.
03/30/1979	14:07:00	240.0	—	—	—	—	—	Pretest. Tubing full of water.
03/30/1979	14:07:18	—	220.00	0"	0.00	—	25.14	—
03/30/1979	—	287.2	—	5"	—	2,641.00	25.14	—
03/30/1979	—	300.6	—	10"	—	1,321.00	25.14	—
03/30/1979	—	347.7	—	15"	—	881.00	25.14	—
03/30/1979	—	335.5	—	20"	—	661.00	25.14	—
03/30/1979	—	323.5	—	25"	—	529.00	25.14	—
03/30/1979	—	315.6	—	30"	—	441.00	25.14	—
03/30/1979	—	305.4	—	35"	—	378.00	25.14	—
03/30/1979	—	298.6	—	40"	—	331.00	25.14	—
03/30/1979	—	293.6	—	45"	—	294.00	25.14	—
03/30/1979	—	289.4	—	50"	—	265.00	25.14	—
03/30/1979	—	286.1	—	55"	—	241.00	25.14	—
03/30/1979	—	282.1	221.00	1'	1.00	221.00	25.14	—
03/30/1979	—	279.1	—	1' 10"	—	190.00	25.14	—
03/30/1979	—	277.1	—	1' 20"	—	166.00	25.14	—
03/30/1979	—	275.7	—	1' 30"	—	148.00	25.14	—
03/30/1979	—	274.6	—	1' 40"	—	133.00	25.14	—
03/30/1979	—	273.9	—	1' 50"	—	121.00	25.14	—
03/30/1979	—	273.4	222.00	2'	2.00	111.00	25.14	—
03/30/1979	—	273.0	—	2' 15"	—	98.80	25.14	—
03/30/1979	—	272.7	—	2' 30"	—	89.00	25.14	—
03/30/1979	—	272.6	222.75	2' 45"	2.75	81.00	25.14	—
03/30/1979	—	272.5	—	3'	—	74.30	25.14	—
03/30/1979	—	272.2	—	3' 30"	—	63.90	25.14	—
03/30/1979	—	273.2	—	4'	—	56.00	25.14	—
03/30/1979	—	272.9	—	4' 30"	—	49.90	25.14	—
03/30/1979	—	272.9	—	5'	—	45.00	25.14	—
03/30/1979	—	272.9	—	5' 30"	—	41.00	25.14	—
03/30/1979	—	273.0	226.00	6'	6.00	37.70	25.14	—
03/30/1979	—	273.1	—	7'	—	32.40	25.13	—
03/30/1979	—	273.3	—	8'	—	28.50	25.13	—
03/30/1979	14:17:18	273.5	230.00	10'	10.00	23.00	25.13	—
03/30/1979	—	273.7	—	12'	—	19.30	25.13	—

Table 3. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H–1.—Continued

Date	Clock time, HH:MM:SS	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes	t/t'	Barometric pressure, in inches of mercury	Remarks
03/30/1979	—	273.9	—	15'	—	15.70	25.13	—
03/30/1979	—	274.1	—	17'	—	13.90	25.13	—
03/30/1979	—	274.4	—	20'	—	12.00	25.13	—
03/30/1979	—	274.6	—	25'	—	9.80	25.12	—
03/30/1979	—	274.9	—	30'	—	8.33	25.12	—
03/30/1979	—	275.1	—	35'	—	7.29	25.12	—
03/30/1979	—	275.3	—	40'	—	6.50	25.12	—
03/30/1979	—	275.5	—	45'	—	5.89	25.12	—
03/30/1979	—	275.6	—	50'	—	5.40	25.12	—
03/30/1979	—	275.8	—	55'	—	5.00	—	—
03/30/1979	—	275.9	—	60'	—	4.67	—	—
03/30/1979	—	276.1	—	65'	—	4.38	—	—
03/30/1979	—	276.3	295.00	75'	75.00	3.93	25.11	—
03/30/1979	—	—	—	80''	—	3.75	—	—
03/30/1979	—	—	—	90'	—	3.44	—	—
03/30/1979	—	—	—	100'	—	3.20	—	—
03/30/1979	—	—	—	110'	—	3.00	—	—
03/30/1979	—	—	—	120'	—	2.83	—	—
03/30/1979	—	—	—	135'	—	2.63	—	—
03/30/1979	—	—	—	150'	—	2.47	—	—
03/30/1979	—	—	400.00	180'	180.00	2.22	—	—

18 Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico

Table 4. Data from slug test 1 performed on the Culebra Dolomite Member in well H-1.

Test start date:	03/30/1979	Test end date:	03/30/1979
Hole depth:	—	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	—	Packer type:	Production injection with feed through
Interval tested:	—	Packer diameter:	—
Diameter of tested interval:	6.276 inches	Tubing diameter:	1.995 inches
Packer set depth:	669 feet	Transducer depth:	670.16 feet

Static water level, on March 13, 1979, was 382.34 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the slug test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Elapsed time, in hours	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/30/1979	—	0"	—	—	—	—	25.11	H ₀ = 401 feet, H = measured pressure, in feet of water minus 279 feet.
03/30/1979	—	5"	—	724.6	—	—	—	—
03/30/1979	—	10"	—	674.3	10	0.986	—	—
03/30/1979	—	15"	—	678.6	15	0.997	—	Pre-test measured pressure of water was equal to 276.5 feet of water at 15:30 on 03/30/1979.
03/30/1979	—	20"	—	677.0	20	0.993	—	—
03/30/1979	—	25"	—	676.3	25	0.991	—	—
03/30/1979	—	30"	—	675.5	30	0.989	—	—
03/30/1979	—	35"	—	674.7	35	0.987	—	—
03/30/1979	—	40"	—	674.0	40	0.985	—	—
03/30/1979	—	45"	—	673.5	45	0.984	—	—
03/30/1979	—	50"	—	672.9	50	0.982	—	—
03/30/1979	—	55"	—	672.4	55	0.981	—	—
03/30/1979	—	60"	—	671.5	60	0.979	—	—
03/30/1979	—	70"	—	670.4	70	0.976	—	—
03/30/1979	—	80"	—	669.3	80	0.973	—	—
03/30/1979	—	90"	—	668.4	90	0.971	—	—
03/30/1979	—	100"	—	667.4	100	0.969	—	—
03/30/1979	—	110"	—	666.3	110	0.966	—	—

Table 4. Data from slug test 1 performed on the Culebra Dolomite Member in well H-1.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds ('')	Elapsed time, in hours	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Baromet- ric pres- sure, in inches of mercury	Remarks
03/30/1979	—	120"	—	665.5	120	0.964	—	—
03/30/1979	—	130"	—	664.5	130	0.961	—	—
03/30/1979	—	140"	—	663.6	140	0.959	—	—
03/30/1979	—	150"	—	662.7	150	0.957	—	—
03/30/1979	—	160"	—	661.8	160	0.955	—	—
03/30/1979	—	170"	—	661.0	170	0.953	—	—
03/30/1979	—	3'	—	660.1	180	0.950	—	—
03/30/1979	—	3' 30"	—	657.7	210	0.944	—	—
03/30/1979	—	4'	—	655.2	240	0.938	—	—
03/30/1979	—	4' 30"	—	652.9	270	0.932	—	—
03/30/1979	15:37:23	5'	—	650.8	300	0.927	—	—
03/30/1979	—	6'	—	646.7	360	0.917	—	—
03/30/1979	—	7'	—	643.3	420	0.908	—	—
03/30/1979	—	8'	—	639.8	480	0.900	—	—
03/30/1979	—	9'	—	636.5	540	0.892	—	—
03/30/1979	—	10'	—	633.3	600	0.884	—	—
03/30/1979	—	12'	—	627.4	720	0.869	—	—
03/30/1979	—	15'	—	619.1	900	0.848	—	—
03/30/1979	—	17'	—	614.1	1,020	0.836	—	—
03/30/1979	—	20'	—	607.4	1,200	0.819	—	—
03/30/1979	—	25'	—	597.5	1,500	0.794	25.10	—
03/30/1979	—	30'	—	588.4	1,800	0.772	25.11	—
03/30/1979	—	35'	—	580.3	2,100	0.751	25.11	—
03/30/1979	—	40'	—	573.0	2,400	0.733	25.11	—
03/30/1979	—	45'	—	565.8	2,700	0.715	25.11	—
03/30/1979	—	50'	—	559.3	3,000	0.699	25.11	—
03/30/1979	—	55'	—	553.4	3,300	0.684	25.11	—
03/30/1979	—	60'	—	547.9	3,600	0.671	25.11	—
03/30/1979	—	70'	—	538.3	4,200	0.647	25.11	—
03/30/1979	—	80'	—	529.6	4,800	0.625	25.11	—
03/30/1979	—	90'	—	523.0	5,400	0.608	25.11	—
03/30/1979	—	100'	—	517.1	6,000	0.594	25.11	—
03/30/1979	—	110'	—	511.3	6,600	0.579	25.10	—
03/30/1979	—	120'	—	506.6	7,200	0.568	25.09	—
03/30/1979	—	130'	—	502.1	7,800	0.556	25.09	—
03/30/1979	—	140'	—	498.5	8,400	0.547	25.09	—
03/30/1979	—	150'	—	495.4	9,000	0.540	25.08	—

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Table 4. Data from slug test 1 performed on the Culebra Dolomite Member in well H-1.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Elapsed time, in hours	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/30/1979	—	180'	3.0	486.7	10,800	0.518	25.09	—
03/30/1979	—	210'	—	478.8	12,600	0.498	25.11	—
03/30/1979	—	240'	4.0	470.8	14,400	0.478	25.13	—
03/30/1979	—	270'	—	463.0	16,200	0.459	25.15	—
03/30/1979	—	300'	5.0	455.7	18,000	0.441	25.16	—
03/30/1979	—	—	5.5	449.3	19,800	0.425	25.16	—
03/30/1979	—	—	6.0	443.8	21,600	0.411	25.18	—
03/30/1979	—	—	6.5	438.8	23,400	0.399	25.19	—
03/30/1979	—	—	7.0	433.8	25,200	0.386	25.20	—
03/30/1979	—	—	7.5	429.2	27,000	0.375	25.20	—
03/30/1979	—	—	8.0	425.1	28,800	0.364	25.20	—
03/31/1979	—	—	8.5	420.4	30,600	0.353	25.20	—
03/31/1979	—	—	9.0	416.7	32,400	0.343	25.20	—
03/31/1979	—	—	9.5	413.0	34,200	0.334	25.21	—
03/31/1979	—	—	10.0	409.5	36,000	0.325	25.21	—
03/31/1979	—	—	11.0	403.9	39,600	0.311	25.20	—
03/31/1979	—	—	12.0	396.2	43,200	0.292	25.19	—
03/31/1979	—	—	13.0	390.0	46,800	0.277	25.19	—
03/31/1979	—	—	14.0	384.0	50,400	0.262	25.19	—
03/31/1979	—	—	15.0	378.0	54,000	0.249	25.19	—
03/31/1979	8:18:00	—	16.0	371.7	57,600	0.231	25.17	—
03/31/1979	9:30:00	—	—	362.8	61,920	0.209	25.14	—
03/31/1979	12:00:00	—	—	352.3	70,920	0.183	25.06	—

Table 5. Data from pressure-pulse test 1 performed on the Culebra Dolomite Member in well H-1.

Test start date:	03/30/1979	Test end date:	03/30/1979
Hole depth:	—	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	—	Packer type:	Production injection with feed through
Interval tested:	—	Packer diameter:	—
Diameter of tested interval:	6.276 inches	Tubing diameter:	1.995 inches
Packer set depth:	669 feet	Transducer depth:	—
Volume of water within the pressurized interval:	26.0 cubic feet		

Static water level, on March 13, 1979, was 382.34 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the pressure pulse test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Date	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/ H_0	Remarks
03/30/1979	347.7	0	1.000	Assume pre-test static fluid level at 279 feet.
03/30/1979	335.5	5	0.822	—
03/30/1979	323.5	10	0.648	H_0 = measured pressure, in feet of water minus 279 feet; H = 68.7 feet.
03/30/1979	315.6	15	0.533	Authors note: Equations describing values of H and H_0 as transcribed from the original
03/30/1979	305.4	20	0.384	Aquifer test documentation are apparently reversed.
03/30/1979	298.6	25	0.285	—
03/30/1979	293.2	30	0.207	—
03/30/1979	289.4	35	0.151	—
03/30/1979	286.1	40	0.103	—
03/30/1979	282.1	45	0.045	—
03/30/1979	279.1	55	0.001	—

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Table 6. Data from shut-in test 2 performed on the Culebra Dolomite Member in well H-1.

Test start date:	03/31/1979	Test end data:	03/31/1979
Hole depth:	831 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0-831 feet	Packer type:	—
Interval tested:	—	Packer diameter:	—
Diameter of tested interval:	—	Tubing diameter:	—
Packer set depth:	—	Transducer depth:	—
Shut in after:	Swabbing	Pre-test inflow rate:	8.25 cubic feet per day

Static water level, on March 13, 1979, was 382.34 feet below land surface.

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since swabbing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/31/1979	14:39	332.7	—	—	—	—	—	Pretest.
03/31/1979	14:46	—	126.0	0"	—	—	—	Placed standing valve in hole for shut-in.
03/31/1979	—	274.5	—	5"	0.08	1513.00	—	—
03/31/1979	—	273.0	—	10"	—	757.00	—	—
03/31/1979	—	272.1	—	15"	—	505.00	—	—
03/31/1979	—	271.5	—	20"	—	379.00	—	—
03/31/1979	—	271.1	—	25"	—	303.00	—	—
03/31/1979	—	270.8	—	30"	—	253.00	—	—
03/31/1979	—	270.5	—	35"	—	217.00	—	—
03/31/1979	—	270.3	—	40"	—	190.00	—	—
03/31/1979	—	270.1	—	45"	—	169.00	—	—
03/31/1979	—	269.9	—	50"	—	152.00	—	—
03/31/1979	—	269.8	—	55"	—	138.00	—	—
03/31/1979	—	269.7	—	60"	—	127.00	—	—
03/31/1979	—	269.5	—	70"	—	109.00	—	—
03/31/1979	—	269.4	—	80"	—	95.50	—	—
03/31/1979	—	269.3	—	90"	—	85.00	—	—
03/31/1979	—	269.3	—	100"	—	76.60	—	—

Table 6. Data from shut-in test 2 performed on the Culebra Dolomite Member in well H–1.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since swabbing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/31/1979	—	269.3	—	120"	—	64.00	—	—
03/31/1979	—	269.4	—	150"	—	51.40	—	—
03/31/1979	—	269.6	—	180"	—	43.00	—	—
03/31/1979	—	269.8	—	210"	—	37.00	—	—
03/31/1979	—	270.0	130.0	240"	4.00	32.50	—	—
03/31/1979	—	270.2	—	270"	—	29.00	—	—
03/31/1979	—	270.4	—	5'	—	26.20	24.98	—
03/31/1979	—	270.5	—	5' 30"	—	23.90	—	—
03/31/1979	—	270.7	—	6'	—	22.00	—	—
03/31/1979	—	270.9	—	7'	—	19.00	—	—
03/31/1979	—	271.0	—	8'	—	16.80	—	—
03/31/1979	—	271.5	—	9'	—	15.00	—	—
03/31/1979	—	271.6	—	10'	—	13.60	—	—
03/31/1979	—	272.0	—	12'	—	11.50	—	—
03/31/1979	—	272.5	—	15'	—	9.40	—	—
03/31/1979	—	272.8	—	17'	—	8.41	—	—
03/31/1979	—	273.2	—	20'	—	7.30	—	—
03/31/1979	—	273.8	—	25'	—	6.04	—	—
03/31/1979	—	274.2	—	30'	—	5.20	—	—
03/31/1979	—	274.6	—	35'	—	4.60	24.97	—
03/31/1979	—	274.9	—	40'	—	4.15	24.96	—
03/31/1979	—	275.6	—	50'	—	3.52	—	—
03/31/1979	—	275.8	—	55'	—	3.29	—	—
03/31/1979	—	276.0	—	60'	—	3.10	—	—
03/31/1979	—	276.5	—	70'	—	2.80	—	—
03/31/1979	—	276.8	—	80'	—	2.57	—	—
03/31/1979	16:16	277.1	216.0	90'	90.00	2.40	24.96	—
03/31/1979	16:21	277.3	220.8	—	94.80	2.33	24.95	—
03/31/1979	16:41	277.9	—	—	—	2.10	24.95	—
03/31/1979	17:02	278.5	—	—	—	1.93	24.96	—
03/31/1979	17:22	278.9	—	—	—	1.81	24.97	—
03/31/1979	17:42	279.3	—	—	—	1.72	24.98	—
03/31/1979	18:03	279.7	—	—	—	1.64	24.99	—
03/31/1979	18:33	280.2	—	—	—	1.56	25.01	—
03/31/1979	19:04	280.4	—	—	—	1.49	25.03	—

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Table 6. Data from shut-in test 2 performed on the Culebra Dolomite Member in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since swabbing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/31/1979	19:35	280.6	—	—	—	1.44	25.05	—
03/31/1979	20:05	280.8	—	—	—	1.40	25.06	—
03/31/1979	21:06	281.1	—	—	—	1.33	25.08	—
03/31/1979	22:08	281.6	—	—	—	1.29	25.10	—
03/31/1979	23:09	281.8	—	—	—	1.25	25.12	—
04/01/1979	0:10	282.0	—	—	—	1.22	25.12	—
04/01/1979	1:11	282.1	—	—	—	1.20	25.14	—
04/01/1979	2:12	282.2	—	—	—	1.18	25.15	—
04/01/1979	3:14	282.3	—	—	—	1.17	25.13	—
04/01/1979	4:15	282.0	934.8	—	808.80	1.16	25.15	—
04/01/1979	5:16	282.0	—	—	—	1.14	25.18	—
04/01/1979	6:17	281.9	—	—	—	1.14	25.18	—
04/01/1979	7:18	281.7	—	—	—	1.13	25.19	—
04/01/1979	8:20	281.3	—	—	—	1.12	25.19	—
04/01/1979	9:21	281.1	—	—	—	1.11	25.15	—
04/01/1979	10:22	280.0	—	—	—	1.11	25.13	—
04/01/1979	11:23	279.9	—	—	—	1.10	25.10	—
04/01/1979	12:00	279.8	1,399.8	—	1,273.80	1.10	25.07	Recorder removed from test.
04/02/1979	9:30	280.3	2,689.8	—	2,563.80	1.05	—	—

Table 7. Data from reverse slug test 1 performed on the Culebra Dolomite Member in well H–1.

Test start date:	03/31/1979	Test end date:	03/31/1979
Hole depth:	831 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0–831 feet	Packer type:	—
Interval tested:	675–703 feet	Packer diameter:	—
Inner diameter of tested interval:	6.336 inches	Tubing diameter:	—
Packer set depth:	—	Transducer depth:	670.16 feet
Tank capacity:	287.9 gallons per foot		

Static water level, on March 13, 1979, was 382.34 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the slug test.

H represents the apparent height of the column of water above the reference datum as a function of time.

Date	Elapsed time in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of swabbing test, in minutes	Time elapsed since end of swabbing test, in minutes	Time elapsed since start of swabbing test, in seconds	H/H_0	Barometric pressure, in inches of mercury	Remarks
	0"	—	5.0	0.0	—	—		0.11 foot of water accumulated in tank after swabbing.
03/31/1979	5"	13.5	—	—	0	1.000	25.04	—
03/31/1979	10"	14.0	—	—	5	0.998	—	—
03/31/1979	15"	14.8	—	—	10	0.995	—	—
03/31/1979	20"	15.6	—	—	15	0.991	—	—
03/31/1979	25"	16.2	—	—	20	0.989	—	—
03/31/1979	30"	16.7	—	—	25	0.987	—	—
03/31/1979	35"	17.7	—	—	30	0.982	—	Density = 1.016.
03/31/1979	40"	18.3	—	—	35	0.980	—	—
03/31/1979	45"	18.6	—	—	40	0.979	—	—
03/31/1979	50"	19.2	—	—	45	0.976	—	—
03/31/1979	55"	19.7	—	—	50	0.974	—	—
03/31/1979	1'	20.0	—	—	55	0.973	—	—
03/31/1979	1' 10"	20.8	—	—	65	0.970	—	—
03/31/1979	1' 20"	21.7	—	—	75	0.966	—	—
03/31/1979	1' 30"	22.6	—	—	85	0.962	—	—

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Table 7. Data from reverse slug test 1 performed on the Culebra Dolomite Member in well H-1.—Continued

Date	Elapsed time in minutes ('') and seconds ('')	Measured pressure, in feet of water	Time elapsed since start of swabbing test, in minutes	Time elapsed since end of swabbing test, in minutes	Time elapsed since start of swabbing test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/31/1979	1' 40''	23.1	—	—	95	0.960	—	—
03/31/1979	1' 50''	24.0	—	—	105	0.956	—	—
03/31/1979	2'	24.6	—	—	115	0.954	—	—
03/31/1979	2' 30''	26.8	—	—	145	0.944	—	—
03/31/1979	3'	29.0	—	—	175	0.935	—	—
03/31/1979	3' 30''	32.0	—	—	205	0.923	—	—
03/31/1979	4'	60.7	—	—	235	0.911	—	—
03/31/1979	4' 30''	63.4	9.5	4.5	265	0.900	—	—
03/31/1979	5'	65.6	—	—	295	0.891	—	—
03/31/1979	6'	69.8	—	—	355	0.873	—	—
03/31/1979	7'	73.0	—	—	415	0.860	—	—
03/31/1979	8'	76.2	—	—	475	0.847	—	—
03/31/1979	9'	79.3	—	—	535	0.834	—	—
03/31/1979	10'	82.3	—	—	595	0.821	—	—
03/31/1979	12'	88.1	—	—	715	0.797	—	—
03/31/1979	15'	95.1	—	—	895	0.768	—	—
03/31/1979	20'	106.2	25.0	20.0	1,195	0.722	—	—
03/31/1979	25'	116.5	—	—	1,495	0.678	—	—
03/31/1979	30'	125.6	—	—	1,795	0.641	—	—
03/31/1979	35'	134.5	—	—	2,095	0.603	—	—
03/31/1979	40'	142.7	—	—	2,395	0.569	—	—
03/31/1979	50'	158.4	—	—	2,995	0.504	—	—
03/31/1979	60'	171.4	—	—	3,595	0.449	—	—
03/31/1979	70'	183.4	—	—	4,195	0.399	24.99	—
03/31/1979	80'	194.0	—	—	4,795	0.355	24.99	—
03/31/1979	90'	203.2	—	—	5,395	0.316	24.99	—
03/31/1979	100'	211.4	—	—	5,995	0.282	—	—
03/31/1979	110'	218.7	—	—	6,595	0.252	—	—

Table 8. Data from shut-in test 1 performed on the Rustler/Salado contact zone in well H–1.

Test start date:	04/07/1979	Test end date:	04/12/1979
Hole depth:	—	Geologic unit tested:	Rustler/Salado contact zone
Cased interval:	—	Packer type:	—
Interval tested:	—	Packer diameter:	—
Diameter of tested interval:	—	Tubing diameter:	—
Packer set depth:	—	Transducer depth:	—
Shut in after:	Flow	Pre-test inflow rate:	—

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
04/07/1979	11:13	248.9	—	—	—	25.18	Pretest.
04/07/1979	11:32	248.4	—	—	—	25.17	Pretest.
04/07/1979	11:37	—	5,827	0"	0	25.17	—
04/07/1979	—	402.0	—	5"	—	25.17	—
04/07/1979	—	394.1	—	10"	—	25.17	—
04/07/1979	—	391.5	—	15"	—	25.17	—
04/07/1979	—	396.8	—	20"	—	25.17	—
04/07/1979	—	407.5	—	25"	—	25.17	—
04/07/1979	—	412.1	—	30"	—	11,655.00	25.17
04/07/1979	—	409.8	—	35"	—	25.17	—
04/07/1979	—	407.6	—	40"	—	25.17	—
04/07/1979	—	405.9	—	45"	—	25.17	—
04/07/1979	—	406.0	—	50"	—	25.17	—
04/07/1979	—	409.8	—	55"	—	25.17	—
04/07/1979	—	408.0	—	60"	1	5,828.00	25.17
04/07/1979	—	405.7	—	65"	—	25.17	—
04/07/1979	—	404.1	—	70"	—	25.17	—
04/07/1979	—	393.3	—	80"	—	25.17	—
04/07/1979	—	390.7	—	90"	—	25.17	—
04/07/1979	—	388.1	—	100"	—	25.17	—

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Table 8. Data from shut-in test 1 performed on the Rustler/Salado contact zone in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
04/07/1979	—	386.3	—	110"	—	—	25.17	—
04/07/1979	—	384.0	—	120"	2	2,914.00	25.17	—
04/07/1979	—	382.0	—	130"	—	—	25.17	—
04/07/1979	—	380.1	—	140"	—	—	25.17	—
04/07/1979	—	378.2	—	150"	—	—	25.17	—
04/07/1979	—	380.0	—	165"	—	—	25.17	—
04/07/1979	—	377.3	—	180"	3	1,943.00	25.17	—
04/07/1979	—	372.6	—	210"	—	—	25.17	—
04/07/1979	—	368.8	—	4'	4	1,458.00	25.17	—
04/07/1979	—	365.0	—	4' 30"	—	—	25.17	—
04/07/1979	—	361.1	—	5'	5	1,166.00	25.17	—
04/07/1979	—	357.7	—	5' 30"	—	—	25.17	—
04/07/1979	—	354.5	—	6'	6	972.00	25.17	—
04/07/1979	—	351.7	—	6' 30"	—	—	25.17	—
04/07/1979	—	349.0	—	7'	7	833.00	25.17	—
04/07/1979	—	346.5	—	7' 30"	—	—	25.17	—
04/07/1979	—	343.9	—	8'	8	729.00	25.17	—
04/07/1979	—	341.5	—	8' 30"	—	—	25.17	—
04/07/1979	—	339.0	—	9'	9	648.00	25.17	—
04/07/1979	—	334.8	—	10'	10	584.00	25.16	—
04/07/1979	—	331.0	—	11'	—	—	25.16	—
04/07/1979	—	327.6	—	12'	—	—	25.16	—
04/07/1979	—	319.6	—	15'	15	389.00	25.16	—
04/07/1979	—	314.6	—	17'	—	—	25.16	—
04/07/1979	—	309.1	—	20'	20	292.00	25.16	—
04/07/1979	—	302.1	—	25'	—	—	25.16	—
04/07/1979	—	297.0	5,857	30'	30	195.00	25.15	—
04/07/1979	—	290.4	—	40'	40	147.00	25.15	—
04/07/1979	—	288.7	—	45'	—	—	25.14	—
04/07/1979	—	286.5	—	50'	50	117.00	25.14	—
04/07/1979	—	284.7	—	55'	—	—	25.14	—
04/07/1979	—	283.1	—	60'	60	98.10	25.13	—
04/07/1979	—	281.9	—	65'	—	—	25.13	—
04/07/1979	—	278.6	—	80'	80	73.80	25.13	—
04/07/1979	—	276.8	—	90'	90	65.70	25.12	—
04/07/1979	—	275.2	—	101'	—	—	25.12	—

Table 8. Data from shut-in test 1 performed on the Rustler/Salado contact zone in well H–1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
04/07/1979	—	273.6	—	110'	110	54.00	25.12	—
04/07/1979	—	272.7	—	120'	120	49.60	25.11	—
04/07/1979	13:52	271.1	5,962	135'	135	44.20	25.11	—
04/07/1979	14:00	270.3	5,970	—	143	41.80	25.11	—
04/07/1979	14:30	267.5	—	—	—	34.70	25.10	—
04/07/1979	15:00	265.2	—	—	—	29.70	25.07	—
04/07/1979	15:30	263.4	—	—	—	26.00	25.05	—
04/07/1979	16:00	262.1	—	—	—	23.20	25.04	—
04/07/1979	16:30	260.8	—	—	—	20.90	25.05	—
04/07/1979	17:00	259.6	—	—	—	19.00	25.04	—
04/07/1979	17:30	258.6	—	—	—	17.50	25.05	—
04/07/1979	18:00	257.8	—	—	—	16.20	25.06	—
04/07/1979	18:30	257.1	—	—	—	15.10	25.09	—
04/07/1979	19:00	256.4	—	—	—	14.20	25.09	—
04/07/1979	19:30	255.7	—	—	—	13.30	25.11	—
04/07/1979	20:00	255.3	—	—	—	12.60	25.11	—
04/07/1979	20:30	254.9	—	—	—	11.90	25.12	—
04/07/1979	21:00	254.3	—	—	—	11.40	25.13	—
04/07/1979	21:30	253.9	—	—	—	10.80	25.13	—
04/07/1979	22:00	253.4	—	—	—	10.40	25.13	—
04/07/1979	22:30	253.0	—	—	—	9.92	25.13	—
04/07/1979	23:00	252.6	—	—	—	9.53	25.13	—
04/07/1979	23:30	252.2	—	—	—	9.17	25.14	—
04/08/1979	0:00	251.9	—	—	—	8.84	25.13	—
04/08/1979	1:00	251.8	—	—	—	8.26	25.13	—
04/08/1979	2:00	250.3	—	—	—	7.75	25.13	—
04/08/1979	3:00	249.6	6,750	—	923	7.31	25.13	—
04/08/1979	4:00	249.1	6,810	—	983	6.93	25.16	—
04/08/1979	5:00	248.6	—	—	—	6.59	25.17	—
04/08/1979	6:00	247.7	—	—	—	6.28	25.20	—
04/08/1979	7:00	246.1	—	—	—	6.01	25.21	—
04/08/1979	8:00	245.3	—	—	—	5.76	25.23	—
04/08/1979	9:00	244.5	—	—	—	5.54	25.22	—
04/08/1979	10:00	243.9	—	—	—	5.34	25.23	—
04/08/1979	11:00	243.7	—	—	—	5.15	25.24	—
04/08/1979	12:00	243.1	—	—	—	4.98	25.18	—

Table 8. Data from shut-in test 1 performed on the Rustler/Salado contact zone in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
04/08/1979	13:00	242.7	—	—	—	4.83	25.17	—
04/08/1979	14:00	242.2	—	—	—	4.68	25.12	—
04/08/1979	15:00	241.9	—	—	—	4.55	25.09	—
04/08/1979	16:00	241.6	—	—	—	4.42	25.07	—
04/08/1979	17:00	241.5	—	—	—	4.31	25.07	—
04/08/1979	18:00	241.4	—	—	—	4.20	25.06	—
04/08/1979	19:00	241.6	—	—	—	4.09	25.07	—
04/08/1979	20:00	241.5	—	—	—	4.00	25.10	—
04/08/1979	21:00	241.4	—	—	—	3.91	25.09	—
04/08/1979	22:00	241.4	—	—	—	3.82	25.10	—
04/08/1979	23:00	241.4	—	—	—	3.74	25.10	—
04/09/1979	0:00	241.3	—	—	—	3.67	25.08	—
04/09/1979	1:00	241.1	—	—	—	3.60	25.09	—
04/09/1979	2:00	240.9	—	—	—	3.53	25.09	—
04/09/1979	3:00	240.7	—	—	—	3.47	25.08	—
04/09/1979	4:00	240.7	8,250	—	2,423	3.40	25.05	—
04/09/1979	5:00	240.6	—	—	—	3.35	25.03	—
04/09/1979	6:00	240.4	—	—	—	3.29	25.03	—
04/09/1979	7:00	240.0	—	—	—	3.24	25.01	—
04/09/1979	8:00	239.7	—	—	—	3.19	25.03	—
04/09/1979	10:00	238.9	—	—	—	3.09	25.01	—
04/09/1979	11:00	235.1	—	—	—	3.05	24.96	—
04/09/1979	12:00	237.8	—	—	—	3.01	24.93	—
04/09/1979	13:00	237.7	—	—	—	2.97	24.86	—
04/09/1979	14:00	237.5	—	—	—	2.93		—
04/09/1979	15:00	237.3	—	—	—	2.89	24.83	—
04/09/1979	16:00	237.3	—	—	—	2.85	24.81	—
04/09/1979	17:00	237.4	—	—	—	2.82	24.81	—
04/09/1979	18:00	237.6	—	—	—	2.79	24.81	—
04/09/1979	19:00	237.9	—	—	—	2.75	24.81	—
04/09/1979	20:00	238.0	—	—	—	2.72	24.85	—
04/09/1979	21:00	238.1	—	—	—	2.69	24.85	—
04/09/1979	22:00	238.2	—	—	—	2.66	24.85	—
04/09/1979	23:00	238.3	—	—	—	2.64	24.83	—
04/10/1979	0:00	238.3	9,450	—	3,623	2.61	24.82	—
04/10/1979	1:00	238.3	9,510	—	3,683	2.58	24.80	—

Table 8. Data from shut-in test 1 performed on the Rustler/Salado contact zone in well H–1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
04/10/1979	2:00	238.3	—	—	—	2.56	24.80	—
04/10/1979	3:00	238.3	—	—	—	2.53	24.80	—
04/10/1979	4:00	238.4	—	—	—	2.51	24.79	—
04/10/1979	5:00	238.3	—	—	—	2.49	24.77	—
04/10/1979	6:00	238.3	—	—	—	2.46	24.78	—
04/10/1979	7:00	237.5	—	—	—	2.44	24.78	—
04/10/1979	8:30	236.7	—	—	—	2.41	24.72	—
04/10/1979	9:30	236.5	—	—	—	2.39	24.71	—
04/10/1979	10:30	236.3	—	—	—	2.37	24.67	—
04/10/1979	12:30	236.4	—	—	—	2.33	24.60	—
04/10/1979	13:30	235.8	—	—	—	2.31	24.58	—
04/10/1979	14:30	235.8	—	—	—	2.30	24.59	—
04/10/1979	15:30	236.1	—	—	—	2.28	24.59	—
04/10/1979	16:30	236.4	—	—	—	2.26	24.60	—
04/10/1979	17:30	236.6	—	—	—	2.25	24.62	—
04/10/1979	18:30	236.9	—	—	—	2.23	24.68	—
04/10/1979	19:30	237.1	—	—	—	2.22	24.69	—
04/10/1979	20:30	237.2	—	—	—	2.20	24.70	—
04/10/1979	21:30	237.2	—	—	—	2.19	24.72	—
04/10/1979	22:30	237.4	—	—	—	2.17	24.71	—
04/10/1979	23:30	237.5	—	—	—	2.16	24.76	—
04/11/1979	0:30	237.5	10,920	—	5,093	2.14	24.76	—
04/11/1979	1:30	237.6	—	—	—	2.13	24.75	—
04/11/1979	2:30	237.6	—	—	—	2.12	24.73	—
04/11/1979	3:30	237.7	—	—	—	2.11	24.75	—
04/11/1979	4:30	237.8	—	—	—	2.09	24.73	—
04/11/1979	5:30	237.9	—	—	—	2.08	24.76	—
04/11/1979	6:30	237.6	—	—	—	2.07	24.76	—
04/11/1979	7:30	237.3	—	—	—	2.06	24.78	—
04/11/1979	8:30	237.0	—	—	—	2.05	24.75	—
04/11/1979	9:30	236.7	—	—	—	2.03	24.76	—
04/11/1979	10:30	236.6	—	—	—	2.02	24.73	—
04/11/1979	11:30	236.5	—	—	—	2.01	24.75	—
04/11/1979	12:30	236.3	—	—	—	2.00	24.72	—
04/11/1979	13:30	236.3	—	—	—	1.99	24.72	—
04/11/1979	14:30	236.4	—	—	—	1.98	24.74	—

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Table 8. Data from shut-in test 1 performed on the Rustler/Salado contact zone in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
04/11/1979	15:30	236.3	—	—	—	1.97	24.71	—
04/11/1979	16:30	236.4	—	—	—	1.96	24.72	—
04/11/1979	17:30	236.6	—	—	—	1.95	24.74	—
04/11/1979	18:30	236.7	—	—	—	1.94	24.74	—
04/11/1979	19:30	236.9	—	—	—	1.93	24.75	—
04/11/1979	20:30	237.1	—	—	—	1.93	24.82	—
04/11/1979	21:30	237.3	—	—	—	1.92	24.87	—
04/11/1979	22:30	237.4	12,240	—	6,413	1.91	24.88	—
04/11/1979	23:30	237.5	12,300	—	6,473	1.90	24.93	—
04/12/1979	0:30	237.6	12,360	—	6,533	1.89	24.93	—
04/12/1979	1:30	237.7	—	—	—	1.88	24.96	—
04/12/1979	2:30	237.9	—	—	—	1.88	24.96	—
04/12/1979	3:30	237.9	—	—	—	1.87	24.97	—
04/12/1979	4:30	238.3	—	—	—	1.86	25.00	—
04/12/1979	5:30	238.4	—	—	—	1.85	25.00	—
04/12/1979	6:30	238.3	—	—	—	1.85	25.01	—
04/12/1979	7:30	238.0	—	—	—	1.84	25.04	—
04/12/1979	8:30	237.7	—	—	—	1.83	25.03	—
04/12/1979	9:30	237.5	—	—	—	1.82	25.03	—
04/12/1979	10:30	237.4	—	—	—	1.82	24.98	—
04/12/1979	11:30	237.3	—	—	—	1.81	24.97	—
04/12/1979	12:30	237.3	—	—	—	1.80	24.93	—
04/12/1979	13:30	237.3	—	—	—	1.80	24.91	End shut-in. Start flow test.

Table 9. Data from flow test 1 performed on the Rustler-Salado contact zone in well H–1.

Test start date:	04/12/1979	Test end data:	05/11/1979
Hole depth:	831 feet	Geologic unit tested:	Rustler/Salado contact zone
Cased interval:	0–831 feet	Packer type:	Production injection with feed through
Interval tested:	803–827 feet	Packer diameter:	—
Inner diameter of tested interval:	6.366 inches	Tubing diameter:	1.99 inches
Packer set depth:	780.5 feet	Transducer depth:	783.86 feet

H_0 represents the apparent height of the column of water above the reference datum at the start of the flow test.

H represents the apparent height of the column of water above the reference datum as a function of time.

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since start of flow test, in minutes (') and seconds (")	Time elapsed since start of flow test, in seconds	H/ H_0	Barometric pressure, in inches of mercury	Remarks
04/12/1979	15:05	235.6	—	—	—	—	Pretest. Pretest SFL may be high.
04/12/1979	—	—	0"	0	—	24.96	—
04/12/1979	—	25.9	5"	5	—	—	$H_0 = 217.70$ pounds per square inch.
04/12/1979	—	24.3	10"	10	—	—	—
04/12/1979	—	21.6	15"	15	—	—	H = 235.6 pounds per square inch minus measured pressure, in pounds per square inch.
04/12/1979	—	19.8	20"	20	—	—	—
04/12/1979	—	18.0	25"	25	—	—	—
04/12/1979	—	17.9	30"	30	1.000	—	—
04/12/1979	—	18.1	35"	35	0.999	—	—
04/12/1979	—	18.3	40"	40	0.998	—	—
04/12/1979	—	18.5	45"	45	0.997	—	—
04/12/1979	—	18.5	50"	50	0.997	—	—
04/12/1979	—	18.7	55"	55	0.996	—	—
04/12/1979	—	18.8	60"	60	0.996	—	—
04/12/1979	—	19.0	70"	70	0.995	—	—
04/12/1979	—	19.1	80"	80	0.994	—	—
04/12/1979	—	19.3	90"	90	0.994	—	—
04/12/1979	—	19.4	100"	100	0.993	—	—
04/12/1979	—	19.6	110"	110	0.992	—	—

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Table 9. Data from flow test 1 performed on the Rustler-Salado contact zone in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since start of flow test, in minutes (') and seconds (")	Time elapsed since start of flow test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
04/12/1979	—	19.6	120"	120	0.992	—	—
04/12/1979	—	19.7	130"	130	0.992	—	—
04/12/1979	—	19.8	140"	140	0.991	—	—
04/12/1979	—	19.9	150"	—	—	—	—
04/12/1979	—	19.9	160"	—	—	—	—
04/12/1979	—	20.0	170"	—	—	—	—
04/12/1979	—	20.0	180"	—	—	—	—
04/12/1979	—	20.2	3' 30"	210	0.989	—	—
04/12/1979	—	20.3	4'	—	—	—	—
04/12/1979	—	20.4	4' 30"	—	—	—	—
04/12/1979	—	20.5	5'	300	0.988	—	—
04/12/1979	—	20.7	6'	—	—	—	—
04/12/1979	—	20.9	7'	420	0.986	—	—
04/12/1979	—	21.1	8'	480	0.985	—	—
04/12/1979	—	21.2	9'	—	—	—	—
04/12/1979	—	21.3	10'	600	0.984	—	—
04/12/1979	—	21.5	12'	720	0.983	—	—
04/12/1979	—	21.8	15'	900	0.982	—	—
04/12/1979	—	21.9	17'	—	—	—	—
04/12/1979	—	22.1	20'	1,200	0.981	—	—
04/12/1979	—	22.4	25'	—	—	24.97	—
04/12/1979	—	22.6	30'	1,800	0.978	—	—
04/12/1979	—	22.8	35'	—	—	—	—
04/12/1979	—	23.0	40'	2,400	0.977	—	—
04/12/1979	—	23.1	45'	—	—	—	—
04/12/1979	—	23.2	50'	3,000	0.976	—	—
04/12/1979	—	23.3	55'	3,300	—	24.98	—
04/12/1979	—	23.4	60'	3,600	0.975	—	—
04/12/1979	—	23.6	70'	4,200	0.974	—	—
04/12/1979	—	23.8	80'	4,800	0.973	24.99	—
04/12/1979	—	—	90'	5,400	—	25.00	—
04/12/1979	17:00	24.3	—	6,667	0.971	25.00	—
04/12/1979	17:30	24.6	—	8,467	0.969	25.02	—
04/12/1979	18:00	24.9	—	10,267	0.968	25.03	—
04/12/1979	18:30	25.0	—	12,067	0.966	25.04	—
04/12/1979	19:00	25.3	—	13,867	0.966	25.07	—

Table 9. Data from flow test 1 performed on the Rustler-Salado contact zone in well H–1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since start of flow test, in minutes (') and seconds (")	Time elapsed since start of flow test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
04/12/1979	19:30	25.5	—	15,667	0.965	25.09	—
04/12/1979	20:00	25.8	—	17,467	0.964	25.12	—
04/12/1979	20:30	25.9	—	19,267	0.963	25.15	—
04/12/1979	21:00	26.0	—	21,067	0.963	25.17	—
04/12/1979	21:30	26.2	—	22,867	0.962	25.18	—
04/12/1979	22:00	26.3	—	24,667	0.961	25.19	—
04/12/1979	22:30	26.4	—	26,467	0.961	25.20	—
04/12/1979	23:00	26.5	—	28,267	0.960	25.21	—
04/12/1979	23:30	26.6	—	30,067	0.960	25.21	—
04/13/1979	0:00	26.7	—	31,867	0.960	25.22	—
04/13/1979	0:30	26.8	—	33,667	0.959	25.23	—
04/13/1979	1:00	27.0	—	35,467	0.959	25.21	—
04/13/1979	1:30	27.2	—	37,267	0.958	25.21	—
04/13/1979	2:00	27.2	—	39,067	0.958	25.20	—
04/13/1979	2:30	27.2	—	40,867	0.958	25.22	—
04/13/1979	3:00	27.2	—	42,667	0.958	25.23	—
04/13/1979	3:30	27.4	—	44,467	0.957	25.21	—
04/13/1979	4:00	27.5	—	46,267	0.956	25.22	—
04/13/1979	4:30	27.7	—	48,067	0.955	25.22	—
04/13/1979	5:00	27.7	—	49,867	0.955	25.25	—
04/13/1979	5:30	27.8	—	51,667	0.955	25.24	—
04/13/1979	6:00	27.9	—	53,467	0.954	25.25	—
04/13/1979	6:30	27.8	—	55,267	0.955	25.28	—
04/13/1979	7:00	27.8	—	57,067	0.955	25.28	—
04/13/1979	7:30	27.7	—	58,867	0.955	25.26	—
04/13/1979	8:00	27.7	—	60,667	0.955	25.27	—
04/13/1979	8:30	27.6	—	62,467	0.956	25.26	—
04/13/1979	9:00	27.6	—	64,267	0.956	25.26	—
04/13/1979	9:30	27.7	—	66,067	0.955	25.27	—
04/13/1979	10:00	27.7	—	67,867	0.955	25.25	—
04/13/1979	10:30	27.7	—	69,667	0.955	25.24	—
04/13/1979	11:00	27.7	—	71,467	0.955	25.22	—
04/13/1979	11:30	27.7	—	73,267	0.955	25.21	—
04/13/1979	12:00	27.7	—	75,067	0.955	25.20	—
04/13/1979	12:30	27.9	—	76,867	0.954	25.17	—
04/13/1979	13:00	27.8	—	78,667	0.955	25.16	—

Table 9. Data from flow test 1 performed on the Rustler-Salado contact zone in well H-1.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since start of flow test, in minutes (') and seconds (")	Time elapsed since start of flow test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
04/13/1979	18:30	28.6	—	98,467	0.951	—	Data logger removed.
04/14/1979	11:30	30.1	—	159,667	0.944	—	—
04/15/1979	12:20	32.3	—	249,067	0.934	—	—
04/16/1979	9:45	34.4	—	326,167	0.924	—	—
04/16/1979	14:00	34.6	—	341,467	0.923	—	—
04/17/1979	11:00	36.3	—	417,067	0.915	—	—
04/18/1979	10:10	40.8	—	500,467	0.895	—	—
04/19/1979	10:30	45.8	—	588,067	0.872	—	—
04/24/1979	12:00	52.3	—	1,025,467	0.842	—	Packer may have slipped down by 1.45 feet.
04/25/1979	9:10	53.2	—	1,101,667	0.838	—	Tubing slipped 1.45 feet.
04/25/1979	13:05	53.3	—	1,115,767	0.837	—	—
04/26/1979	10:00	54.5	—	1,190,767	0.832	—	—
04/27/1979	10:15	55.1	—	1,278,067	0.829	—	—
04/28/1979	11:20	56.6	—	1,368,667	0.822	—	Mountain Standard Time.
04/29/1979	11:30	57.5	—	1,455,667	0.819	—	Mountain Daylight Savings Time.
04/30/1979	11:40	58.4	—	1,542,667	0.814	—	—
05/01/1979	10:00	58.9	—	1,623,067	0.812	—	—
05/02/1979	8:10	60.1	—	1,702,867	0.806	—	—
05/03/1979	11:15	61.2	—	1,800,367	0.801	—	—
05/03/1979	12:20	61.2	—	1,804,267	0.801	—	Measured fluid in tubing at 674 feet.
05/04/1979	8:10	62.3	—	1,875,667	0.796	—	Density = 1.27.
05/05/1979	14:10	62.3	—	1,983,667	0.796	—	—
05/07/1979	15:55	63.7	—	2,162,767	0.790	—	—
05/08/1979	14:00	64.7	—	2,242,267	0.785	—	—
05/09/1979	9:30	65.6	—	2,312,467	0.781	—	—
05/11/1979	14:50	67.8	—	2,504,467	0.771	—	—
05/17/1979	13:10	72.8	—	—	—	—	—
05/21/1979	8:45	85.3	—	3,346,567	0.690	—	Pressure readout bouncing around.
05/24/1979	9:00	68.5	—	3,606,667	0.768	—	—
05/25/1979	13:00	78.0	—	3,707,467	0.724	—	—

Table 10. Data from bailing test 1 performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in tank, in feet	Cumulative volume of water removed, in gallons	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since bailing stopped, in minutes (') and seconds (") (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/02/1979	10:22	24	—	—	—	—	—	—	—	—
02/02/1979	10:23	25	0.80	230.3	—	—	—	—	—	—
02/02/1979	10:24	26	—	—	—	—	—	—	—	—
02/02/1979	10:25	27	—	—	—	—	—	—	—	—
02/02/1979	10:27	28	—	—	—	—	—	—	—	—
02/02/1979	10:28	29	—	—	—	—	—	—	—	—
02/02/1979	10:29	30	0.97	279.2	—	—	—	—	—	—
02/02/1979	10:32	31	—	—	—	—	—	—	—	—
02/02/1979	10:33	32	—	—	—	—	—	—	—	—
02/02/1979	10:34	33	—	—	—	—	—	—	—	—
02/02/1979	10:36	34	—	—	—	—	—	—	—	—
02/02/1979	10:37	35	—	—	—	—	—	—	—	—
02/02/1979	10:38	36	—	—	—	—	—	—	—	—
02/02/1979	10:40	37	—	—	—	—	—	—	—	—
02/02/1979	10:42	38	1.26	362.7	—	—	—	—	—	—
02/02/1979	10:45	39	—	—	—	—	—	—	—	—
02/02/1979	10:46	40	—	—	—	—	—	—	—	—
02/02/1979	10:47	41	—	—	—	—	—	—	—	—
02/02/1979	10:50	42	—	—	—	—	—	—	—	—
02/02/1979	10:51	43	—	—	—	—	—	—	—	—
02/02/1979	10:53	44	—	—	—	—	—	—	—	—
02/02/1979	10:53	45	1.42	408.8	—	—	—	—	—	—
02/02/1979	—	—	—	—	0.0	65.45	4' 45"	13.80	—	—
02/02/1979	—	—	—	—	0.2	—	5'	13.20	—	—
02/02/1979	—	—	—	—	0.2	—	5' 30"	12.10	—	—
02/02/1979	—	—	—	—	0.3	—	6'	11.20	—	—
02/02/1979	—	—	—	—	0.3	—	6' 30"	10.40	—	—
02/02/1979	—	—	—	—	0.4	—	7' 05"	9.61	—	—
02/02/1979	—	—	—	—	0.5	—	8' 55"	7.84	—	—
02/02/1979	—	—	—	—	0.6	—	10' 40"	6.72	—	—
02/02/1979	—	—	—	—	0.7	—	12' 30"	5.88	—	—
02/02/1979	—	—	—	—	0.8	—	14' 08"	5.32	—	—
02/02/1979	—	—	—	—	0.9	—	15' 55"	4.83	—	—
02/02/1979	—	—	—	—	1.0	—	17' 57"	4.40	—	—
02/02/1979	—	—	—	—	1.1	—	19' 52"	4.07	25.37	—
02/02/1979	—	—	—	—	1.2	—	21' 46"	3.80	—	—

Table 10. Data from bailing test 1 performed on the Magenta Dolomite Member in well H–2A.—Continued

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in tank, in feet	Cumulative volume of water removed, in gallons	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since bailing stopped, in minutes (') and seconds (") (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/02/1979	—	—	—	—	1.3	—	24' 10"	3.52	—	—
02/02/1979	—	—	—	—	1.3	—	25'	3.44	—	—
02/02/1979	—	—	—	—	1.5	91.00	30'	3.03	—	—
02/02/1979	—	—	—	—	1.7	—	35'	2.74	—	—
02/02/1979	—	—	—	—	1.8	—	40'	2.53	—	—
02/02/1979	—	—	—	—	2.0	—	45'	2.36	—	—
02/02/1979	—	—	—	—	2.2	—	50'	2.22	—	—
02/02/1979	—	—	—	—	2.5	—	60'	2.02	—	—
02/02/1979	—	—	—	—	2.8	—	70'	1.87	—	—
02/02/1979	—	—	—	—	3.1	—	80'	1.76	—	—
02/02/1979	—	—	—	—	3.4	—	90'	1.68	—	—
02/02/1979	—	—	—	—	4.0	—	100'	1.61	—	—
02/02/1979	—	—	—	—	4.1	—	110'	1.55	—	—
02/02/1979	—	—	—	—	4.2	—	120'	1.51	—	—
02/02/1979	—	—	—	—	4.5	—	130'	1.47	—	—
02/02/1979	—	—	—	—	4.5	—	140'	1.44	—	—
02/02/1979	—	—	—	—	4.5	—	150'	1.41	25.28	Pulled transducer out of hole. Waiting for packer to put in hole.

40 Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico

Table 11. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-2A.

Test start date:	02/13/1979	Test end date:	02/15/1979
Hole depth:	563 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0-511 feet	Packer type:	Production injection with feed through
Interval tested:	511-563 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Tubing diameter:	—
Packer set depth:	505.48 feet	Transducer depth:	—
Shut in after:	Bailing	Pre-test inflow rate:	

Static water level, on February 13, 1979, was 236.95 feet below land surface.

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (")	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/13/1979	10:26	38.8	—	—	—	—	25.22	Pretest.
02/13/1979	17:30	—	456.23	0"	0.00	—	25.22	—
02/13/1979	—	59.7	—	5"	—	5,476.00	25.22	Approximately 75 gallons of water
02/13/1979	—	59.8	—	10"	—	2,738.00	25.22	poured into the hole to get water
02/13/1979	—	59.8	—	15"	—	1,826.00	25.22	level above point where packer
02/13/1979	—	60.0	—	20"	—	1,370.00	25.22	is to be set.
02/13/1979	—	60.3	—	25"	—	1,096.00	25.22	—
02/13/1979	—	60.5	—	30"	—	913.00	25.22	—
02/13/1979	—	61.0	—	35"	—	783.00	25.22	—
02/13/1979	—	61.5	—	40"	—	685.00	25.22	—
02/13/1979	—	61.7	—	45"	—	609.00	25.22	—
02/13/1979	—	61.9	—	50"	—	548.00	25.22	—
02/13/1979	—	61.9	—	55"	—	499.00	25.22	—
02/13/1979	—	62.0	—	60"	—	457.00	25.22	—
02/13/1979	—	63.8	—	80"	—	343.00	25.22	—
02/13/1979	—	63.9	—	90"	—	305.00	25.22	—
02/13/1979	—	64.0	—	100"	—	275.00	25.22	—
02/13/1979	—	64.1	—	110"	—	250.00	25.22	—
02/13/1979	—	64.2	—	120"	—	229.00	25.22	—
02/13/1979	—	64.3	—	130"	—	212.00	25.22	—

Table 11. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H–2A.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (")	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/13/1979	—	64.4	—	140"	—	197.00	25.22	—
02/13/1979	—	64.4	—	150"	—	183.00	25.22	—
02/13/1979	—	64.5	—	165"	—	167.00	25.22	—
02/13/1979	—	64.7	459.23	180"	3.00	153.00	25.22	—
02/13/1979	—	65.1	—	210"	—	131.00	25.22	—
02/13/1979	—	65.5	—	4'	—	115.00	25.22	—
02/13/1979	—	66.1	—	4' 35"	—	102.00	25.22	—
02/13/1979	—	66.6	—	5'	—	92.20	25.22	—
02/13/1979	—	67.5	—	6'	—	77.00	25.22	—
02/13/1979	—	68.0	—	7'	—	66.20	25.22	—
02/13/1979	17:38	69.4	—	8'	—	58.00	25.23	—
02/13/1979	—	71.4	—	10'	—	46.60	25.23	—
02/13/1979	—	73.5	—	12'	—	39.00	25.23	—
02/13/1979	—	76.7	—	15'	—	31.40	25.23	—
02/13/1979	—	82.2	—	20'	—	23.80	25.23	—
02/13/1979	—	87.9	—	25'	—	19.20	25.23	—
02/13/1979	18:00	93.7	—	30'	—	16.20	25.23	—
02/13/1979	18:02	95.7	488.00	—	31.77	15.40	25.23	—
02/13/1979	18:10	104.9	—	—	—	12.50	24.24	—
02/13/1979	18:20	116.0	—	—	—	10.20	—	—
02/13/1979	18:30	126.4	—	—	—	8.63	—	—
02/13/1979	18:40	135.8	—	—	—	7.54	25.25	—
02/13/1979	18:50	144.2	—	—	—	6.72	25.25	—
02/13/1979	19:00	151.5	—	—	—	6.08	25.26	—
02/13/1979	19:10	157.8	—	—	—	5.57	25.26	—
02/13/1979	19:20	163.5	566.00	—	109.77	5.16	25.26	—
02/13/1979	19:30	168.5	—	—	—	4.81	25.27	—
02/13/1979	19:40	173.0	—	—	—	4.52	25.27	—
02/13/1979	19:50	177.0	—	—	—	4.26	25.28	—
02/13/1979	20:00	180.5	—	—	—	4.05	25.28	—
02/13/1979	20:10	183.8	—	—	—	3.86	25.28	—
02/13/1979	20:20	186.5	—	—	—	3.69	25.28	—
02/13/1979	20:30	189.4	—	—	—	3.54	25.29	—
02/13/1979	20:40	192.0	—	—	—	3.40	25.29	—
02/13/1979	20:50	194.2	—	—	—	3.28	25.30	—
02/13/1979	21:00	196.3	—	—	—	3.17	25.30	—

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Table 11. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (")	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/13/1979	21:10	198.4	—	—	—	3.08	25.30	—
02/13/1979	21:20	200.2	—	—	—	2.99	25.31	—
02/13/1979	21:30	201.9	—	—	—	2.90	25.31	—
02/13/1979	21:40	203.6	—	—	—	2.83	25.31	—
02/13/1979	21:50	205.1	—	—	—	2.76	25.31	—
02/13/1979	22:00	206.7	—	—	—	2.69	25.32	—
02/13/1979	22:10	208.1	—	—	—	2.63	25.31	—
02/13/1979	22:20	209.5	—	—	—	2.57	25.32	—
02/13/1979	22:30	210.7	—	—	—	2.52	25.32	—
02/13/1979	22:40	212.0	—	—	—	2.47	25.31	—
02/13/1979	22:50	213.3	—	—	—	2.43	25.32	—
02/13/1979	23:00	214.4	—	—	—	2.38	25.32	—
02/13/1979	23:10	215.3	—	—	—	2.34	25.32	—
02/13/1979	23:20	216.5	806.00	—	349.77	2.30	25.32	—
02/13/1979	23:30	217.4	—	—	—	2.27	25.32	—
02/13/1979	23:40	218.5	—	—	—	2.23	25.33	—
02/13/1979	23:50	219.4	—	—	—	2.20	25.32	—
02/14/1979	0:00	220.3	—	—	—	2.17	25.33	—
02/14/1979	0:10	222.1	—	—	—	2.14	25.32	—
02/14/1979	0:20	221.9	—	—	—	2.11	25.32	—
02/14/1979	0:30	222.8	—	—	—	2.09	25.32	—
02/14/1979	0:40	223.5	—	—	—	2.06	25.32	—
02/14/1979	0:50	224.2	—	—	—	2.04	25.32	—
02/14/1979	1:00	225.0	—	—	—	2.01	25.32	—
02/14/1979	1:10	225.7	—	—	—	1.99	25.32	—
02/14/1979	1:20	226.5	—	—	—	1.97	25.32	—
02/14/1979	1:30	227.1	—	—	—	1.95	25.32	—
02/14/1979	1:40	227.7	—	—	—	1.93	25.32	—
02/14/1979	1:50	228.3	—	—	—	1.91	25.31	—
02/14/1979	2:00	228.9	—	—	—	1.89	25.31	—
02/14/1979	2:10	229.5	—	—	—	1.88	25.31	—
02/14/1979	2:20	230.1	—	—	—	1.86	25.32	—
02/14/1979	2:30	230.6	—	—	—	1.85	25.31	—
02/14/1979	2:40	231.2	—	—	—	1.83	25.31	—
02/14/1979	2:50	231.6	—	—	—	1.82	25.31	—
02/14/1979	3:00	232.1	—	—	—	1.80	25.30	—

Table 11. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H–2A.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (")	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/14/1979	3:10	232.7	—	—	—	1.79	25.30	—
02/14/1979	3:20	233.2	1,046.00	—	589.77	1.77	25.30	—
02/14/1979	3:30	233.7	—	—	—	1.76	25.30	—
02/14/1979	3:40	234.2	—	—	—	1.75	25.31	—
02/14/1979	3:50	234.6	—	—	—	1.74	25.30	—
02/14/1979	4:00	235.0	—	—	—	1.72	25.30	—
02/14/1979	4:10	235.4	—	—	—	1.71	25.30	—
02/14/1979	4:20	235.9	—	—	—	1.70	25.30	—
02/14/1979	4:30	236.3	—	—	—	1.69	25.30	—
02/14/1979	4:40	236.7	—	—	—	1.68	25.30	—
02/14/1979	4:50	237.1	—	—	—	1.67	25.30	—
02/14/1979	5:00	237.5	—	—	—	1.66	25.30	—
02/14/1979	5:10	237.9	—	—	—	1.65	25.30	—
02/14/1979	5:20	238.2	—	—	—	1.64	25.30	—
02/14/1979	5:30	238.6	—	—	—	1.63	25.30	—
02/14/1979	5:40	239.0	—	—	—	1.63	25.31	—
02/14/1979	5:50	239.3	—	—	—	1.62	25.31	—
02/14/1979	6:00	239.8	—	—	—	1.61	25.31	—
02/14/1979	6:10	240.1	—	—	—	1.60	25.31	—
02/14/1979	6:20	240.4	—	—	—	1.59	25.31	—
02/14/1979	6:30	240.9	—	—	—	1.59	25.31	—
02/14/1979	6:40	241.2	—	—	—	1.58	25.31	—
02/14/1979	6:50	241.5	—	—	—	1.57	25.32	—
02/14/1979	7:00	241.9	—	—	—	1.56	25.32	—
02/14/1979	7:10	242.1	—	—	—	1.56	25.32	—
02/14/1979	7:20	242.1	1,286.00	—	829.77	1.55	25.32	—
02/14/1979	7:30	242.1	—	—	—	1.54	25.32	—
02/14/1979	7:40	242.1	—	—	—	1.54	25.32	—
02/14/1979	7:50	242.1	—	—	—	1.53	25.31	—
02/14/1979	8:00	242.1	—	—	—	1.52	25.31	—
02/14/1979	8:10	242.3	—	—	—	1.52	25.31	—
02/14/1979	8:14	241.4	—	—	—	—	—	—
02/14/1979	8:20	218.4	—	—	—	1.51	25.29	Authors note: Measured pressure value is likely erroneous.
02/14/1979	8:30	242.5	—	—	—	1.51	25.29	—
02/14/1979	8:40	242.8	—	—	—	1.50	25.28	—
02/14/1979	—	—	—	—	—	—	—	Reset data logger time to correct

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Table 11. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (")	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/14/1979	8:50	243.0	—	—	—	1.50	25.27	time at 8:43.
02/14/1979	9:00	243.0	—	—	—	1.49	25.24	Barometric pressure, in inches of
02/14/1979	9:10	243.2	—	—	—	1.49	25.22	mercury measured using a
02/14/1979	9:20	243.3	—	—	—	1.48	25.21	manometer = 25.19.
02/14/1979	9:30	243.3	—	—	—	—	—	—
02/14/1979	9:40	243.4	—	—	—	1.47	25.20	—
02/14/1979	10:00	243.7	—	—	—	1.46	—	—
02/14/1979	—	—	—	—	—	—	—	Data logger time was 7 minutes fast.
02/14/1979	11:00	244.2	—	—	—	1.43	25.18	Reset time on data logger.
02/14/1979	12:00	244.9	—	—	—	1.41	25.11	—
02/14/1979	13:00	245.5	—	—	—	1.39	25.04	—
02/14/1979	14:00	246.4	—	—	—	1.37	25.00	—
02/14/1979	15:00	247.3	—	—	—	1.35	24.97	—
02/14/1979	16:00	248.4	—	—	—	1.34	24.97	—
02/14/1979	17:00	249.5	—	—	—	1.32	25.00	—
02/14/1979	17:42	250.4	1,908.00	—	1,451.77	1.31	25.04	Adjusted data logger time to 17:36.
02/14/1979	18:00	251.0	—	—	—	1.31	25.06	—
02/14/1979	19:00	252.1	—	—	—	1.30	25.08	—
02/14/1979	20:00	253.2	—	—	—	1.29	25.12	—
02/14/1979	21:00	254.2	—	—	—	—	—	—
02/14/1979	22:00	254.9	—	—	—	1.27	25.16	—
02/14/1979	23:00	255.6	—	—	—	1.26	25.17	—
02/15/1979	0:00	256.1	—	—	—	1.25	25.20	—
02/15/1979	1:00	256.7	—	—	—	1.24	25.21	—
02/15/1979	2:00	256.8	—	—	—	1.23	25.22	—
02/15/1979	3:00	257.4	—	—	—	1.23	25.23	—
02/15/1979	4:00	258.1	—	—	—	1.22	25.24	—
02/15/1979	5:00	258.6	—	—	—	1.21	25.26	—
02/15/1979	6:00	259.1	—	—	—	1.21	25.30	—
02/15/1979	7:00	259.0	—	—	—	1.20	25.31	—
02/15/1979	8:00	258.5	—	—	—	1.20	25.30	Data logger time was 14 minutes 30
02/15/1979	8:12	258.6	—	—	—	1.20	—	seconds slow. Adjusted time on
02/15/1979	8:14	258.6	—	—	—	1.20	—	data logger to correct time.
02/15/1979	8:15	258.6	—	—	—	1.20	—	—
02/15/1979	8:17	258.5	—	—	—	1.20	—	—
02/15/1979	9:44	257.6	—	—	—	1.19	25.26	—

Table 11. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H–2A.—Continued

Date	Clock time, HH:MM	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (') and seconds (")	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/15/1979	9:50	257.5	2,816.00	—	2,359.77	1.19	25.26	—

Table 12. Data from slug test 1 performed on the Magenta Dolomite Member in well H–2A.

Test start date:	02/15/1979	Test end date:	02/18/1979
Hole depth:	563 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0–511 feet	Packer type:	Production injection with feed through
Interval tested:	511–563 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Tubing diameter:	1.995 inches
Packer set depth:	508.58 feet	Transducer depth:	508.58 feet

Static water level, on February 13, 1979, was 236.95 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the slug test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
02/15/1979	10:03	—	—	—	—	25.22	Pretest.
02/15/1979	10:04	0"	—	—	—	25.22	512.58 feet of water in tubing above transducer.
02/15/1979	—	5"	510.2	—	—	25.22	—
02/15/1979	—	10"	500.1	—	—	25.22	$H_0 = 234.6$ feet, H = measured pressure, in feet of
02/15/1979	—	15"	500.4	—	—	25.22	water minus 272 feet.
02/15/1979	—	20"	507.6	—	—	25.22	—
02/15/1979	—	25"	506.3	—	—	25.22	—

Table 12. Data from slug test 1 performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
02/15/1979	—	30"	506.0	0	—	25.22	—
02/15/1979	—	35"	506.6	5	1.000	25.22	—
02/15/1979	—	40"	506.5	10	1.000	25.22	—
02/15/1979	—	45"	506.4	15	0.999	25.22	—
02/15/1979	—	50"	506.3	20	0.999	25.22	—
02/15/1979	—	55"	506.3	25	0.999	25.22	—
02/15/1979	—	60"	506.2	30	0.998	25.22	—
02/15/1979	—	70"	506.2	40	0.998	25.22	—
02/15/1979	—	80"	506.2	50	0.998	25.22	—
02/15/1979	—	90"	506.2	60	0.998	25.22	—
02/15/1979	—	100"	506.2	70	0.998	25.22	—
02/15/1979	—	110"	506.2	80	0.998	25.22	—
02/15/1979	—	120"	506.2	90	0.998	25.22	—
02/15/1979	—	130"	506.2	100	0.998	25.22	—
02/15/1979	—	140"	506.1	110	0.998	25.22	—
02/15/1979	—	150"	506.1	120	0.998	25.22	—
02/15/1979	—	180"	506.0	150	0.997	25.22	—
02/15/1979	—	210"	505.8	180	0.997	25.22	—
02/15/1979	—	240"	505.7	210	0.996	25.22	—
02/15/1979	—	270"	505.6	240	0.996	25.22	—
02/15/1979	10:09	5'	505.5	270	0.995	25.22	—
02/15/1979	—	5' 30"	505.4	300	0.995	25.22	—
02/15/1979	—	6'	505.3	330	0.994	25.22	—
02/15/1979	—	7'	504.9	390	0.993	25.22	—
02/15/1979	—	8'	504.7	450	0.992	25.22	—
02/15/1979	—	9'	504.5	510	0.991	25.22	—
02/15/1979	—	10'	504.2	570	0.990	25.22	—
02/15/1979	—	12'	504.0	690	0.989	25.22	—
02/15/1979	—	15'	503.5	870	0.987	25.22	—
02/15/1979	—	17'	503.3	990	0.986	25.22	—
02/15/1979	—	20'	503.0	1,170	0.985	25.22	—
02/15/1979	—	25'	501.9	1,470	0.980	25.22	—
02/15/1979	—	30'	501.3	1,770	0.977	25.22	—
02/15/1979	—	35'	500.4	2,070	0.974	25.22	—
02/15/1979	—	40'	499.9	2,370	0.971	25.22	—
02/15/1979	—	45'	499.2	2,670	0.968	25.22	—
02/15/1979	—	50'	498.6	2,970	0.966	25.22	—
02/15/1979	—	55'	498.6	3,270	0.966	25.21	—

Table 12. Data from slug test 1 performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
02/15/1979	—	60'	497.6	3,570	0.962	25.21	—
02/15/1979	—	70'	496.3	4,170	0.956	25.21	—
02/15/1979	—	81'	495.6	4,830	0.953	25.21	—
02/15/1979	—	90'	494.5	5,370	0.948	25.21	—
02/15/1979	—	100'	493.4	5,970	0.944	25.20	—
02/15/1979	11:50	—	492.7	6,292	0.941	25.23	Went to data logger.
02/15/1979	12:00	—	491.9	6,892	0.937	25.22	—
02/15/1979	12:10	—	491.0	7,492	0.934	25.21	—
02/15/1979	12:20	—	489.6	8,092	0.928	25.20	—
02/15/1979	12:30	—	489.0	8,692	0.925	25.20	—
02/15/1979	12:40	—	488.3	9,292	0.922	25.18	—
02/15/1979	12:50	—	487.5	9,892	0.919	25.18	—
02/15/1979	13:00	—	—	10,492	—	25.18	—
02/15/1979	13:10	—	485.7	11,092	0.911	25.18	—
02/15/1979	13:20	—	484.7	11,692	0.907	25.18	—
02/15/1979	13:30	—	484.2	12,292	0.905	25.18	—
02/15/1979	13:40	—	483.7	12,892	0.902	25.18	—
02/15/1979	13:50	—	483.0	13,492	0.899	25.18	—
02/15/1979	14:00	—	482.2	14,092	0.896	25.17	—
02/15/1979	14:10	—	481.3	14,692	0.892	25.18	—
02/15/1979	14:20	—	480.6	15,292	0.889	—	—
02/15/1979	14:30	—	479.9	15,892	0.886	—	—
02/15/1979	14:40	—	478.8	16,492	0.882	—	—
02/15/1979	15:00	—	477.9	17,692	0.878	25.21	—
02/15/1979	16:00	—	474.1	21,292	0.861	25.23	—
02/15/1979	17:00	—	470.3	24,892	0.845	25.25	—
02/15/1979	18:00	—	467.3	28,492	0.832	25.28	—
02/15/1979	19:00	—	464.9	32,092	0.822	25.33	—
02/15/1979	20:00	—	462.3	35,692	0.811	25.40	—
02/15/1979	21:00	—	458.4	39,292	0.799	25.42	—
02/15/1979	22:00	—	456.6	42,892	0.787	25.53	—
02/15/1979	23:00	—	453.7	46,492	0.775	25.58	—
02/16/1979	0:00	—	450.8	50,092	0.762	25.62	—
02/16/1979	1:00	—	448.1	53,692	0.751	25.62	—
02/16/1979	2:00	—	445.5	57,292	0.740	25.60	—
02/16/1979	3:00	—	442.8	60,892	0.728	25.62	—
02/16/1979	4:00	—	440.4	64,492	0.718	25.61	—
02/16/1979	5:00	—	438.0	68,092	0.708	25.65	—

Table 12. Data from slug test 1 performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
02/16/1979	—	—	—	—	—	—	Freezing temperatures caused printer on data
02/16/1979	7:50	—	430.9	78,292	0.677	25.70	logger to foul.
02/16/1979	8:15	—	430.8	—	0.677	25.73	Reset data logger time to clock time.
02/16/1979	9:00	—	425.5	82,492	0.654	25.42	—
02/16/1979	10:00	—	423.8	86,092	0.647	25.47	—
02/16/1979	11:00	—	421.9	89,692	0.639	25.52	—
02/16/1979	12:00	—	420.1	93,292	0.631	25.46	—
02/16/1979	13:00	—	417.6	96,892	0.621	25.43	—
02/16/1979	14:00	—	415.6	100,492	0.612	25.40	—
02/16/1979	15:00	—	413.5	104,092	0.603	25.44	—
02/16/1979	16:00	—	411.8	107,692	0.596	25.46	—
02/16/1979	17:00	—	409.1	111,292	0.584	25.48	—
02/16/1979	18:00	—	407.8	114,892	0.579	25.47	—
02/16/1979	19:00	—	405.3	118,492	0.568	25.44	—
02/16/1979	20:00	—	403.6	122,092	0.561	25.45	—
02/16/1979	22:00	—	400.6	129,292	0.548	25.48	—
02/17/1979	8:00	—	384.0	165,292	0.477	25.47	—
02/17/1979	8:30	—	383.3	167,092	0.474	25.47	—
02/17/1979	9:00	—	382.6	168,892	0.471	25.44	—
02/17/1979	10:00	—	381.0	172,492	0.465	25.42	—
02/17/1979	11:00	—	378.9	176,092	0.456	25.43	—
02/17/1979	12:00	—	377.3	179,692	0.449	25.40	—
02/17/1979	13:00	—	375.5	183,292	0.441	25.36	—
02/17/1979	14:00	—	373.8	186,892	0.434	25.34	—
02/17/1979	15:00	—	371.6	190,492	0.425	25.32	—
02/17/1979	16:00	—	370.2	194,092	0.419	25.32	—
02/18/1979	8:00	—	355.0	251,692	0.354	25.54	—
02/18/1979	9:00	—	354.8	255,292	0.353	—	—

Table 13. Data from shut-in test 2 and an unnumbered pressure-pulse test performed on the Magenta Dolomite Member in well H-2A.

Test start date:	02/18/1979	Test end data:	02/19/1979
Hole depth:	563 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0–511 feet	Packer type:	Production injection with feed through
Interval tested:	511–563 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Tubing diameter:	—
Packer set depth:	505.08 feet	Transducer depth:	508.58 feet
Shut in after:	Slug test	Pre-test inflow rate:	1.15 cubic feet per day

Static water level, on February 13, 1979, was 236.95 feet below land surface.

Volume of water within the pressurized interval is unknown.

H_0 represents the apparent height of the column of water above the reference datum at the start of the pressure pulse test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Date	Clock time, HH:MM	Time elapsed since slug test began, in minutes	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	Measured pressure, in feet of water	t/t'	Barometric pressure, in inches of mercury	Time elapsed from start of pressure-pulse test (H/H ₀) values, in seconds	H/H ₀	Remarks
02/18/1979	9:09	4,264.73	0"	0.00	351.9	—	25.53	—	—	H ₀ = 481.6 feet
02/18/1979	—	—	5"	—	481.6	51,178.00	25.53	0	—	minus 351.9 feet.
02/18/1979	—	—	10"	—	417.7	25,589.00	25.53	5	—	
02/18/1979	—	—	15"	—	406.0	17,060.00	25.53	10	0.507	—
02/18/1979	—	—	20"	—	397.0	12,795.00	25.53	15	0.417	H = measured
02/18/1979	—	—	25"	—	390.0	10,236.00	25.53	20	0.348	pressure in feet
02/18/1979	—	—	30"	—	383.0	8,530.00	25.53	25	0.294	of water minus
02/18/1979	—	—	35"	—	378.3	7,312.00	25.53	30	0.240	351.9 feet.
02/18/1979	—	—	40"	—	374.5	6,398.00	25.53	35	0.204	
02/18/1979	—	—	45"	—	371.3	5,687.00	25.53	40	0.174	
02/18/1979	—	—	50"	—	371.3	5,119.00	25.53	45	0.150	—

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Table 13. Data from shut-in test 2 and an unnumbered pressure-pulse test performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Time elapsed since slug test began, in minutes	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	Measured pressure, in feet of water	t/t'	Barometric pressure, in inches of mercury	Time elapsed from start of pressure-pulse test (H/H ₀) values, in seconds	H/H ₀	Remarks
02/18/1979	—	—	55"	—	368.4	4,653.00	25.53	50	0.127	—
02/18/1979	—	—	1'	1.00	366.1	4,266.00	25.53	55	0.109	—
02/18/1979	—	—	1' 10"	—	362.6	3,656.00	25.53	65	0.082	—
02/18/1979	—	—	1' 20"	—	359.9	3,200.00	25.53	75	0.062	—
02/18/1979	—	—	1' 30"	—	357.6	2,844.00	25.53	85	0.044	—
02/18/1979	—	—	1' 40"	—	355.9	2,560.00	25.53	95	0.031	—
02/18/1979	—	—	1' 50"	—	354.5	2,327.00	25.53	105	0.020	—
02/18/1979	—	—	2'	—	353.3	2,133.00	25.53	115	0.011	—
02/18/1979	—	—	2' 10"	—	352.1	1,969.00	25.53	125	0.002	—
02/18/1979	—	—	2' 20"	—	351.2	1,829.00	25.53	135	-0.005	—
02/18/1979	—	—	2' 30"	—	350.4	1,707.00	25.53	—	—	—
02/18/1979	—	—	2' 40"	—	349.6	1,600.00	25.53	—	—	—
02/18/1979	—	4,267.57	2' 50"	2.83	348.9	1,506.00	25.52	—	—	—
02/18/1979	—	—	3'	—	348.3	1,423.00	25.52	—	—	—
02/18/1979	—	—	3' 10"	—	347.7	1,348.00	25.52	—	—	—
02/18/1979	—	—	3' 20"	—	347.2	1,280.00	25.52	—	—	—
02/18/1979	—	—	3' 30"	—	346.7	1,220.00	25.52	—	—	—
02/18/1979	—	—	3' 40"	—	346.3	1,164.00	25.52	—	—	—
02/18/1979	—	—	3' 50"	—	345.8	1,114.00	25.52	—	—	—
02/18/1979	—	—	4'	—	345.4	1,067.00	25.52	—	—	—
02/18/1979	—	—	4' 15"	—	344.8	1,004.00	25.52	—	—	—
02/18/1979	—	—	4' 30"	—	344.2	949.00	25.52	—	—	—
02/18/1979	—	—	4' 45"	—	343.7	899.00	25.52	—	—	—
02/18/1979	—	—	5'	—	343.2	854.00	25.52	—	—	—
02/18/1979	—	—	5' 15"	—	342.7	813.00	25.52	—	—	—
02/18/1979	—	—	5' 30"	—	342.3	776.00	25.52	—	—	—
02/18/1979	—	—	5' 45"	—	341.9	743.00	25.52	—	—	—
02/18/1979	—	—	6'	—	341.5	712.00	25.52	—	—	—
02/18/1979	—	—	6' 30"	—	340.7	657.00	25.52	—	—	—
02/18/1979	—	—	7'	—	340.0	610.00	25.52	—	—	—
02/18/1979	—	—	7' 30"	—	339.3	570.00	25.52	—	—	—
02/18/1979	—	—	8'	—	338.8	534.00	25.52	—	—	—
02/18/1979	—	—	8' 30"	—	338.2	503.00	25.52	—	—	—
02/18/1979	—	—	9'	—	337.7	475.00	25.52	—	—	—

Table 13. Data from shut-in test 2 and an unnumbered pressure-pulse test performed on the Magenta Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Time elapsed since slug test began, in minutes	Time elapsed since shut-in test began, in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	Measured pressure, in feet of water	t/t'	Barometric pressure, in inches of mercury	Time elapsed from start of pressure-pulse test (H/H ₀) values, in seconds	H/H ₀	Remarks
02/18/1979	—	—	9 30''	—	337.2	450.00	25.52	—	—	—
02/18/1979	—	4,274.73	10'	10.00	336.8	427.00	25.52	—	—	—
02/18/1979	—	—	12'	—	335.1	356.00	25.52	—	—	—
02/18/1979	—	—	14'	—	333.7	306.00	25.52	—	—	—
02/18/1979	—	—	16'	—	332.6	268.00	25.52	—	—	—
02/18/1979	—	—	18'	—	331.7	238.00	25.52	—	—	—
02/18/1979	—	—	20'	—	330.8	214.00	25.52	—	—	—
02/18/1979	—	—	25'	—	329.1	172.00	25.52	—	—	—
02/18/1979	—	—	30'	—	327.6	143.00	25.52	—	—	—
02/18/1979	—	—	40'	—	325.4	illegible	25.52	—	—	—
02/18/1979	—	—	50'	—	323.6	86.30	25.52	—	—	—
02/18/1979	—	—	60'	—	322.2	72.10	25.52	—	—	—
02/18/1979	—	—	70'	—	321.1	61.90	25.52	—	—	—
02/18/1979	—	—	80'	—	319.9	54.30	25.51	—	—	—
02/18/1979	—	—	90'	—	319.0	48.40	25.51	—	—	—
02/18/1979	—	—	100'	—	318.0	43.60	—	—	—	—
02/18/1979	—	—	110'	—	317.2	39.80	—	—	—	—
02/18/1979	—	—	120'	—	316.5	36.50	25.50	—	—	—
02/18/1979	—	—	130'	—	315.5	33.80	25.49	—	—	—
02/18/1979	—	4,404.73	140'	140.00	315.1	31.50	25.49	—	—	—
02/19/1979	7:55	5,630.00	—	1,365.27	293.0	4.12	25.40	—	—	—
02/19/1979	8:45	5,680.00	—	1,415.27	292.8	4.01	25.39	—	—	—

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Table 14. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H-2A.

Test start date:	02/20/1979	Test end date:	02/21/1979
Hole depth:	661 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0-611 feet	Packer type:	Production injection with feed through
Interval tested:	510-538 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Tubing diameter:	—
Packer set depth:	600.53 feet	Transducer depth:	604.03 feet
Shut in after:	Bailing	Pre-test inflow rate:	33.69 cubic feet per day

Static water level, on February 18, 1979, was 350.08 feet below land surface.

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/20/1979	14:45	—	44.5	—	—	—	25.15	Pretest.
02/20/1979	14:46	0	—	312.23	0	—	25.15	—
02/20/1979	—	5"	111.4	—	—	3748.00	25.15	—
02/20/1979	—	10"	113.8	—	—	1874.00	25.15	—
02/20/1979	—	20"	117.5	—	—	938.00	25.15	—
02/20/1979	—	25"	121.2	—	—	750.00	25.15	—
02/20/1979	—	30"	129.8	—	—	625.00	25.15	—
02/20/1979	—	35"	133.9	—	—	536.00	25.15	—
02/20/1979	—	40"	138.2	—	—	469.00	25.15	—
02/20/1979	—	45"	142.7	—	—	417.00	25.15	—
02/20/1979	—	50"	146.4	—	—	376.00	25.15	—
02/20/1979	—	55"	148.9	—	—	342.00	25.15	—
02/20/1979	—	60"	153.5	—	—	313.00	25.15	—
02/20/1979	—	70"	155.9	—	—	269.00	25.15	—
02/20/1979	—	80"	165.8	—	—	235.00	25.15	—
02/20/1979	—	90"	171.0	—	—	209.00	25.15	—
02/20/1979	—	100"	175.6	—	—	188.00	25.15	—
02/20/1979	—	110"	179.9	—	—	171.00	25.15	—

Table 14. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H–2A.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/20/1979	—	120"	183.1	—	—	157.00	25.15	—
02/20/1979	—	150"	192.1	—	—	126.00	25.15	—
02/20/1979	—	180"	197.7	—	—	105.00	25.15	—
02/20/1979	—	210"	202.1	—	—	90.20	25.15	—
02/20/1979	—	240"	205.3	—	—	79.10	25.14	—
02/20/1979	—	4' 30"	212.3	—	—	70.40	25.14	—
02/20/1979	—	5'	212.3	—	—	63.40	25.14	—
02/20/1979	—	5' 30"	213.2	—	—	57.80	25.14	—
02/20/1979	—	6'	214.2	—	—	53.00	25.14	—
02/20/1979	—	7'	217.3	—	—	45.60	25.14	—
02/20/1979	—	8'	218.5	—	—	40.00	25.14	—
02/20/1979	—	9'	219.8	—	—	35.60	25.14	—
02/20/1979	—	10'	221.0	—	—	32.20	25.14	—
02/20/1979	—	12'	222.9	—	—	27.00	25.14	—
02/20/1979	—	15'	225.3	—	—	21.80	25.14	—
02/20/1979	—	17'	226.5	—	—	19.40	25.14	—
02/20/1979	14:06	20'	228.1	—	—	16.60	25.13	Correct clock time is 15:06.
02/20/1979	—	25'	230.1	—	—	13.50	25.13	—
02/20/1979	—	30'	231.5	—	—	11.40	25.13	—
02/20/1979	—	35'	232.7	—	—	9.92	25.13	—
02/20/1979	—	40'	233.7	—	—	8.81	25.13	—
02/20/1979	—	45'	234.5	—	—	7.94	25.13	—
02/20/1979	—	50'	235.2	—	—	7.24	25.13	—
02/20/1979	—	60'	236.4	—	—	6.20	25.13	—
02/20/1979	—	70'	237.3	—	—	5.46	25.13	—
02/20/1979	—	80'	238.1	—	—	4.90	25.13	—
02/20/1979	—	90'	238.8	—	—	4.47	25.13	—
02/20/1979	—	100'	239.4	—	—	4.12	25.13	—
02/20/1979	16:46	120'	240.4	—	—	3.60	25.13	—
02/20/1979	16:00	—	241.0	—	—	3.33	25.13	Clock time is one hour slow.
02/20/1979	17:00	—	242.5	—	—	2.61	25.16	Clock time is one hour slow.
02/20/1979	17:30	—	243.2	—	—	2.40	25.18	Clock time is one hour slow.
02/20/1979	18:00	—	243.9	—	—	2.23	25.19	Clock time is one hour slow.
02/20/1979	18:30	—	244.3	—	—	2.10	25.21	Clock time is one hour slow.
02/20/1979	19:00	—	244.6	—	—	2.00	25.23	Clock time is one hour slow.
02/20/1979	19:30	—	245.0	—	—	1.91	25.24	Clock time is one hour slow.

Table 14. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H-2A.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/20/1979	20:00	—	245.2	—	—	1.84	25.25	Clock time is one hour slow.
02/20/1979	20:30	—	245.4	—	—	1.77	25.26	Clock time is one hour slow.
02/20/1979	21:00	—	245.6	—	—	1.72	25.28	Clock time is one hour slow.
02/20/1979	21:30	—	245.8	—	—	1.67	25.28	Clock time is one hour slow.
02/20/1979	22:00	—	246.0	—	—	1.63	25.29	Clock time is one hour slow.
02/20/1979	22:30	—	246.1	—	—	1.60	25.29	Clock time is one hour slow.
02/20/1979	23:00	—	246.3	—	—	1.56	25.3	Clock time is one hour slow.
02/20/1979	23:30	—	246.5	—	—	1.53	25.29	Clock time is one hour slow.
02/21/1979	0:00	—	246.6	—	—	1.51	25.3	Clock time is one hour slow.
02/21/1979	0:30	—	246.8	—	—	1.49	25.3	Clock time is one hour slow.
02/21/1979	1:00	—	246.9	—	—	1.46	25.3	Clock time is one hour slow.
02/21/1979	1:30	—	246.9	—	—	1.44	25.3	Clock time is one hour slow.
02/21/1979	2:00	—	247.0	—	—	1.43	25.3	Clock time is one hour slow.
02/21/1979	2:30	—	246.9	—	—	1.41	25.29	Clock time is one hour slow.
02/21/1979	3:00	—	246.9	—	—	1.39	25.29	Clock time is one hour slow.
02/21/1979	3:30	—	246.9	—	—	1.38	25.29	Clock time is one hour slow.
02/21/1979	8:00	—	245.7	—	—	1.30	25.23	Generator ran out of gas between 3:30 and 4:00 AM. Authors note: Based on correct clock times the above entry should read 'Generator ran out of gas between 4:30 and 5:00 AM.'

Table 15. Data from slug test 1 performed on the Culebra Dolomite Member in well H–2B.

Test start date:	02/21/1979	Test end date:	02/21/1979
Hole depth:	661 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0–611 feet	Packer type:	Production injection with feed through
Interval tested:	611–661 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Tubing diameter:	1.995 inches
Packer set depth:	600.53 feet	Transducer depth:	604.03 feet

Static water level, on February 18, 1979, was 350.08 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the slug test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/ H_0	Barometric pressure, in inches of mercury	Remarks
02/21/1979	9:00		245.4	—	—	25.22	Pretest.
02/21/1979	9:11	0"	—	—	—	25.22	
02/21/1979	—	5"	601.2	0	1.000	25.22	$H_0 = 351.2$ feet; H = measured pressure, in feet of water minus 250 feet.
02/21/1979	—	10"	599.8	5	0.996	25.22	
02/21/1979	—	15"	599.4	10	0.995	25.22	—
02/21/1979	—	20"	599.0	15	0.994	25.22	—
02/21/1979	—	25"	598.7	20	0.993	25.22	—
02/21/1979	—	30"	598.5	25	0.992	25.22	—
02/21/1979	—	35"	598.2	30	0.991	25.22	—
02/21/1979	—	40"	597.5	35	0.989	25.22	—
02/21/1979	—	45"	597.6	40	0.990	25.22	—
02/21/1979	—	50"	597.3	45	0.989	25.22	—
02/21/1979	—	55"	597.1	50	0.988	25.22	—
02/21/1979	—	60"	596.8	55	0.987	25.22	—
02/21/1979	—	65"	596.1	60	0.985	25.22	—
02/21/1979	—	70"	596.3	65	0.986	25.22	—
02/21/1979	—	80"	595.9	75	0.985	25.22	—
02/21/1979	—	90"	595.5	85	0.984	25.22	—

Table 15. Data from slug test 1 performed on the Culebra Dolomite Member in well H-2B.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
02/21/1979	—	100"	595.0	95	0.982	25.22	—
02/21/1979	—	110"	594.5	105	0.981	25.22	—
02/21/1979	—	12"	593.9	115	0.979	25.22	—
02/21/1979	—	130"	593.5	125	0.978	25.22	—
02/21/1979	—	140"	593.0	135	0.977	25.22	—
02/21/1979	—	150"	592.5	145	0.975	25.22	—
02/21/1979	—	160"	591.9	155	0.974	25.22	—
02/21/1979	—	170"	591.5	165	0.972	25.22	—
02/21/1979	—	180"	591.1	175	0.971	25.22	—
02/21/1979	—	210"	589.6	205	0.967	25.22	—
02/21/1979	—	240"	588.2	235	0.963	25.22	—
02/21/1979	—	270"	586.9	265	0.959	25.22	—
02/21/1979	—	5'	585.3	295	0.955	25.22	—
02/21/1979	—	6'	582.9	355	0.948	25.22	—
02/21/1979	—	7'	580.3	415	0.940	25.22	—
02/21/1979	—	8'	577.8	475	0.933	25.22	—
02/21/1979	—	9'	575.3	535	0.926	25.22	—
02/21/1979	—	10'	572.8	595	0.919	25.23	—
02/21/1979	—	12'	567.8	715	0.905	25.22	—
02/21/1979	—	15'	560.6	895	0.884	25.22	—
02/21/1979	—	17'	556.0	1,015	0.871	25.22	—
02/21/1979	—	20'	549.2	1,195	0.852	25.21	—
02/21/1979	—	25'	538.3	1,495	0.821	25.21	—
02/21/1979	9:41	30'	527.8	1,795	0.791	25.21	—
02/21/1979	—	35'	517.9	2,095	0.763	25.21	—
02/21/1979	—	40'	508.2	2,395	0.735	25.20	—
02/21/1979	—	45'	498.9	2,695	0.709	25.20	—
02/21/1979	—	50'	490.3	2,995	0.684	25.19	—
02/21/1979	—	60'	473.7	3,595	0.637	25.19	—
02/21/1979	—	70'	458.3	4,195	0.593	25.18	—
02/21/1979	—	80'	444.1	4,795	0.553	25.18	—
02/21/1979	—	90'	430.7	5,395	0.515	25.18	—
02/21/1979	—	100'	418.6	5,995	0.480	25.17	—
02/21/1979	—	120'	396.8	7,195	0.418	25.17	—
02/21/1979	11:40	—	370.6	8,916	0.343	25.15	—
02/21/1979	12:10	—	348.4	10,716	0.280	25.14	—
02/21/1979	12:40	—	330.3	12,516	0.229	25.11	—

Table 15. Data from slug test 1 performed on the Culebra Dolomite Member in well H–2B.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
02/21/1979	13:10	—	315.3	14,316	0.186	25.09	—
02/21/1979	13:40	—	303.2	16,116	0.151	25.08	—
02/21/1979	14:10	—	293.5	17,916	0.124	25.08	—
02/21/1979	14:40	—	285.3	19,716	0.101	25.07	—
02/21/1979	15:10	—	278.6	21,516	0.081	25.07	Data logger 1 minute and 17 seconds fast, was not reset.
02/21/1979	15:35	—	274.0	23,016	0.068	25.05	
02/21/1979	16:00	—	270.1	24,516	0.057	25.04	Data logger 1 minute and 20 seconds fast was not reset.
02/21/1979	17:00	—	263.2	28,116	0.038	25.03	
02/21/1979	18:00	—	259.1	31,716	0.026	25.04	—
02/21/1979	19:00	—	256.1	35,316	0.017	25.06	—
02/21/1979	20:00	—	254.1	38,916	0.012	25.07	—
02/21/1979	21:00	—	252.5	42,516	0.007	25.07	—
02/21/1979	22:00	—	251.4	46,116	0.004	25.06	—
02/21/1979	23:00	—	250.6	49,716	0.002	25.06	—
02/22/1979	0:00	—	250.3	53,316	0.001	25.07	—
02/22/1979	1:00	—	250.0	56,916	0.000	25.06	—
02/22/1979	2:00	—	249.7	60,516	—	25.06	—
02/22/1979	3:00	—	249.6	64,116	—	25.06	—
02/22/1979	4:00	—	249.5	—	—	25.05	—
02/22/1979	5:00	—	249.5	—	—	25.05	—
02/22/1979	6:00	—	249.4	—	—	25.09	—
02/22/1979	7:00	—	249.2	—	—	25.10	—
02/22/1979	8:00	—	248.2	—	—	25.12	Manometer reads measured pressure, in feet of water = 247.8 feet. Measurement rod pulled from tubing at 8:22.

Table 16. Data from swabbing test 1 performed on the Culebra Dolomite Member in well H–2B.

Test start date:	02/22/1979	Test end date:	02/22/1979
Hole depth:	661 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0–611 feet	Interval tested:	611–661 feet
Diameter of tested interval:	4.75 inches		

Static water level, on February 18, 1979, was 350.08 feet below land surface.

Table 16. Data from swabbing test 1 performed on the Culebra Dolomite Member in well H-2B.—Continued

Date	Clock time, HH:MM	Cumulative swabs of water removed	Water removed per swab, in gallons	Measured pressure, in feet of water	Time elapsed since start of swabbing test, in minutes (') and seconds (")	Time elapsed since swabbing began, in minutes (t)	Time elapsed since swabbing stopped, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/22/1979	9:00	1	11.51	—	—	—	—	—	—	0.94 feet
02/22/1979	9:04	2	2.90	—	—	—	—	—	—	of water
02/22/1979	9:04	—	—	—	0"	3.7	0	—	25.11	in tank
02/22/1979	—	—	—	-14.5	5"	—	—	45.40	25.11	prior to
02/22/1979	—	—	—	-14.0	10"	—	—	23.20	25.11	swab-
02/22/1979	—	—	—	-12.9	15"	—	—	15.80	25.11	bing
02/22/1979	—	—	—	-12.0	20"	—	—	12.10	25.11	(270.59
02/22/1979	—	—	—	-8.7	25"	—	—	9.88	25.11	gallons).
02/22/1979	—	—	—	-5.2	30"	—	—	8.40	25.11	—
02/22/1979	—	—	—	-3.6	35"	—	—	7.34	25.11	—
02/22/1979	—	—	—	-0.1	40"	—	—	6.55	25.11	—
02/22/1979	—	—	—	2.5	45"	—	—	5.93	25.11	—
02/22/1979	—	—	—	3.6	50"	—	—	5.44	25.11	—
02/22/1979	—	—	—	4.2	55"	—	—	5.04	25.11	—
02/22/1979	—	—	—	8.7	1'	—	—	4.70	25.11	—
02/22/1979	—	—	—	28.6	1' 10"	—	—	4.17	25.11	—
02/22/1979	—	—	—	41.3	1' 20"	—	—	3.78	25.11	—
02/22/1979	—	—	—	52.4	1' 30"	—	—	3.47	25.11	—
02/22/1979	—	—	—	62.3	1' 40"	—	—	3.22	25.11	—
02/22/1979	—	—	—	69.2	1' 50"	—	—	3.02	25.11	—
02/22/1979	—	—	—	73.1	2'	—	—	2.85	25.11	—
02/22/1979	—	—	—	80.0	2' 30"	—	—	2.48	25.11	—
02/22/1979	—	—	—	82.1	3'	—	—	2.23	25.11	—
02/22/1979	—	—	—	83.6	3' 30"	—	—	2.06	25.11	—
02/22/1979	—	—	—	85.0	4'	—	—	1.93	25.11	—
02/22/1979	—	—	—	85.7	4' 30"	—	—	1.82	25.11	—
02/22/1979	—	—	—	86.7	5'	—	—	1.74	25.11	—
02/22/1979	—	—	—	88.6	6'	—	—	1.62	25.11	—
02/22/1979	—	—	—	90.3	7'	—	—	1.53	25.11	—
02/22/1979	—	—	—	91.9	8'	—	—	1.46	25.11	—
02/22/1979	—	—	—	93.4	9'	—	—	1.41	25.11	—
02/22/1979	—	—	—	94.8	10'	—	—	1.37	25.11	—
02/22/1979	—	—	—	97.4	12'	—	—	1.31	25.11	—
02/22/1979	—	—	—	101.3	15'	—	—	1.25	25.11	—
02/22/1979	—	—	—	107.0	20'	—	—	1.19	25.11	—
02/22/1979	—	—	—	112.2	25'	—	—	1.15	25.11	—

Table 16. Data from swabbing test 1 performed on the Culebra Dolomite Member in well H–2B.—Continued

Date	Clock time, HH:MM	Cumulative swabs of water removed	Water removed per swab, in gallons	Measured pressure, in feet of water	Time elapsed since start of swabbing test, in minutes (') and seconds (")	Time elapsed since swabbing began, in minutes (t)	Time elapsed since swabbing stopped, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/22/1979	—	—	—	117.1	30'	—	—	1.12	25.11	—
02/22/1979	—	—	—	121.9	35'	—	—	1.11	25.11	—
02/22/1979	—	—	—	126.3	40'	—	—	1.09	25.11	—
02/22/1979	—	—	—	134.6	50'	—	—	1.07	25.11	—
02/22/1979	—	—	—	142.0	60'	—	—	1.06	25.11	—
02/22/1979	—	—	—	149.0	70'	—	—	1.05	25.11	—
02/22/1979	—	—	—	155.4	80'	—	—	1.05	25.11	—
02/22/1979	—	—	—	161.4	90'	—	—	1.04	25.11	—
02/22/1979	—	—	—	166.7	100'	—	—	1.04	25.11	—
02/22/1979	—	—	—	171.6	110'	—	—	1.03	25.11	—
02/22/1979	—	—	—	176.1	120'	—	—	1.03	25.11	—
02/22/1979	—	—	—	180.4	130'	—	—	1.03	25.11	—
02/22/1979	—	—	—	184.4	140'	—	—	1.03	25.1	—
02/22/1979	—	—	—	188.2	150'	—	—	1.02	25.1	Pull packer.

Table 17. Data from bailing test 1 performed on the Culebra Dolomite Member in well H–2C.

Test start date:	03/15/1979	Test end date:	03/15/1979
Hole depth:	795 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0–742 feet	Bailer capacity:	10.65 gallons
Interval tested:	624–652 feet	Tank volume:	—
Inner diameter of tested interval:	5.921 inches	Transducer depth:	567 feet

Static water level, on February 26, 1979, was 351.43 feet below land surface.

Table 17. Data from bailing test 1 performed on the Culebra Dolomite Member in well H-2C.—Continued

Date	Clock time, HH:MM:SS	Cumulative bailers of water removed	Depth of water in tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes	Time elapsed since bailing stopped, in minutes	t/t'	Remarks
03/15/1979	10:20:00	1	—	—	—	—	—	0.9 feet of water in tank prior to bailing.
03/15/1979	10:27:00	2	—	—	—	—	—	—
03/15/1979	10:29:00	3	—	—	—	—	—	—
03/15/1979	10:30:00	4	—	—	—	—	—	—
03/15/1979	10:31:00	5	1.09	—	—	—	—	—
03/15/1979	10:33:00	6	—	—	—	—	—	—
03/15/1979	10:34:00	7	—	—	—	—	—	—
03/15/1979	10:35:00	8	—	—	—	—	—	—
03/15/1979	10:36:00	9	—	—	—	—	—	—
03/15/1979	10:38:00	10	—	—	—	—	—	Density = 1.023 grams per cubic centimeter.
03/15/1979	10:40:00	11	1.26	—	—	—	—	—
03/15/1979	10:41:00	12	—	—	—	—	—	—
03/15/1979	10:42:00	13	—	—	—	—	—	—
03/15/1979	10:44:00	14	—	—	—	—	—	—
03/15/1979	10:46:00	15	1.44	—	—	—	—	—
03/15/1979	10:49:00	16	—	—	—	—	—	—
03/15/1979	10:50:00	17	—	—	—	—	—	—
03/15/1979	10:52:00	18	—	—	—	—	—	—
03/15/1979	10:54:00	19	—	—	—	—	—	—
03/15/1979	10:56:00	20	1.65	—	—	—	—	Density = 1.024 grams per cubic centimeter.
03/15/1979	10:57:00	21	—	—	—	—	—	—
03/15/1979	11:00:00	22	—	—	—	—	—	—
03/15/1979	11:01:00	23	—	—	—	—	—	—
03/15/1979	11:02:00	24	—	—	—	—	—	—
03/15/1979	11:04:00	25	1.85	—	—	—	—	—
03/15/1979	11:06:00	26	—	—	—	—	—	—
03/15/1979	11:08:00	27	—	—	—	—	—	—
03/15/1979	11:09:00	28	—	—	—	—	—	—
03/15/1979	11:11:00	29	2.00	—	—	—	—	Density = 1.022 grams per cubic centimeter.
03/15/1979	11:22:00	—	—	—	62.00	11.00	—	—
03/15/1979	11:22:10	—	—	0.5	62.17	11.17	5.57	Transducer set at 567 feet, 0.5 feet into water.
03/15/1979	11:22:30	—	—	1	—	11.50	5.43	—
03/15/1979	11:22:45	—	—	1.3	—	11.75	5.34	—
03/15/1979	11:23:00	—	—	1.7	—	12.00	5.25	—
03/15/1979	11:23:15	—	—	1.8	—	12.25	5.16	—
03/15/1979	11:23:30	—	—	1.9	—	12.50	5.08	—
03/15/1979	11:23:45	—	—	2	—	12.75	5	—
03/15/1979	11:24:00	—	—	2.1	—	13.00	4.92	—

Table 17. Data from bailing test 1 performed on the Culebra Dolomite Member in well H–2C.—Continued

Date	Clock time, HH:MM:SS	Cumulative bailers of water removed	Depth of water in tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes	Time elapsed since bailing stopped, in minutes	t/t'	Remarks
03/15/1979	11:24:30	—	—	2.3	—	13.50	4.78	—
03/15/1979	11:25:00	—	—	2.5	—	14.00	4.64	—
03/15/1979	11:25:30	—	—	2.7	—	14.50	4.52	—
03/15/1979	11:26:00	—	—	2.9	—	15.00	4.4	—
03/15/1979	11:27:00	—	—	3.3	—	16.00	4.19	—
03/15/1979	11:28:00	—	—	3.6	—	17.00	4	—
03/15/1979	11:30:00	—	—	4.4	—	19.00	3.68	—
03/15/1979	11:35:00	—	—	—	—	24.00	3.13	—
03/15/1979	11:40:00	—	—	8.2	—	29.00	2.76	—
03/15/1979	11:45:00	—	—	10.1	—	34.00	2.5	—
03/15/1979	11:50:00	—	—	11.9	—	39.00	2.31	—
03/15/1979	11:55:00	—	—	13.9	—	44.00	2.16	—
03/15/1979	12:00:00	—	—	15.7	—	49.00	2.04	—
03/15/1979	12:10:00	—	—	19.4	—	59.00	1.86	—
03/15/1979	12:20:00	—	—	23	—	69.00	1.74	—
03/15/1979	12:30:00	—	—	26.6	—	79.00	1.65	—
03/15/1979	12:40:00	—	—	29.7	—	89.00	1.57	—
03/15/1979	12:50:00	—	—	33	—	99.00	1.52	—
03/15/1979	13:00:00	—	—	36.2	—	109.00	1.47	—
03/15/1979	13:10:00	—	—	39.4	—	119.00	1.43	—
03/15/1979	13:30:00	—	—	45.5	190.00	139.00	1.37	—

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Table 18. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H-2C.

Test start date:	03/15/1979	Test end date:	03/17/1979
Hole depth:	795 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0-742 feet	Packer type:	Production injection with feed through
Interval tested:	624-652 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	5.921 inches	Inner tubing diameter:	1.995 inches
Upper packer set depth:	607.77 feet	Transducer depth:	611.27 feet
Lower packer set depth:	734.93 feet	Pre-test inflow rate:	96.93 cubic feet per day
Shut in after:	Bailing		

Static water level, on February 26, 1979, was 351.43 feet below land surface.

Date	Clock time, HH:MM:SS	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure in inches of mercury	Remarks
03/15/1979	15:17:00	157.5	—	—	—	—	25.38	Pretest.
03/15/1979	15:23:00	158.6	—	—	—	—	25.38	Pretest.
03/15/1979	15:40:24	—	320.4	0	0.0	—	—	—
03/15/1979	—	204.8	—	5"	—	3,846.00	—	—
03/15/1979	—	201.6	—	10"	—	1,923.00	—	—
03/15/1979	—	203.8	—	15"	—	1,283.00	—	—
03/15/1979	—	203.1	—	20"	—	962.00	—	—
03/15/1979	—	203.0	—	25"	—	770.00	—	—
03/15/1979	—	202.4	—	30"	—	642.00	—	—
03/15/1979	—	202.6	—	35"	—	550.00	—	—
03/15/1979	—	203.0	—	40"	—	482.00	—	—
03/15/1979	—	203.5	—	45"	—	428.00	—	—
03/15/1979	—	204.0	—	50"	—	385.00	—	—
03/15/1979	—	204.5	—	55"	—	351.00	—	—
03/15/1979	—	205.5	—	1' 05"	—	297.00	—	—
03/15/1979	—	206.9	—	1' 20"	—	241.00	—	—
03/15/1979	—	208.0	—	1' 30"	—	215.00	—	—
03/15/1979	—	209.0	—	1' 40"	—	193.00	—	—

Table 18. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H–2C.—Continued

Date	Clock time, HH:MM:SS	Measured pressure, in feet of water	Time elapsed since bail-ing began, in minutes (t)	Time elapsed since shut-in test began in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure in inches of mercury	Remarks
03/15/1979	—	209.8	—	1' 50"	—	176.00	—	—
03/15/1979	—	210.7	—	2'	—	161.00	—	—
03/15/1979	—	211.8	—	2' 15"	—	143.00	—	—
03/15/1979	—	213.0	—	2' 30"	—	129.00	—	—
03/15/1979	—	214.3	—	2' 45"	—	118.00	—	—
03/15/1979	—	215.2	—	3'	—	108.00	25.38	—
03/15/1979	—	217.0	—	3' 30"	—	92.50	25.38	—
03/15/1979	—	218.6	—	4'	—	81.10	25.38	—
03/15/1979	—	220.0	—	4' 30"	—	72.20	25.38	—
03/15/1979	—	221.3	—	5'	—	65.10	25.38	—
03/15/1979	—	222.5	—	5' 30"	—	59.20	25.38	—
03/15/1979	—	223.6	—	6'	—	54.40	25.38	—
03/15/1979	—	225.6	—	7'	—	46.80	25.38	—
03/15/1979	—	227.3	—	8'	—	41.00	25.38	—
03/15/1979	—	230.2	—	10'	—	33.00	25.37	—
03/15/1979	—	232.5	—	12'	—	27.70	25.37	—
03/15/1979	—	235.3	—	15'	—	22.40	25.37	—
03/15/1979	—	236.8	—	17'	—	19.80	25.37	—
03/15/1979	16:00:24	238.8	—	20'	—	17.00	25.37	—
03/15/1979	—	241.3	—	25'	—	13.80	25.37	—
03/15/1979	—	243.2	—	30'	—	11.70	25.37	—
03/15/1979	—	244.8	—	35'	—	10.20	25.37	—
03/15/1979	—	246.1	—	40'	—	9.01	25.37	—
03/15/1979	—	247.2	—	45'	—	8.12	25.37	—
03/15/1979	—	248.2	—	50'	—	7.41	25.37	—
03/15/1979	—	249.0	—	55'	—	6.83	25.37	—
03/15/1979	—	249.8	—	60'	—	6.34	25.37	—
03/15/1979	—	250.5	—	65'	—	5.93	25.37	—
03/15/1979	—	251.2	—	70'	—	5.58	25.37	—
03/15/1979	—	252.3	400.4	80'	80.0	5.00	25.37	—
03/15/1979	—	253.3	—	90	—	4.56	25.37	—
03/15/1979	—	254.2	—	100'	—	4.20	25.37	—
03/15/1979	—	255.7	—	120	—	3.67	25.37	—
03/15/1979	17:47:21	—	—	127'	—	3.52	—	—
03/15/1979	—	257.4	—	150'	—	3.14	25.37	—
03/15/1979	—	258.7	—	180'	—	2.78	—	—

Table 18. Data from shut-in test 1 performed on the Culebra Dolomite Member in well H-2C.—Continued

Date	Clock time, HH:MM:SS	Measured pressure, in feet of water	Time elapsed since bail- ing began, in minutes (t)	Time elapsed since shut-in test began in minutes (') and seconds (") (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure in inches of mercury	Remarks
03/15/1979	—	259.7	—	210'	—	2.53	—	—
03/15/1979	—	260.4	—	240'	—	2.33	—	—
03/15/1979	—	260.9	—	270'	—	2.19	—	—
03/15/1979	—	261.7	—	300'	—	2.07	—	—
03/15/1979	—	262.2	—	330'	—	1.97	—	—
03/15/1979	—	262.6	—	360'	—	1.89	—	—
03/15/1979	—	263.0	—	390'	—	1.82	—	—
03/15/1979	—	263.5	—	420'	—	1.76	—	—
03/15/1979	—	263.4	—	450'	—	1.71	—	—
03/15/1979	—	263.9	—	480'	—	1.67	—	—
03/15/1979	—	264.2	—	510'	—	1.63	—	—
03/15/1979	—	264.5	—	540'	—	1.59	—	—
03/15/1979	—	264.6	—	570'	—	1.56	—	—
03/15/1979	—	265.0	—	600'	—	1.53	—	—
03/15/1979	—	265.1	—	630'	—	1.51	—	—
03/15/1979	—	265.2	—	660'	—	1.49	—	—
03/15/1979	—	265.2	1,010.4	690'	690.0	1.46	—	—
03/15/1979	—	265.3	—	720'	—	1.45	—	—
03/15/1979	—	265.6	—	750'	—	1.43	—	—
03/15/1979	—	265.7	—	780'	—	1.41	—	—
03/15/1979	—	265.9	—	810'	—	1.40	—	—
03/15/1979	—	265.7	—	840'	—	1.38	—	—
03/15/1979	—	265.8	—	870'	—	1.37	—	—
03/15/1979	—	265.7	—	900'	—	1.36	—	—
03/15/1979	—	265.8	—	930'	—	1.34	—	—
03/15/1979	—	265.8	—	960'	—	1.33	—	—
03/16/1979	8:10:24	265.8	—	990'	990.0	1.32	—	—
03/16/1979	9:00:00	265.8	1,360.0	—	1,039.6	1.31	25.31	—
03/16/1979	15:10:00	264.8	—	—	—	1.23	25.19	—
03/17/1979	8:50:00	265.3	—	—	2,469.6	1.13	25.18	—
03/17/1979	12:00:00	262.3	—	—	—	1.12	25.04	—
03/17/1979	13:00:00	261.6	—	—	—	1.12	25.01	—
03/17/1979	14:30:00	262.3	—	—	—	1.11	24.97	—
03/17/1979	15:00:00	262.5	—	—	—	1.11	24.97	—
03/17/1979	15:30:00	262.3	3,190.0	—	2,869.6	1.11	24.95	—

Table 19. Data from slug test 1 performed on the Culebra Dolomite Member in well H–2C.

Test start date:	03/17/1979	Test end date:	03/19/1979
Hole depth:	795 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0–742 feet	Packer type:	Production injection with feed through
Interval tested:	624–652 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Inner tubing diameter:	1.995 inches
Upper packer set depth:	607.77 feet	Transducer depth:	611.27 feet
Lower packer set depth:	734.93 feet		

Static water level, on February 26, 1979, was 351.43 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the slug test, in feet.

Authors note: Reported value of diameter of tested interval does not agree with diameters reported for the same tested interval in shut-in test 1 and bailing test 1 performed on the Culebra Dolomite Member.

Date	Clock time, HH:MM SS	Measured pressure, in feet of water	Time elapsed since start of slug test, in minutes (') and seconds (")	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/17/1979	15:50:00	262.2	—	—	—	24.94	Pretest
03/17/1979	15:51:20	—	0"	—	—	—	Tubing filled. Full height = 611.27
03/17/1979	—	633.4	5"	5	0.991	24.94	—
03/17/1979	—	636.7	10"	10	1.000	24.94	$H_0 = 636.7 \text{ feet} - 262.2 \text{ feet} = 374.5 \text{ feet.}$
03/17/1979	—	636.0	15"	15	0.998	24.94	—
03/17/1979	—	635.0	20"	20	0.995	24.94	H = measured pressure, in feet of water
03/17/1979	—	634.5	25"	25	0.994	24.94	minus 262.2 feet.
03/17/1979	—	633.6	30"	30	0.992	24.94	—
03/17/1979	—	632.9	35"	35	0.990	24.94	—
03/17/1979	—	632.2	40"	40	0.988	24.94	—
03/17/1979	—	631.6	45"	45	0.986	24.94	—
03/17/1979	—	630.8	50"	50	0.984	24.94	—
03/17/1979	—	630.1	55"	55	0.982	24.94	—
03/17/1979	—	629.6	60"	60	0.981	24.94	—
03/17/1979	—	628.2	70"	70	0.977	24.94	—
03/17/1979	—	627.1	80"	80	0.974	24.94	—

Table 19. Data from slug test 1 performed on the Culebra Dolomite Member in well H-2C.—Continued

Date	Clock time, HH:MM SS	Measured pressure, in feet of water	Time elapsed since start of slug test, in minutes (') and seconds ('')	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/17/1979	—	625.9	90''	90	0.971	24.94	—
03/17/1979	—	624.7	100''	100	0.968	24.94	—
03/17/1979	—	623.6	110''	110	0.965	24.94	—
03/17/1979	—	622.5	120''	120	0.962	24.94	—
03/17/1979	—	621.4	130''	130	0.959	24.94	—
03/17/1979	—	620.4	140''	140	0.956	24.94	—
03/17/1979	—	619.4	150''	150	0.954	24.94	—
03/17/1979	—	618.1	160''	160	0.950	24.94	—
03/17/1979	—	617.2	170''	170	0.948	24.94	—
03/17/1979	—	616.2	180''	180	0.945	24.94	—
03/17/1979	—	613.1	210''	210	0.937	24.94	—
03/17/1979	—	610.2	240''	240	0.929	24.94	—
03/17/1979	—	607.4	270''	270	0.922	24.94	—
03/17/1979	—	604.6	5'	300	0.914	24.94	—
03/17/1979	—	599.4	6'	360	0.900	24.94	—
03/17/1979	—	594.5	7'	420	0.887	24.94	—
03/17/1979	—	589.6	8'	480	0.874	24.94	—
03/17/1979	—	584.9	9'	540	0.862	24.94	—
03/17/1979	—	580.4	10'	600	0.850	24.94	—
03/17/1979	—	571.6	12'	720	0.826	24.94	—
03/17/1979	—	559.3	15'	900	0.793	24.93	—
03/17/1979	—	551.2	17'	1,020	0.772	24.93	—
03/17/1979	—	540.3	20'	1,200	0.743	24.93	—
03/17/1979	—	523.3	25'	1,500	0.697	24.93	—
03/17/1979	—	508.0	30	1,800	0.656	24.93	—
03/17/1979	—	493.5	35'	2,100	0.618	24.93	—
03/17/1979	—	479.6	40'	2,400	0.581	24.93	—
03/17/1979	—	466.9	45'	2,700	0.547	24.93	—
03/17/1979	—	455.3	50'	3,000	0.516	24.92	—
03/17/1979	—	434.9	60'	3,600	0.461	24.92	—
03/17/1979	—	417.2	70'	4,200	0.414	24.92	—
03/17/1979	—	401.5	80'	4,800	0.372	24.92	—
03/17/1979	—	387.4	90'	5,400	0.334	24.92	—
03/17/1979	—	374.7	100'	6,000	0.300	24.92	—
03/17/1979	—	354.0	120'	7,200	0.245	24.92	—
03/17/1979	18:21:20	330.7	150'	9,000	0.183	24.94	—
03/17/1979	19:00:00	310.0	—	11,320	0.128	—	—
03/17/1979	20:00:00	291.1	—	14,920	0.077	—	—

Table 19. Data from slug test 1 performed on the Culebra Dolomite Member in well H–2C.—Continued

Date	Clock time, HH:MM SS	Measured pressure, in feet of water	Time elapsed since start of slug test, in minutes (') and seconds (")	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/17/1979	21:00:00	281.4	—	18,520	0.051	—	—
03/17/1979	22:00:00	276.0	—	22,120	0.037	—	—
03/17/1979	23:00:00	273.3	—	25,720	0.030	—	—
03/17/1979	0:00:00	271.9	—	29,320	0.026	—	—
03/18/1979	1:00:00	270.9	—	32,920	0.023	—	—
03/18/1979	2:00:00	270.4	—	36,520	0.022	—	—
03/18/1979	3:00:00	270.0	—	40,120	0.021	—	—
03/18/1979	4:00:00	269.5	—	43,720	0.019	—	—
03/18/1979	5:00:00	269.1	—	47,320	0.018	—	—
03/18/1979	6:00:00	269.0	—	50,920	0.018	—	—
03/18/1979	7:00:00	267.7	—	54,520	0.015	—	—
03/18/1979	8:00:00	266.2	—	58,120	0.011	—	—
03/18/1979	9:00:00	265.0	—	61,720	0.007	—	—
03/18/1979	10:00:00	264.4	—	65,320	0.008	25.11	—
03/18/1979	11:00:00	264.2	—	68,920	0.005	25.11	—
03/18/1979	12:00:00	263.5	—	72,520	0.003	25.09	—
03/19/1979	8:00:00	264.0	—	1,444,520	0.005	25.13	—

Table 20. Data from shut-in test 1 performed on the Rustler-Salado contact zone in well H–2C.

Test start date:	02/27/1979	Test end date:	03/02/1979
Hole depth:	795 feet	Geologic unit tested:	Rustler/Salado contact zone
Cased interval:	0–742 feet	Packer type:	Production injection with feed through
Interval tested:	742–795 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Tubing diameter:	—
Packer set depth:	—	Transducer depth:	738.55 feet
Shut in after:	Bailing	Pre-test inflow rate:	1.33 cubic feet per day

Static water level, on February 14, 1979, was 343.48 feet below land surface.

Table 20. Data from shut-in test 1 performed on the Rustler-Salado contact zone in well H-2C.—Continued

Date	Clock time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since bailing began, in seconds (t)	Time elapsed since bailing began, in minutes (t)	Elapsed time since shut-in test began, in seconds (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/27/1979	13:48	—	55.4	—	—	—	—	—	24.98	Pretest.
02/27/1979	14:08	—	74.7	—	—	—	—	—	24.98	Pretest.
02/27/1979	14:09	0"	—	—	—	0	—	—	24.98	—
02/27/1979	—	5"	77.6	15,185	—	5	—	3,034.00	24.98	—
02/27/1979	—	10"	77.7	15,190	—	10	—	1,517.00	24.98	—
02/27/1979	—	15"	77.7	15,195	—	15	—	1,012.00	24.98	—
02/27/1979	—	20"	—	15,200	—	20	—	759.00	24.98	—
02/27/1979	—	25"	78.1	15,205	—	25	—	608.00	24.98	—
02/27/1979	—	30"	78.4	15,210	—	30	—	506.00	24.98	—
02/27/1979	—	35"	78.3	15,215	—	—	—	434.00	24.98	—
02/27/1979	—	40"	78.3	15,220	—	—	—	380.00	24.98	—
02/27/1979	—	45"	78.0	15,225	—	—	—	338.00	24.98	—
02/27/1979	—	50"	—	15,230	—	—	—	304.00	24.98	—
02/27/1979	—	55"	—	15,235	—	—	—	277.00	24.98	—
02/27/1979	—	1'	—	15,240	—	—	—	254.00	24.98	—
02/27/1979	—	1' 10"	—	15,250	—	—	—	218.00	24.98	—
02/27/1979	—	1' 20"	77.9	15,260	—	—	—	191.00	24.98	—
02/27/1979	—	1' 30"	77.9	15,270	—	—	—	169.00	24.98	—
02/27/1979	—	1' 40"	77.8	15,280	—	—	—	153.00	24.98	—
02/27/1979	—	1' 50"	77.8	15,290	—	—	—	139.00	24.98	—
02/27/1979	—	2'	77.8	15,300	—	—	—	128.00	24.98	—
02/27/1979	—	2' 20"	77.8	15,320	—	—	—	109.00	24.98	—
02/27/1979	—	2' 40"	77.6	—	255.38	—	—	95.80	24.98	—
02/27/1979	—	3'	78.1	—	255.72	—	—	85.20	24.98	—
02/27/1979	—	3' 30"	78.1	15,390	—	—	—	73.20	24.98	—
02/27/1979	—	4'	78.0	15,420	—	—	—	64.20	24.98	—
02/27/1979	—	4' 30"	78.0	15,450	—	—	—	57.20	24.98	—
02/27/1979	—	5'	78.0	15,480	—	—	—	51.50	24.98	—
02/27/1979	—	6'	78.0	—	259.00	—	—	43.10	24.99	—
02/27/1979	—	7'	78.1	—	260.00	—	—	37.10	24.99	—
02/27/1979	—	9'	78.0	—	262.00	—	—	29.10	24.99	—
02/27/1979	—	10'	78.0	—	263.00	—	—	26.30	24.98	—
02/27/1979	—	12'	78.1	—	265.00	—	—	22.10	24.98	—
02/27/1979	—	15'	78.3	—	268.00	—	—	17.80	24.98	—
02/27/1979	—	17'	78.4	—	270.00	—	—	15.90	24.98	—
02/27/1979	—	20'	78.6	—	273.00	—	—	13.60	24.98	—

Table 20. Data from shut-in test 1 performed on the Rustler-Salado contact zone in well H-2C.—Continued

Date	Clock time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since bailing began, in seconds (t)	Time elapsed since bailing began, in minutes (t)	Elapsed time since shut-in test began, in seconds (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/27/1979	—	25'	79.0	—	278.00	—	—	11.10	24.98	—
02/27/1979	—	30'	79.3	—	283.00	—	—	9.42	24.98	—
02/27/1979	—	35'	79.8	—	288.00	—	—	8.22	24.98	—
02/27/1979	—	40'	80.3	—	293.00	—	—	7.32	24.98	—
02/27/1979	—	45'	80.8	—	298.00	—	—	6.62	24.98	—
02/27/1979	—	50'	81.3	—	303.00	—	—	6.05	24.98	—
02/27/1979	—	55'	81.8	—	308.00	—	—	5.59	24.98	—
02/27/1979	15:09	60'	82.3	—	313.00	—	—	5.21	24.98	—
02/27/1979	—	65'	82.8	—	318.00	—	—	4.89	24.98	—
02/27/1979	15:19	70'	83.3	—	322.72	—	70.00	4.61	24.99	—
02/27/1979	15:20	—	83.4	—	324.00	—	71.28	4.55	25.02	—
02/27/1979	15:30	81'	84.7	—	334.00	—	81.28	4.11	25.02	—
02/27/1979	15:40	91'	85.7	—	344.00	—	—	3.77	25.02	—
02/27/1979	15:50	101'	86.9	—	354.00	—	—	3.50	25.02	—
02/27/1979	16:20	131'	90.1	—	384.00	—	—	2.92	25.03	—
02/27/1979	16:30	141'	91.3	—	394.00	—	—	2.79	25.04	—
02/27/1979	16:40	151'	92.3	—	404.00	—	—	2.67	25.05	—
02/27/1979	16:50	161'	93.0	—	414.00	—	—	2.57	25.05	—
02/27/1979	17:00	171'	94.1	—	424.00	—	—	2.48	25.05	—
02/27/1979	17:10	181'	95.1	—	434.00	—	—	2.39	25.06	—
02/27/1979	17:20	191'	96.2	—	444.00	—	—	2.32	25.07	—
02/27/1979	17:30	201'	97.4	—	454.00	—	—	2.26	25.07	—
02/27/1979	17:40	211'	98.3	—	464.00	—	—	2.20	25.08	—
02/27/1979	17:50	221'	99.6	—	474.00	—	—	2.14	25.09	—
02/27/1979	18:00	231'	100.6	—	484.00	—	—	2.09	25.10	—
02/27/1979	18:10	241'	101.5	—	494.00	—	—	2.05	25.11	—
02/27/1979	18:20	251'	102.6	—	504.00	—	—	2.01	25.13	—
02/27/1979	18:30	261'	103.5	—	514.00	—	—	1.97	25.12	—
02/27/1979	18:40	271'	104.5	—	524.00	—	—	1.93	25.13	—
02/27/1979	18:50	281'	105.4	—	534.00	—	—	1.90	25.14	—
02/27/1979	19:00	291'	106.4	—	544.00	—	—	1.87	25.15	—
02/27/1979	19:10	301'	107.3	—	554.00	—	—	1.84	25.16	—
02/27/1979	19:20	311'	108.3	—	564.00	—	—	1.81	25.17	—
02/27/1979	19:30	321'	109.2	—	574.00	—	—	1.79	25.18	—
02/27/1979	19:40	331'	109.9	—	584.00	—	—	1.76	25.18	—
02/27/1979	19:50	341'	110.8	—	594.00	—	341.28	1.74	25.19	—

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Table 20. Data from shut-in test 1 performed on the Rustler-Salado contact zone in well H-2C.—Continued

Date	Clock time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since bailing began, in seconds (t)	Time elapsed since bailing began, in minutes (t)	Elapsed time since shut-in test began, in seconds (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/27/1979	20:00	351'	111.6	—	604.00	—	—	1.72	25.20	—
02/27/1979	20:10	361'	112.6	—	614.00	—	—	1.70	25.20	—
02/27/1979	20:20	371'	113.6	—	624.00	—	—	1.68	25.21	—
02/27/1979	20:30	381'	114.5	—	634.00	—	—	1.66	25.21	—
02/27/1979	20:40	391'	115.3	—	644.00	—	—	1.65	25.21	—
02/27/1979	20:50	401'	116.1	—	654.00	—	—	1.63	25.22	—
02/27/1979	21:00	411'	117.0	—	664.00	—	—	1.61	25.23	—
02/27/1979	21:10	421'	117.8	—	674.00	—	—	1.60	25.22	—
02/27/1979	21:20	431'	118.6	—	684.00	—	—	1.59	25.23	—
02/27/1979	21:30	441'	119.5	—	694.00	—	—	1.57	25.22	—
02/27/1979	21:40	451'	120.3	—	704.00	—	—	1.56	25.23	—
02/27/1979	21:50	461'	120.9	—	714.00	—	—	1.55	25.23	—
02/27/1979	22:00	471'	121.8	—	724.00	—	—	1.54	25.24	—
02/27/1979	22:10	481'	122.6	—	734.00	—	—	1.53	25.25	—
02/27/1979	22:20	491'	123.4	—	744.00	—	—	1.51	25.26	—
02/27/1979	22:30	501'	124.2	—	754.00	—	—	1.50	25.25	—
02/27/1979	22:40	511'	124.9	—	764.00	—	—	1.49	25.26	—
02/27/1979	22:50	521'	125.6	—	774.00	—	—	1.48	25.26	—
02/27/1979	23:00	531'	126.5	—	784.00	—	—	1.48	25.28	—
02/27/1979	23:10	541'	127.1	—	794.00	—	—	1.47	25.27	—
02/27/1979	23:20	551'	127.9	—	804.00	—	—	1.46	25.28	—
02/27/1979	23:30	561'	128.6	—	814.00	—	—	1.45	25.29	—
02/27/1979	23:40	571'	129.4	—	824.00	—	—	1.44	25.29	—
02/27/1979	23:50	581'	130.0	—	834.00	—	581.28	1.43	25.28	—
02/28/1979	0:00	591'	130.8	—	844.00	—	—	1.43	25.29	—
02/28/1979	0:10	601'	131.5	—	854.00	—	—	1.42	25.29	—
02/28/1979	0:20	611'	132.0	—	864.00	—	—	1.41	25.30	—
02/28/1979	0:30	621'	132.7	—	874.00	—	—	1.41	25.31	—
02/28/1979	0:40	631'	133.4	—	884.00	—	—	1.40	25.31	—
02/28/1979	0:50	641'	134.1	—	894.00	—	—	1.39	25.32	—
02/28/1979	1:00	651'	134.7	—	904.00	—	—	1.39	25.32	—
02/28/1979	1:10	661'	135.3	—	914.00	—	—	1.38	25.32	—
02/28/1979	1:20	671'	136.0	—	924.00	—	—	1.38	25.32	—
02/28/1979	1:30	681'	136.5	—	934.00	—	—	1.37	25.33	—
02/28/1979	1:40	691'	137.1	—	944.00	—	—	1.37	25.33	—
02/28/1979	1:50	701'	137.7	—	954.00	—	—	1.36	25.33	—

Table 20. Data from shut-in test 1 performed on the Rustler-Salado contact zone in well H–2C.—Continued

Date	Clock time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since bailing began, in seconds (t)	Time elapsed since bailing began, in minutes (t)	Elapsed time since shut-in test began, in seconds (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/28/1979	2:00	711'	138.2	—	964.00	—	—	1.36	25.34	—
02/28/1979	2:10	721'	138.9	—	974.00	—	—	1.35	25.35	—
02/28/1979	2:20	731'	139.4	—	984.00	—	—	1.35	25.35	—
02/28/1979	2:30	741'	139.9	—	994.00	—	—	1.34	25.35	—
02/28/1979	2:40	751'	140.5	—	1,004.00	—	—	1.34	25.35	—
02/28/1979	2:50	761'	141.1	—	1,014.00	—	—	1.33	25.35	—
02/28/1979	3:00	771'	141.7	—	1,024.00	—	—	1.33	25.36	—
02/28/1979	3:10	781'	142.1	—	1,034.00	—	—	1.32	25.36	—
02/28/1979	3:20	791'	142.7	—	1,044.00	—	—	1.32	25.36	—
02/28/1979	3:30	801'	143.2	—	1,054.00	—	—	1.32	25.36	—
02/28/1979	3:40	811'	143.8	—	1,064.00	—	—	1.31	25.37	—
02/28/1979	3:50	821'	144.3	—	1,074.00	—	821.28	1.31	25.37	—
02/28/1979	4:00	831'	144.8	—	1,084.00	—	—	1.30	25.37	—
02/28/1979	4:10	—	145.3	—	—	—	—	1.30	25.38	—
02/28/1979	4:20	—	145.8	—	—	—	—	1.30	25.38	—
02/28/1979	4:30	—	146.3	—	—	—	—	1.29	25.38	—
02/28/1979	4:40	—	146.7	—	—	—	—	1.29	25.39	—
02/28/1979	4:50	—	147.3	—	—	—	—	1.29	25.39	—
02/28/1979	5:00	891'	147.8	—	1,144.00	—	—	1.28	25.40	—
02/28/1979	5:10	—	148.2	—	—	—	—	1.28	25.40	—
02/28/1979	5:20	—	148.6	—	—	—	—	1.28	25.41	—
02/28/1979	5:30	—	149.1	—	—	—	—	1.27	25.41	—
02/28/1979	5:40	—	149.5	—	—	—	—	1.27	25.41	—
02/28/1979	5:50	941'	150.0	—	1,194.00	—	—	1.27	25.42	—
02/28/1979	6:00	951'	150.4	—	1,204.00	—	—	1.27	25.42	—
02/28/1979	6:10	—	150.9	—	1,214.00	—	—	1.26	25.42	—
02/28/1979	6:20	—	151.3	—	1,224.00	—	—	1.26	25.43	—
02/28/1979	6:30	—	151.7	—	1,234.00	—	—	1.26	25.43	—
02/28/1979	6:40	—	152.0	—	1,244.00	—	—	1.25	25.43	—
02/28/1979	6:50	—	152.2	—	1,254.00	—	—	1.25	25.43	—
02/28/1979	7:00	1,011'	152.4	—	1,264.00	—	—	1.25	25.44	—
02/28/1979	7:10	—	152.6	—	1,274.00	—	—	1.25	25.44	—
02/28/1979	7:20	—	152.7	—	1,284.00	—	—	1.25	25.44	—
02/28/1979	7:30	—	152.9	—	1,294.00	—	—	1.24	25.45	—
02/28/1979	7:40	—	153.3	—	1,304.00	—	—	1.24	25.46	—
02/28/1979	8:20	—	154.1	—	1,344.00	—	1,091.28	1.23	25.46	—

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Table 20. Data from shut-in test 1 performed on the Rustler-Salado contact zone in well H-2C.—Continued

Date	Clock time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since bailing began, in seconds (t)	Time elapsed since bailing began, in minutes (t)	Elapsed time since shut-in test began, in seconds (t')	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
02/28/1979	8:30	—	154.4	—	1,354.00	—	—	1.23	25.45	—
02/28/1979	8:40	—	154.7	—	1,367.00	—	—	1.23	25.44	—
02/28/1979	8:50	—	155.0	—	1,374.00	—	—	1.23	25.43	—
02/28/1979	9:00	1,131'	155.3	—	1,384.00	—	—	1.22	25.42	—
02/28/1979	10:00	1,191'	157.0	—	1,444.00	—	—	1.21	25.35	Pressure reading
02/28/1979	11:00	1,251'	158.2	—	1,504.00	—	—	1.20	25.27	on data logger
02/28/1979	12:00	1,311'	159.7	—	1,564.00	—	—	1.19	25.24	rezeroed.
02/28/1979	13:00	1,371'	161.3	—	1,624.00	—	—	1.18	25.19	—
02/28/1979	14:00	1,431'	162.7	—	1,684.00	—	—	1.18	25.16	—
02/28/1979	15:00	1,491'	164.4	—	1,744.00	—	—	1.17	25.14	—
02/28/1979	16:00	1,551'	165.9	—	1,804.00	—	—	1.16	25.13	—
02/28/1979	17:00	1,611'	167.6	—	1,864.00	—	—	1.16	25.14	—
02/28/1979	18:00	1,671'	169.1	—	1,924.00	—	—	1.15	25.16	—
02/28/1979	19:00	1,731'	170.4	—	1,984.00	—	—	1.15	25.18	—
02/28/1979	20:00	1,791'	171.5	—	2,044.00	—	—	1.14	25.21	—
02/28/1979	21:00	1,851'	172.5	—	2,104.00	—	—	1.14	25.23	—
03/01/1979	8:35	—	—	—	—	—	—	—	—	Generator failed. Generator re-started and data
03/01/1979	9:00	2,571'	180.1	—	2,824.00	—	—	1.10	25.22	logger reset.
03/01/1979	13:30	—	182.6	—	3,094.00	—	—	1.09	25.05	—
03/01/1979	14:15	—	183.3	—	3,139.00	—	—	1.09	25.06	Time reset on
03/01/1979	15:00	2,931'	183.5	—	3,184.00	—	—	1.09	24.98	data logger.
03/01/1979	16:00	2,991'	184.2	—	3,244.00	—	—	1.08	24.96	—
03/01/1979	17:00	3,051'	185.5	—	3,304.00	—	—	1.08	24.96	—
03/01/1979	18:00	3,111'	186.3	—	3,364.00	—	—	1.08	24.98	Time checked on
03/01/1979	19:00	—	187.0	—	—	—	—	1.08	24.99	data logger.
03/01/1979	20:00	3,231'	187.5	—	3,484.00	—	—	1.08	25.01	—
03/01/1979	21:00	—	188.0	—	—	—	—	1.08	25.02	—
03/01/1979	22:00	3,351'	188.6	—	3,604.00	—	—	1.08	25.03	—
03/01/1979	23:00	—	189.2	—	—	—	—	1.07	25.01	—
03/02/1979	0:00	3,471'	189.7	—	3,724.00	—	—	1.07	24.99	—
03/02/1979	1:00	—	190.1	—	—	—	—	1.07	24.98	—
03/02/1979	2:00	3,591'	190.6	—	3,844.00	—	—	1.07	24.96	—
03/02/1979	3:00	—	190.9	—	—	—	—	1.07	24.94	—
03/02/1979	4:00	3,711'	191.3	—	3,964.00	—	—	1.07	24.96	—
03/02/1979	5:00	—	191.7	—	—	—	—	1.07	24.96	—

Table 20. Data from shut-in test 1 performed on the Rustler-Salado contact zone in well H–2C.—Continued

Date	Clock time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since bailing began, in seconds (t)	Time elapsed since bailing began, in minutes (t')	Elapsed time since shut-in test began, in seconds (t'')	Time elapsed since shut-in test began, in minutes (t''')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/02/1979	6:00	3,831'	192.2	—	4,084.00	—	—	1.07	24.96	—
03/02/1979	8:00	3,951'	192.7	—	4,204.00	—	—	1.06	24.96	Time re-
03/02/1979	16:00	4,431'	194.6	—	4,684.00	—	—	1.06	—	set on data log- ger at 7:55.

Table 21. Data from slug test 1 performed on the Rustler/Salado contact zone in well H–2C.

Test start date:	03/03/1979	Test end date:	03/09/1979
Hole depth:	795 feet	Geologic unit tested:	Rustler/Salado contact zone
Interval tested:	742–795 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	4.75 inches	Inner tubing diameter:	1.995 inches
Packer set depth:	735.05 feet	Transducer depth:	738.55 feet

Static water level, on February 14, 1979, was 343.48 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the slug test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Date	Clock Time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since slug test began, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/03/1979	8:30	—	198.2	—	—	—	Pretest reading still rising, not yet stable.
03/03/1979	8:42	0"	—	—	—	—	—
03/03/1979	—	5"	350.0	—	—	—	—
03/03/1979	—	10"	326.9	—	—	—	—
03/03/1979	—	15"	329.0	—	—	—	Plug knocked out and cable pulled out of hole.
03/03/1979	—	20"	326.1	—	—	—	—
03/03/1979	—	25"	321.1	—	—	—	$H_0 = 312$ pounds per square inch minus 209 pounds per square inch = 103 pounds per square inch.
03/03/1979	—	30"	319.8	—	—	—	inch.

Table 21. Data from slug test 1 performed on the Rustler/Salado contact zone in well H-2C.—Continued

Date	Clock Time, HH:MM	Elapsed time in minutes (') and seconds('')	Measured pressure, in pounds per square inch	Time elapsed since slug test began, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/03/1979	—	35"	320.0	—	—	—	—
03/03/1979	—	40"	317.4	—	—	—	H = measured pressure, in pounds per square
03/03/1979	—	45"	318.4	—	—	—	inch minus 209 pounds per square inch.
03/03/1979	—	50"	318.4	—	—	—	—
03/03/1979	—	55"	313.3	—	—	—	—
03/03/1979	—	60"	314.2	—	—	—	—
03/03/1979	—	65"	312.6	—	—	—	—
03/03/1979	—	70"	312.6	—	—	—	—
03/03/1979	—	80"	309.3	—	—	—	—
03/03/1979	—	90"	308.1	—	—	—	—
03/03/1979	—	100"	307.0	—	—	—	—
03/03/1979	—	110"	311.0	—	—	—	—
03/03/1979	—	120"	306.7	—	—	—	—
03/03/1979	—	130"	307.9	—	—	—	—
03/03/1979	—	140"	311.4	—	—	—	—
03/03/1979	—	150"	311.5	—	—	—	—
03/03/1979	—	180"	311.6	180	0.996	—	Stable readings beginning at 180 seconds.
03/03/1979	—	210"	311.7	210	0.997	—	—
03/03/1979	—	240"	311.7	240	0.997	—	—
03/03/1979	—	270"	311.7	270	0.997	—	—
03/03/1979	—	5'	311.7	300	0.997	—	—
03/03/1979	—	5' 30"	311.7	330	0.997	—	—
03/03/1979	—	6'	311.7	360	0.997	—	—
03/03/1979	—	7'	311.6	420	0.997	—	—
03/03/1979	—	8'	311.7	480	0.997	—	—
03/03/1979	—	9'	311.7	540	0.997	—	—
03/03/1979	—	10'	311.7	600	0.997	—	—
03/03/1979	—	11'	311.6	660	0.996	—	—
03/03/1979	—	12'	311.6	720	0.996	—	—
03/03/1979	—	13'	311.6	780	0.996	—	—
03/03/1979	—	14'	311.6	840	0.996	—	—
03/03/1979	—	15'	311.6	900	0.996	—	—
03/03/1979	—	17'	311.6	1,020	0.996	—	—
03/03/1979	—	20'	311.6	1,200	0.996	—	—
03/03/1979	—	25'	311.3	1,500	0.993	—	—
03/03/1979	—	30'	311.3	1,800	0.993	—	—
03/03/1979	—	35'	311.3	2,100	0.993	—	—
03/03/1979	—	40'	311.3	2,400	0.993	—	—

Table 21. Data from slug test 1 performed on the Rustler/Salado contact zone in well H–2C.—Continued

Date	Clock Time, HH:MM	Elapsed time in minutes (') and seconds('')	Measured pressure, in pounds per square inch	Time elapsed since slug test began, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/03/1979	—	45'	311.3	2,700	0.993	—	—
03/03/1979	—	50'	311.2	3,000	0.992	—	—
03/03/1979	—	55'	311.2	3,300	0.992	—	—
03/03/1979	—	60'	311.2	3,600	0.992	—	—
03/03/1979	—	70'	311.2	4,200	0.992	—	—
03/03/1979	—	80'	311.1	4,800	0.991	—	—
03/03/1979	10:12	90'	311.0	5,400	0.990	—	—
03/03/1979	—	100'	310.9	6,000	0.989	—	—
03/03/1979	—	110'	310.8	6,600	0.988	—	—
03/03/1979	10:42	120'	310.7	7,200	0.987	—	—
03/03/1979	11:12	150'	310.3	9,000	0.983	—	—
03/03/1979	11:42	180'	309.6	10,800	0.977	—	—
03/03/1979	12:15	—	308.9	12,775	0.970	—	—
03/03/1979	12:45	—	308.6	14,575	0.967	—	—
03/03/1979	13:15	—	308.4	16,375	0.965	—	—
03/03/1979	13:45	—	308.2	18,175	0.963	—	—
03/03/1979	15:00	—	308.0	22,675	0.961	—	—
03/03/1979	16:00	—	307.0	26,275	0.951	—	—
03/03/1979	17:00	—	307.5	29,875	0.956	—	—
03/03/1979	18:00	—	308.1	33,475	0.962	—	—
03/03/1979	21:00	—	307.9	44,275	0.960	—	—
03/03/1979	23:45	—	306.7	54,175	0.949	—	—
03/04/1979	8:15	—	301.9	84,775	0.902	—	—
03/04/1979	10:00	—	299.5	91,075	0.879	—	—
03/04/1979	11:30	—	298.3	96,475	0.867	—	—
03/04/1979	12:00	—	298.0	98,275	0.864	—	—
03/04/1979	13:00	—	297.2	101,875	0.856	—	—
03/04/1979	14:00	—	297.8	105,475	0.862	—	—
03/04/1979	19:30	—	299.4	125,275	0.878	—	—
03/05/1979	7:40	—	290.4	169,075	0.790	—	—
03/05/1979	10:35	—	287.4	179,575	0.761	—	—
03/05/1979	12:35	—	286.0	186,775	0.748	—	—
03/05/1979	13:25	—	285.8	189,775	0.746	—	—
03/05/1979	14:10	—	285.8	192,475	0.746	—	—
03/06/1979	7:50	—	282.6	256,075	0.715	—	—
03/06/1979	9:14	—	280.2	261,115	0.691	—	—
03/06/1979	12:45	—	279.0	273,775	0.680	—	—
03/06/1979	14:45	—	279.0	280,975	0.680	—	—

Table 21. Data from slug test 1 performed on the Rustler/Salado contact zone in well H-2C.—Continued

Date	Clock Time, HH:MM	Elapsed time in minutes (') and seconds (")	Measured pressure, in pounds per square inch	Time elapsed since slug test began, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
03/07/1979	7:55	—	275.4	342,775	0.645	—	—
03/07/1979	10:20	—	273.8	351,475	0.629	—	—
03/07/1979	13:15	—	273.0	361,975	0.621	—	—
03/08/1979	8:35	—	268.7	431,575	0.580	—	—
03/08/1979	11:15	—	267.2	441,175	0.565	—	—
03/08/1979	13:40	—	267.2	449,875	0.565	—	—
03/09/1979	8:20	—	266.0	517,075	0.553	—	—
03/09/1979	10:00	—	265.0	523,075	0.544	—	—

Table 22. Data from swabbing test 1 performed on the Rustler/Salado contact zone in well H-2C.

Test start date:	03/10/1979	Test end date:	03/14/1979
Hole depth:	—	Geologic unit tested:	Rustler/Salado contact zone
Cased interval:	—	Interval tested:	—
Diameter of tested interval:	4.75 inches	Tank volume:	287.9 gallons per foot

Static water level, on February 14, 1979, was 343.48 feet below land surface.

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since start of swabbing test in minutes (') and seconds (")	Time elapsed since swabbing began, in minutes (t)	Time elapsed since swabbing stopped, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/10/1979	09:33	—	0"	47.95	0.00	—	—	Depth of water in tank prior to swabbing was 0.82 feet.
03/10/1979	—	-7.3	5"	—	—	576.00	—	—
03/10/1979	—	-7.0	10"	—	—	289.00	—	—
03/10/1979	—	-6.8	15"	—	—	193.00	—	Volume of water in tank prior to swabbing was 236.08 gallons.
03/10/1979	—	-6.3	20"	—	—	145.00	—	—
03/10/1979	—	-5.7	25"	—	—	116.00	—	—
03/10/1979	—	-5.2	30"	—	—	96.90	—	Depth of water in tank after swabbing was 1.28 feet.
03/10/1979	—	-4.7	35"	—	—	83.20	—	—
03/10/1979	—	-4.3	40"	—	—	72.90	—	—
03/10/1979	—	-3.7	45"	—	—	64.90	—	Volume of water in tank after swabbing was 368.51 gallons.
03/10/1979	—	-3.3	50"	—	—	58.50	—	—

Table 22. Data from swabbing test 1 performed on the Rustler/Salado contact zone in well H–2C.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since start of swabbing test in minutes (') and seconds (")	Time elapsed since swabbing began, in minutes (t)	Time elapsed since swabbing stopped, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/10/1979	—	-2.8	55"	—	—	53.30	—	—
03/10/1979	—	-2.3	1'	—	—	49.00	—	Density = 1.26.
03/10/1979	—	-1.7	1' 10"	—	—	42.10	—	—
03/10/1979	—	-0.9	1' 20"	—	—	37.00	—	—
03/10/1979	—	0.6	1' 30"	—	—	33.00	—	—
03/10/1979	—	2.9	1' 40"	—	—	30.00	—	—
03/10/1979	—	5.1	1' 50"	—	—	27.20	—	—
03/10/1979	09:35	7.1	2'	—	—	25.00	—	—
03/10/1979	—	10.6	2' 30"	—	—	20.20	—	—
03/10/1979	—	13.6	3'	—	—	17.00	—	—
03/10/1979	—	14.8	3' 30"	—	—	14.70	—	—
03/10/1979	—	15.7	4'	—	—	13.00	—	—
03/10/1979	—	16.3	4' 30"	—	—	11.70	—	—
03/10/1979	—	16.7	5'	—	—	10.60	—	—
03/10/1979	—	17.3	6'	—	—	8.99	—	—
03/10/1979	—	17.8	7'	—	—	7.85	—	—
03/10/1979	—	18.2	8'	55.95	8.00	6.99	—	—
03/10/1979	—	18.5	9'	—	—	6.33	—	—
03/10/1979	—	18.7	10'	—	—	5.79	—	—
03/10/1979	—	19.1	12'	—	—	5.00	—	—
03/10/1979	—	19.5	15'	—	—	4.20	—	—
03/10/1979	—	20.1	20'	—	—	3.40	—	—
03/10/1979	—	20.3	25'	—	—	2.92	—	—
03/10/1979	—	20.6	30'	—	—	2.60	—	—
03/10/1979	—	20.8	35'	—	—	2.37	—	—
03/10/1979	—	21.0	40'	—	—	2.20	—	—
03/10/1979	—	21.4	50'	—	—	1.96	—	—
03/10/1979	—	21.7	60'	—	—	1.80	—	—
03/10/1979	—	21.9	70'	—	—	1.69	—	—
03/10/1979	—	22.1	80'	—	—	1.60	—	—
03/10/1979	—	22.4	90'	—	—	1.53	—	—
03/10/1979	—	22.6	100'	—	—	1.48	—	—
03/10/1979	—	22.9	110'	—	—	1.44	—	—
03/10/1979	—	23.2	120'	—	—	1.40	—	—
03/10/1979	—	23.1	130'	—	—	1.37	—	—
03/10/1979	—	23.1	140'	—	—	1.34	—	—
03/10/1979	—	23.1	150'	—	—	1.32	—	—
03/10/1979	—	23.2	180'	—	—	1.27	—	—

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Table 22. Data from swabbing test 1 performed on the Rustler/Salado contact zone in well H-2C.—Continued

Date	Clock time, HH:MM	Measured pressure, in pounds per square inch	Time elapsed since start of swabbing test in minutes (') and seconds (")	Time elapsed since swabbing began, in minutes (t)	Time elapsed since swabbing stopped, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
03/10/1979	—	23.4	210'	—	—	1.23	—	—
03/10/1979	13:53	23.6	240'	—	—	1.20	—	—
03/11/1979	10:15	27.9	—	1,530.00	1,482.05	1.03	—	—
03/12/1979	12:15	35.3	—	—	—	1.02	—	—
03/12/1979	15:45	36.7	—	—	—	1.01	—	—
03/13/1979	14:20	40.7	—	—	—	1.01	—	—
03/14/1979	7:55	42.6	—	—	—	1.01	—	—
03/14/1979	9:35	42.7	—	—	—	1.01	—	—
03/14/1979	9:50	42.9	—	—	—	1.01	—	Last reading.

Table 23. Data from bailing test 1 performed on the Magenta Dolomite Member in well H-3.

Test start date:	05/02/1979	Test end date:	05/02/1979
Hole depth:	864 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0–864 feet	Bailer capacity:	10.6 gallons
Interval tested:	564–592 feet	Inner diameter of tank:	7.0 feet
Diameter of tested interval:	5.921 inches	Transducer depth:	538.0 feet

Static water level, on May 2, 1979, was 239.60 feet below land surface.

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since bailing stopped, in minutes (') and seconds (") (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
05/02/1979	9:20	1	—	—	—	—	—	—	Bailed and sampled from approximately 550 feet.
05/02/1979	9:23	2	—	—	—	—	—	—	—
05/02/1979	9:25	3	—	—	—	—	—	—	—
05/02/1979	9:28	4	—	—	—	—	—	—	—
05/02/1979	9:30	5	0.13	—	—	—	—	—	—

Table 23. Data from bailing test 1 performed on the Magenta Dolomite Member in well H–3.—Continued

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since bailing stopped, in minutes (') and seconds (") (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
05/02/1979	9:32	6	—	—	—	—	—	—	—
05/02/1979	9:34	7	—	—	—	—	—	—	—
05/02/1979	9:36	8	—	—	—	—	—	—	—
05/02/1979	9:38	9	—	—	—	—	—	—	—
05/02/1979	9:40	10	0.28	—	—	—	—	—	—
05/02/1979	9:43	11	—	—	—	—	—	—	—
05/02/1979	9:45	12	—	—	—	—	—	—	—
05/02/1979	9:47	13	—	—	—	—	—	—	—
05/02/1979	9:49	14	—	—	—	—	—	—	—
05/02/1979	9:51	15	0.44	—	—	—	—	—	—
05/02/1979	9:54	16	—	—	—	—	—	—	—
05/02/1979	9:56	17	—	—	—	—	—	—	—
05/02/1979	9:58	18	—	—	—	—	—	—	—
05/02/1979	10:00	19	—	—	—	—	—	—	—
05/02/1979	10:03	20	0.62	—	—	—	—	—	—
05/02/1979	10:06	21	—	—	—	—	—	—	—
05/02/1979	10:08	22	—	—	—	—	—	—	—
05/02/1979	10:11	23	—	—	—	—	—	—	—
05/02/1979	10:14	24	—	—	—	—	—	—	—
05/02/1979	10:17	25	0.79	—	—	—	—	—	—
05/02/1979	10:20	26	—	—	—	—	—	—	—
05/02/1979	10:23	27	—	—	—	—	—	—	—
05/02/1979	10:26	28	—	—	—	—	—	—	—
05/02/1979	10:28	29	—	—	—	—	—	—	—
05/02/1979	10:31	30	0.98	—	—	—	—	—	—
05/02/1979	10:39	31	—	—	—	—	—	—	—
05/02/1979	10:41	32	—	—	—	—	—	—	—
05/02/1979	10:42	33	—	—	—	—	—	—	—
05/02/1979	10:44	34	—	—	—	—	—	—	—
05/02/1979	10:45	35	1.15	—	—	—	—	—	—
05/02/1979	10:48	36	—	—	—	—	—	—	—
05/02/1979	10:50	37	—	—	—	—	—	—	—
05/02/1979	10:51	38	—	—	—	—	—	—	—
05/02/1979	10:53	39	—	—	—	—	—	—	—
05/02/1979	10:54	40	—	—	—	—	—	—	—
05/02/1979	10:56	41	—	—	—	—	—	—	—

Table 23. Data from bailing test 1 performed on the Magenta Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM	Cumulative bailers of water removed	Depth of water in tank, in feet	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since bailing stopped, in minutes (') and seconds (") (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
05/02/1979	10:57	42	—	—	—	—	—	—	—
05/02/1979	10:58	43	—	—	—	—	—	—	—
05/02/1979	11:00	44	—	—	—	—	—	—	—
05/02/1979	11:01	58	1.43	—	101.0	0''	—	—	—
05/02/1979	—	—	—	0.0	—	4' 20''	24.30	—	[Transducer] set at 538 feet.
05/02/1979	—	—	—	0.2	—	4' 45''	22.30	—	Authors note: Bracketed
05/02/1979	—	—	—	0.3	—	5'	21.20	—	term is authors' addition.
05/02/1979	—	—	—	0.4	—	5' 15''	20.20	—	—
05/02/1979	—	—	—	0.5	—	5' 40''	18.80	—	—
05/02/1979	—	—	—	0.6	—	6' 07''	17.50	—	—
05/02/1979	—	—	—	0.8	—	6' 50''	15.80	—	—
05/02/1979	—	—	—	0.9	—	7' 10''	15.10	—	—
05/02/1979	—	—	—	1.0	—	7' 37''	14.30	—	—
05/02/1979	—	—	—	1.1	—	8'	13.60	—	—
05/02/1979	—	—	—	1.3	—	9'	12.20	—	—
05/02/1979	—	—	—	1.6	—	10'	11.10	—	—
05/02/1979	—	—	—	2.1	—	12'	9.42	—	—
05/02/1979	—	—	—	2.9	—	15'	7.73	—	—
05/02/1979	—	—	—	3.3	118	17'	6.94	—	—
05/02/1979	—	—	—	4.0	—	20'	6.05	—	—
05/02/1979	—	—	—	5.1	—	25'	5.04	—	—
05/02/1979	—	—	—	6.1	—	30'	4.37	—	—
05/02/1979	—	—	—	7.1	—	35'	3.89	—	—
05/02/1979	—	—	—	8.1	—	40'	3.53	—	—
05/02/1979	—	—	—	9.1	—	45'	3.24	—	—
05/02/1979	—	—	—	10.1	—	50'	3.02	—	—
05/02/1979	—	—	—	11.0	—	55'	2.84	—	—
05/02/1979	—	—	—	11.9	—	60'	2.68	—	—
05/02/1979	—	—	—	12.8	—	65'	2.55	—	—
05/02/1979	—	—	—	13.7	—	70'	2.44	—	—
05/02/1979	—	—	—	15.5	—	80'	2.26	—	—
05/02/1979	—	—	—	17.2	—	90'	2.12	—	—
05/02/1979	—	—	—	19.0	—	100'	2.01	—	—
05/02/1979	—	—	—	20.6	—	110'	1.92	—	—
05/02/1979	—	—	—	22.3	—	120'	1.84	—	—

Table 24. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H–3.

Test start date:	05/04/1979	Test end date:	05/07/1979
Hole depth:	864 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0–864 feet	Packer type:	Production injection with feed through
Interval tested:	564–592 feet	Packer diameter:	6.625 inches
Diameter of tested interval:	5.921 inches	Inner tubing diameter:	—
Upper packer set depth:	553.18 feet	Transducer depth:	556.98 feet
Shut in after:	Bailing	Pre-test inflow rate:	53.1 cubic feet per day

Static water level, on May 2, 1979, was 239.60 feet below land surface.

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure in inches of mercury	Remarks
05/04/1979	12:00:00	—	69.3	—	—	—	25.48	Pretest.
05/04/1979	12:14:28	0"	—	144.47	0.00	—	25.48	—
05/04/1979	—	5"	117.6	—	—	1735.00	25.48	—
05/04/1979	—	10"	183.8	—	—	868.00	25.48	—
05/04/1979	—	15"	183.5	—	—	579.00	25.48	—
05/04/1979	—	20"	183.9	—	—	434.00	25.48	—
05/04/1979	—	25"	183.2	—	—	348.00	25.48	—
05/04/1979	—	30"	196.4	—	—	290.00	25.48	—
05/04/1979	—	35"	199.0	—	—	249.00	25.48	—
05/04/1979	—	40"	199.5	—	—	218.00	25.48	—
05/04/1979	—	45"	199.2	—	—	194.00	25.48	—
05/04/1979	—	50"	205.6	—	—	174.00	25.48	—
05/04/1979	—	55"	205.9	—	—	159.00	25.48	—
05/04/1979	—	60"	206.7	—	—	145.00	25.48	—
05/04/1979	—	65"	207.8	—	—	134.00	25.48	—
05/04/1979	—	70"	208.9	—	—	125.00	25.48	—
05/04/1979	—	80"	210.9	—	—	109.00	25.48	—
05/04/1979	—	90"	213.0	—	—	97.30	25.48	—
05/04/1979	—	100"	209.6	—	—	87.70	25.48	—
05/04/1979	—	110"	209.4	—	—	79.80	25.48	—

Table 24. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure in inches of mercury	Remarks
05/04/1979	—	120"	210.0	—	—	73.20	25.48	—
05/04/1979	—	130"	211.2	146.63	2.17	67.70	25.48	—
05/04/1979	—	140"	212.3	—	—	62.90	25.48	—
05/04/1979	—	150"	213.4	—	—	58.80	25.48	—
05/04/1979	—	165"	215.0	—	—	53.50	25.48	—
05/04/1979	—	180"	216.2	—	—	49.20	25.48	—
05/04/1979	—	210"	217.4	—	—	42.30	25.48	—
05/04/1979	—	240"	221.0	—	—	37.10	25.48	—
05/04/1979	—	270"	222.0	—	—	33.10	25.48	—
05/04/1979	—	300"	223.8	—	—	29.90	25.48	—
05/04/1979	—	330"	225.7	—	—	27.30	25.48	—
05/04/1979	—	360"	227.3	—	—	25.10	25.48	—
05/04/1979	—	7'	230.4	—	—	21.60	25.48	—
05/04/1979	—	8'	233.1	—	—	19.10	25.48	—
05/04/1979	—	9'	235.4	—	—	17.00	25.48	—
05/04/1979	—	10'	237.5	—	—	15.40	25.48	—
05/04/1979	—	12'	241.1	—	—	13.00	25.48	—
05/04/1979	—	15'	245.5	—	—	10.60	25.47	—
05/04/1979	—	17'	248.0	—	—	9.50	25.47	—
05/04/1979	—	20'	251.1	—	—	8.22	25.47	—
05/04/1979	—	25'	255.1	—	—	6.78	25.46	—
05/04/1979	12:44:28	30'	258.3	—	—	5.82	25.46	—
05/04/1979	—	35'	259.5	—	—	5.13	25.46	—
05/04/1979	—	40'	260.6	—	—	4.61	25.46	—
05/04/1979	—	45'	259.7	189.47	45.00	4.21	25.45	—
05/04/1979	—	50'	261.0	—	—	3.89	25.45	—
05/04/1979	—	55'	262.4	—	—	3.63	25.45	—
05/04/1979	—	60'	263.7	—	—	3.41	25.45	—
05/04/1979	—	65'	264.8	—	—	3.22	25.45	—
05/04/1979	—	70'	265.9	—	—	3.06	25.44	—
05/04/1979	—	80'	267.8	—	—	2.81	25.44	—
05/04/1979	13:44:28	90'	269.5	—	—	2.61	25.43	—
05/04/1979	—	100'	271.1	—	—	2.44	25.43	—
05/04/1979	—	110'	272.4	—	—	2.31	25.42	—
05/04/1979	14:14:28	120'	273.6	264.47	120.00	2.20	25.41	—
05/04/1979	14:15:00	—	273.6	—	—	2.20	25.41	—

Table 24. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H–3.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure in inches of mercury	Remarks
05/04/1979	14:30:00	—	275.1	—	—	2.07	25.40	—
05/04/1979	14:45:00	—	276.3	—	—	1.96	25.40	—
05/04/1979	15:00:00	—	277.6	—	—	1.87	25.39	—
05/04/1979	15:30:00	—	279.5	—	—	1.74	25.38	—
05/04/1979	16:00:00	—	281.3	—	—	1.64	25.37	—
05/04/1979	16:30:00	—	282.7	—	—	1.57	25.36	—
05/04/1979	17:00:00	—	284.0	—	—	1.51	25.35	—
05/04/1979	17:30:00	—	285.2	—	—	1.46	25.35	—
05/04/1979	18:00:00	—	286.2	—	—	1.42	25.35	—
05/04/1979	19:00:00	—	288.1	—	—	1.36	25.35	—
05/04/1979	20:00:00	—	289.8	—	—	1.31	25.36	—
05/04/1979	21:00:00	—	290.9	—	—	1.27	25.37	—
05/04/1979	22:00:00	—	291.9	—	—	1.25	25.39	—
05/04/1979	23:00:00	—	292.8	—	—	1.22	25.39	—
05/05/1979	0:00:00	—	293.6	—	—	1.20	25.39	—
05/05/1979	1:00:00	—	294.1	—	—	1.19	25.39	—
05/05/1979	2:00:00	—	294.8	—	—	1.17	25.38	—
05/05/1979	3:00:00	—	295.4	—	—	1.16	25.36	—
05/05/1979	4:00:00	—	295.9	—	—	1.15	25.36	—
05/05/1979	5:00:00	—	296.5	—	—	1.14	25.36	—
05/05/1979	6:00:00	—	296.8	—	—	1.14	25.36	—
05/05/1979	8:00:00	—	296.9	1,330.00	1,185.53	1.12	25.36	—
05/05/1979	9:00:00	—	296.8	—	—	1.12	25.34	—
05/05/1979	10:00:00	—	297.0	—	—	1.11	25.33	—
05/05/1979	11:00:00	—	297.2	—	—	1.11	25.31	—
05/05/1979	12:00:00	—	297.4	—	—	1.10	25.28	—
05/05/1979	13:00:00	—	297.7	—	—	1.10	25.23	—
05/05/1979	14:00:00	—	298.0	—	—	1.09	25.19	—
05/05/1979	15:00:00	—	298.1	—	—	1.09	25.13	Authors note : Possible corrected time of 15:01.
05/05/1979	16:00:00	—	298.5	—	—	1.09	25.09	Authors note : Possible corrected time of 16:03.
05/05/1979	17:00:00	—	299.0	—	—	1.08	25.07	Authors note : Possible corrected time of 17:05.
05/05/1979	18:00:00	—	299.4	—	—	1.08	25.05	Authors note : Possible corrected time of 18:06.
05/05/1979	19:00:00	—	300.0	—	—	1.08	25.04	Authors note : Possible corrected time of 19:08.
05/05/1979	20:00:00	—	300.7	—	—	1.08	25.04	Authors note : Possible corrected time of 20:09.
05/05/1979	21:00:00	—	300.8	—	—	1.07	25.06	Authors note : Possible corrected time of 21:11.
05/05/1979	22:00:00	—	301.1	—	—	1.07	25.06	Authors note : Possible corrected time of 22:12.

Table 24. Data from shut-in test 1 performed on the Magenta Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since bailing began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure in inches of mercury	Remarks
05/05/1979	23:00:00	—	301.3	—	—	1.07	25.07	Authors note : Possible corrected time of 23:14.
05/06/1979	0:00:00	—	301.4	—	—	1.07	25.06	Authors note : Possible corrected time of 00:16.
05/06/1979	2:00:00	—	301.6	—	—	1.06	25.06	Authors note : Possible corrected time of 02:19.
05/06/1979	4:00:00	—	301.9	—	—	1.06	25.02	Authors note : Possible corrected time of 04:23.
05/06/1979	6:00:00	—	302.0	—	—	1.06	25.00	Authors note : Possible corrected time of 06:26.
05/06/1979	8:00:00	—	301.3	—	—	1.05	25.00	Authors note : Possible corrected time of 08:30.
05/06/1979	10:00:00	—	301.0	—	—	1.05	24.97	Authors note : Possible corrected time of 10:33.
05/06/1979	12:00:00	—	301.0	—	—	1.05	24.93	Authors note : Possible corrected time of 12:35.
05/06/1979	14:00:00	—	301.4	3,130.00	2,985.53	1.05	24.88	—
05/06/1979	16:00:00	—	302.1	—	—	1.05	24.82	—
05/06/1979	18:00:00	—	302.8	—	—	1.04	24.80	—
05/06/1979	20:00:00	—	303.6	—	—	1.04	24.81	—
05/06/1979	22:00:00	—	303.8	—	—	1.04	24.84	—
05/07/1979	0:00:00	—	304.2	—	—	1.04	24.87	—
05/07/1979	2:00:00	—	304.3	—	—	1.04	24.88	—
05/07/1979	4:00:00	—	304.3	—	—	1.04	24.90	—
05/07/1979	6:00:00	—	304.3	—	—	1.04	24.92	—
05/07/1979	8:00:00	—	304.1	—	—	1.04	24.94	—
05/07/1979	10:00:00	—	303.4	—	—	1.03	24.94	—
05/07/1979	12:00:00	—	303.2	—	—	1.03	24.92	—
05/07/1979	13:00:00	—	302.9	4,510.00	4,365.53	1.03	24.90	End shut-in and start slug.

Table 25. Data from slug test 1 performed on the Magenta Dolomite Member in well H–3.

Test start date:	05/07/1979	Test end date:	05/09/1979
Hole depth:	864 feet	Geologic unit tested:	Magenta Dolomite Member
Cased interval:	0–864 feet	Packer type:	Production injection with feed through
Interval tested:	564–592 feet	Packer diameter:	6.625 inches
Diameter of tested interval:	5.921 inches	Inner tubing diameter:	1.995 inches
Upper packer set depth:	553.18 feet	Transducer depth:	556.98 feet

Static water level, on May 2, 1979, was 239.60 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the slug test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Elapsed time, in hours	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
05/07/1979		—	—	302.9	—	—	24.91	Pretest.
05/07/1979	13:24	0"	—	302.8	—	—	24.91	—
05/07/1979	—	5"	—	307.0	—	—	24.91	$H_0 = 550$ feet minus 303 feet = 247 feet.
05/07/1979	—	10"	—	479.0	0	—	24.91	—
05/07/1979	—	15"	—	558.0	5	—	24.91	H = measured pressure, in feet of water minus 303 feet.
05/07/1979	—	20"	—	550.0	10	—	24.91	—
05/07/1979	—	25"	—	550.0	15	—	24.91	—
05/07/1979	—	30"	—	550.4	20	—	24.91	—
05/07/1979	—	35"	—	550.1	25	—	24.91	—
05/07/1979	—	40"	—	549.9	30	—	24.91	—
05/07/1979	—	45"	—	549.7	35	0.999	24.91	—
05/07/1979	—	50"	—	549.5	40	0.998	24.91	—
05/07/1979	—	55"	—	549.3	45	0.997	24.91	—
05/07/1979	—	60"	—	549.2	50	0.997	24.91	—
05/07/1979	—	70"	—	548.9	60	0.996	24.91	—
05/07/1979	—	80"	—	548.5	70	0.994	24.91	—
05/07/1979	—	90"	—	548.2	80	0.993	24.91	—
05/07/1979	—	100"	—	547.8	90	0.991	24.91	—

Table 25. Data from slug test 1 performed on the Magenta Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Elapsed time, in hours	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
05/07/1979	—	110''	—	547.5	100	0.990	24.91	—
05/07/1979	—	120''	—	547.2	110	0.989	24.91	—
05/07/1979	—	2' 15''	—	546.7	125	0.987	24.90	—
05/07/1979	—	2' 30''	—	546.2	140	0.985	24.90	—
05/07/1979	—	2' 45''	—	545.8	155	0.983	24.90	—
05/07/1979	—	3'	—	545.3	170	0.981	24.90	—
05/07/1979	—	3' 30''	—	544.2	200	0.977	24.90	—
05/07/1979	—	4'	—	543.3	230	0.973	24.90	—
05/07/1979	—	4' 30''	—	542.3	260	0.969	24.90	—
05/07/1979	—	5'	—	541.5	290	0.966	24.90	—
05/07/1979	—	5' 30''	—	540.6	320	0.962	24.90	—
05/07/1979	—	6'	—	539.8	350	0.959	24.90	—
05/07/1979	—	7'	—	538.0	410	0.951	24.90	—
05/07/1979	—	8'	—	536.4	470	0.945	24.90	—
05/07/1979	—	9'	—	534.9	530	0.939	24.90	—
05/07/1979	13:34	10'	—	533.4	590	0.933	24.90	—
05/07/1979	—	12'	—	530.5	710	0.921	24.90	—
05/07/1979	—	14'	—	527.7	830	0.910	24.90	—
05/07/1979	—	16'	—	525.1	950	0.899	24.90	—
05/07/1979	—	18'	—	522.4	1,070	0.888	24.90	—
05/07/1979	—	20'	—	519.9	1,190	0.878	24.90	—
05/07/1979	—	25'	—	513.7	1,490	0.853	24.89	—
05/07/1979	—	30'	—	508.0	1,790	0.830	24.89	—
05/07/1979	—	35'	—	502.7	2,090	0.809	24.89	—
05/07/1979	—	40'	—	497.7	2,390	0.788	24.89	—
05/07/1979	—	45'	—	492.9	2,690	0.769	24.89	—
05/07/1979	—	50'	—	488.1	2,990	0.749	24.88	—
05/07/1979	—	55'	—	483.5	3,290	0.731	24.88	—
05/07/1979	14:24	60'	1	479.0	3,590	0.713	24.88	—
05/07/1979	14:30	—	—	473.8	3,950	0.691	24.88	Started data logger on 10 minute print interval.
05/07/1979	14:40	—	—	465.8	4,550	0.659	24.86	—
05/07/1979	14:50	—	—	458.2	5,150	0.628	24.86	—
05/07/1979	15:00	—	—	451.2	5,750	0.600	24.86	—
05/07/1979	15:10	—	—	444.6	6,350	0.573	24.85	—
05/07/1979	15:20	—	2	438.4	6,950	0.548	24.84	—
05/07/1979	15:30	—	—	432.7	7,550	0.525	24.84	—
05/07/1979	16:00	—	—	416.1	9,350	0.458	24.83	—

Table 25. Data from slug test 1 performed on the Magenta Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Elapsed time, in hours	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
05/07/1979	16:30	—	—	403.1	1,150	0.405	24.81	Corrected time 16:29.
05/07/1979	17:00	—	—	392.1	12,950	0.361	24.80	Corrected time 16:58.
05/07/1979	17:30	—	—	382.6	14,750	0.322	24.79	Corrected time 17:27.
05/07/1979	18:00	—	—	374.4	16,550	0.289	24.79	Corrected time 17:56.
05/07/1979	18:30	—	—	367.2	18,350	0.260	24.79	Corrected time 18:26.
05/07/1979	19:00	—	—	361.1	20,150	0.235	24.80	Corrected time 18:55.
05/07/1979	19:30	—	—	355.5	21,950	0.213	24.80	Corrected time 19:24.
05/07/1979	20:00	—	—	350.6	23,750	0.193	24.81	Corrected time 19:53.
05/07/1979	20:30	—	—	346.4	25,550	0.176	24.82	Corrected time 20:23.
05/07/1979	21:00	—	—	342.6	27,350	0.160	24.83	Corrected time 20:52.
05/07/1979	21:30	—	—	339.2	29,150	0.147	24.84	Corrected time 21:22.
05/07/1979	22:00	—	—	335.9	30,950	0.133	24.84	Corrected time 21:51.
05/07/1979	22:30	—	—	333.2	32,750	0.122	24.84	Corrected time 22:20.
05/07/1979	23:00	—	—	330.8	34,550	0.113	24.85	Corrected time 22:50.
05/07/1979	23:30	—	—	328.7	36,350	0.104	24.85	Corrected time 23:19.
05/08/1979	0:00	—	—	326.9	38,150	0.097	24.85	Corrected time 23:49.
05/08/1979	1:00	—	—	323.7	41,750	0.084	24.85	Corrected time 00:48.
05/08/1979	2:00	—	—	321.1	45,350	0.073	24.85	Corrected time 01:48.
05/08/1979	3:00	—	—	319.0	48,950	0.065	24.85	Corrected time 02:47.
05/08/1979	4:00	—	—	317.3	52,550	0.058	24.85	Corrected time 03:46.
05/08/1979	5:00	—	—	316.0	56,150	0.053	24.86	Corrected time 04:45.
05/08/1979	6:00	—	—	314.9	59,750	0.048	24.86	Corrected time 05:43.
05/08/1979	7:00	—	—	314.0	63,350	0.045	24.88	Corrected time 06:40.
05/08/1979	8:00	—	—	312.7	66,950	0.039	24.89	Corrected time 07:39.
05/08/1979	9:00	—	—	311.3	70,550	0.034	24.89	—
05/08/1979	10:00	—	—	310.2	74,150	0.029	24.87	—
05/08/1979	11:00	—	—	310.0	77,750	0.028	24.86	—
05/08/1979	12:00	—	—	309.3	81,350	0.026	24.86	—
05/08/1979	13:00	—	—	308.7	84,950	0.023	24.84	—
05/08/1979	14:00	—	—	308.6	88,550	0.022	24.82	Corrected time 13:59.
05/08/1979	15:00	—	—	308.4	92,150	0.022	24.78	Corrected time 14:59.
05/08/1979	16:00	—	—	308.0	95,750	0.020	24.75	Corrected time 15:59.
05/08/1979	17:00	—	—	307.8	99,350	0.019	24.73	Corrected time 16:59.
05/08/1979	18:00	—	—	308.3	102,950	0.021	24.71	Corrected time 17:59.
05/08/1979	19:00	—	—	308.6	106,550	0.023	24.69	Corrected time 18:58.
05/08/1979	20:00	—	—	309.0	110,150	0.024	24.69	Corrected time 19:58.
05/08/1979	21:00	—	—	309.0	113,750	0.024	24.69	Corrected time 20:58.

Table 25. Data from slug test 1 performed on the Magenta Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Elapsed time, in hours	Measured pressure, in feet of water	Time elapsed since start of slug test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
05/08/1979	22:00	—	—	309.0	117,350	0.024	24.73	Corrected time 21:58.
05/08/1979	23:00	—	—	308.8	120,950	0.023	24.75	Corrected time 22:58.
05/09/1979	0:00	—	—	308.7	124,550	0.023	24.75	Corrected time 23:57.
05/09/1979	2:00	—	—	308.8	131,750	0.023	24.78	Corrected time 01:57.
05/09/1979	4:00	—	—	308.8	138,950	0.023	24.79	Corrected time 03:57.
05/09/1979	6:00	—	—	308.7	146,150	0.023	24.81	Corrected time 05:56.
05/09/1979	8:00	—	—	307.9	153,350	0.020	24.83	Corrected time 07:55.
05/09/1979	9:00	—	—	307.4	156,950	0.018	24.83	Corrected time 08:55 End slug at 09:15 and start running packer.

Table 26. Data from slug test 1 performed on the Culebra Dolomite Member in well H-3.

Test start date:	05/11/1979	Test end date:	05/15/1979
Hole depth:	864 feet	Geologic unit tested:	Culebra Dolomite Member
Cased interval:	0–864 feet	Packer type:	Production injection with feed through
Interval tested:	675–703 feet	Packer diameter:	5.625 inches
Diameter of tested interval:	5.921 inches	Inner tubing diameter:	1.995 inches
Packer set depth:	597.05 feet	Transducer depth:	600.63 feet

Static water level, on February 10, 1979, was 398.84 feet below land surface.

H₀ represents the apparent height of the column of water above the reference datum at the start of the slug test, in feet.

H represents the apparent height of the column of water above the reference datum as a function of time, in feet.

Table 26. Data from slug test 1 performed on the Culebra Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes(') and seconds('')	Measured pressure, in feet of water	Time elapsed since start of swabbing test beginning at 0 seconds elapsed time, in seconds	H/H ₀ for swabbing test beginning at 0 seconds elapsed time	Time elapsed since start of swabbing test beginning at 70 seconds elapsed time, in seconds	H/H ₀ for swabbing test beginning at 70 seconds elapsed time	Barometric pressure, in inches of mercury	Remarks
05/11/1979	8:20	—	198.1	—	—	—	—	25.35	Pretest.
05/11/1979	8:27	0''	—	0	—	—	—	25.35	—
05/11/1979	—	5''	638.6	5	—	—	—	25.35	For data set
05/11/1979	—	10''	486.4	10	—	—	—	25.35	starting at 0
05/11/1979	—	15''	494.1	15	—	—	—	25.35	seconds elapsed
05/11/1979	—	20''	450.6	20	—	—	—	25.35	time, H ₀ =
05/11/1979	—	25''	457.0	25	—	—	—	25.35	262 feet, H =
05/11/1979	—	30''	459.0	30	—	—	—	25.35	measured
05/11/1979	—	35''	461.3	35	1.000	—	—	25.35	pressure
05/11/1979	—	40''	457.4	40	0.990	—	—	25.35	minus 198 feet.
05/11/1979	—	45''	449.8	45	0.961	—	—	25.35	—
05/11/1979	—	50''	439.6	50	0.922	—	—	25.35	For data set
05/11/1979	—	55''	421.6	55	0.853	—	—	25.35	starting at 70
05/11/1979	—	60''	445.8	60	0.946	—	—	25.35	seconds elapsed
05/11/1979	—	70''	484.2	70	—	0	1.000	25.35	time, H ₀ =
05/11/1979	—	80''	470.4	80	—	10	0.952	25.35	286 feet, H =
05/11/1979	—	90''	459.6	90	0.998	20	illegible	25.35	measured
05/11/1979	—	100''	448.9	100	0.958	30	0.877	25.35	pressure
05/11/1979	—	110''	437.4	110	0.914	40	0.837	25.35	minus 198 feet.
05/11/1979	—	120''	427.3	120	0.875	50	0.802	25.35	—
05/11/1979	—	130''	416.5	130	0.834	60	0.764	25.35	—
05/11/1979	—	140''	407.5	140	0.800	70	0.733	25.35	—
05/11/1979	—	150''	398.3	150	0.765	80	0.700	25.35	—
05/11/1979	8:30	3'	372.6	180	0.666	110	0.610	25.35	—
05/11/1979	—	3' 30''	350.0	210	0.580	140	0.531	25.35	—
05/11/1979	—	4'	329.7	240	0.503	170	0.460	25.35	—
05/11/1979	—	4' 30''	312.4	270	0.437	200	0.400	25.35	—
05/11/1979	—	5'	295.6	300	0.373	230	0.341	25.35	—
05/11/1979	—	6'	269.5	360	0.273	290	0.250	25.35	—
05/11/1979	—	7'	248.1	420	0.192	350	0.176	25.36	—
05/11/1979	—	8'	232.0	480	0.130	410	0.119	25.36	—
05/11/1979	—	9'	220.0	540	0.084	470	0.077	25.36	—
05/11/1979	—	10'	211.4	600	0.051	530	0.047	25.36	—
05/11/1979	—	12'	202.0	720	0.015	650	0.014	25.36	—

Table 26. Data from slug test 1 performed on the Culebra Dolomite Member in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes(') and seconds('')	Measured pressure, in feet of water	Time elapsed since start of swabbing test beginning at 0 seconds elapsed time, in seconds	H/H ₀ for swabbing test beginning at 0 seconds elapsed time	Time elapsed since start of swabbing test beginning at 70 seconds elapsed time, in seconds	H/H ₀ for swabbing test beginning at 70 seconds elapsed time	Barometric pressure, in inches of mercury	Remarks
05/11/1979	—	15'	199.2	900	0.005	830	0.004	25.36	—
05/11/1979	—	17'	199.0	1,020	0.004	950	0.003	25.36	—
05/11/1979	—	20'	198.8	1,200	0.003	1,130	0.003	25.36	—
05/11/1979	—	25'	198.5	1,500	0.002	1,430	0.002	25.36	—
05/11/1979	9:00	30'	198.4	1,800	0.002	1,730	0.001	25.36	—
05/11/1979	9:10	—	198.3	—	—	—	—	25.37	—
05/11/1979	9:20	—	198.2	—	—	—	—	25.36	—
05/11/1979	9:30	—	197.9	—	—	—	—	25.36	—
05/11/1979	9:40	—	197.8	—	—	—	—	25.36	—
05/11/1979	9:50	—	197.7	—	—	—	—	25.37	—
05/11/1979	10:00	—	197.6	—	—	—	—	25.36	—
05/11/1979	10:30	—	197.5	—	—	—	—	25.36	—
05/11/1979	11:00	—	197.4	—	—	—	—	25.35	—
05/11/1979	11:30	—	197.3	—	—	—	—	25.35	—
05/11/1979	12:00	—	197.2	—	—	—	—	25.34	—
05/11/1979	12:30	—	197.2	—	—	—	—	25.32	—
05/11/1979	13:00	—	197.2	—	—	—	—	25.31	—
05/11/1979	13:30	—	197.2	—	—	—	—	25.29	—
05/11/1979	14:00	—	197.2	—	—	—	—	25.28	—
05/11/1979	14:30	—	197.3	—	—	—	—	25.26	—
05/11/1979	15:00	—	197.3	—	—	—	—	25.25	—
05/11/1979	15:20	—	197.3	—	—	—	—	25.25	Data logger
05/13/1979	8:00	—	197.4	—	—	—	—	—	turned off. End
05/15/1979	12:40	—	196.6	—	—	—	—	—	continual monitoring.

Table 27. Data from pressure-pulse test 1 performed on the Rustler-Salado contact zone in well H-3.

Test start date:	07/23/1980	Test end data:	07/23/1980
Hole depth:	—	Geologic unit tested:	Rustler-Salado contact zone
Cased interval:	—	Packer type:	Production injection with feed through
Interval tested:	—	Packer diameter:	4.5 inches
Diameter of tested interval:	—	Tubing diameter:	1.995 inches
Packer set depth:	—	Transducer depth:	Approximately 3 feet above land surface
Volume of water within the pressurized interval:	34.9 cubic feet		

Static water level, on January 11, 1980, was 497.79 feet below land surface.

H₀ represents the apparent height of the column of water at the start of the test, in feet.

H represents the apparent height of the column of water observed during the test, in feet.

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/23/1980	14:22	0	0.0	—	—	—	Authors note: Pretest.
07/23/1980	14:25	0	0.0	—	—	—	—
07/23/1980	—	55	231.0	5	—	—	—
07/23/1980	14:26	0	227.4	10	0.984	—	—
07/23/1980	—	5	226.4	15	0.980	—	—
07/23/1980	—	10	223.4	20	0.967	—	—
07/23/1980	—	15	222.0	25	0.961	—	—
07/23/1980	—	20	220.4	30	0.954	—	—
07/23/1980	—	25	219.3	35	0.949	—	—
07/23/1980	—	30	218.2	40	0.945	—	—
07/23/1980	—	35	217.1	45	0.940	—	—
07/23/1980	—	40	216.3	50	0.936	—	—
07/23/1980	—	45	215.4	55	0.932	—	—
07/23/1980	—	50	214.5	60	0.929	—	—
07/23/1980	—	55	213.8	65	0.926	—	—
07/23/1980	14:27	0	213.0	70	0.922	—	—

Table 27. Data from pressure-pulse test 1 performed on the Rustler-Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/23/1980	—	5	212.4	75	0.919	—	—
07/23/1980	—	10	211.8	80	0.917	—	—
07/23/1980	—	15	211.0	85	0.913	—	—
07/23/1980	—	20	210.4	90	0.911	—	—
07/23/1980	—	25	209.7	95	0.908	—	—
07/23/1980	—	30	209.2	100	0.906	—	—
07/23/1980	—	35	208.5	105	0.903	—	—
07/23/1980	—	40	208.0	110	0.900	—	—
07/23/1980	—	50	207.0	120	0.896	—	—
07/23/1980	14:28	0	205.9	130	0.891	—	—
07/23/1980	—	10	204.9	140	0.887	—	—
07/23/1980	—	20	203.9	150	0.883	—	—
07/23/1980	—	30	203.1	160	0.879	—	—
07/23/1980	—	40	202.1	170	0.875	—	—
07/23/1980	—	50	201.2	180	0.871	—	—
07/23/1980	14:29	0	200.4	190	0.868	—	—
07/23/1980	—	10	199.5	200	0.864	—	—
07/23/1980	—	20	198.7	210	0.860	—	—
07/23/1980	—	30	197.9	220	0.857	—	—
07/23/1980	—	40	197.1	230	0.853	—	—
07/23/1980	—	50	196.3	240	0.850	—	—
07/23/1980	14:30	0	195.7	250	0.847	—	—
07/23/1980	—	20	194.2	270	0.841	—	—
07/23/1980	—	40	192.8	290	0.835	—	—
07/23/1980	14:31	0	191.5	310	0.829	—	—
07/23/1980	—	20	190.2	330	0.823	—	—
07/23/1980	—	40	188.9	350	0.818	—	—
07/23/1980	14:32	0	187.8	370	0.813	—	—
07/23/1980	—	20	186.6	390	0.808	—	—
07/23/1980	—	40	185.6	410	0.803	—	—
07/23/1980	14:33	0	184.3	430	0.798	—	—
07/23/1980	—	20	183.5	450	0.794	—	—
07/23/1980	—	40	182.4	470	0.790	—	—
07/23/1980	14:34	0	181.4	490	0.785	—	—
07/23/1980	—	20	180.4	510	0.781	—	—
07/23/1980	—	40	179.4	530	0.777	—	—
07/23/1980	14:35	0	178.6	550	0.773	—	—

Table 27. Data from pressure-pulse test 1 performed on the Rustler-Salado contact zone in well H–3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/23/1980	—	20	177.7	570	0.769	—	—
07/23/1980	—	40	176.8	590	0.765	—	—
07/23/1980	14:36	0	175.9	610	0.761	—	—
07/23/1980	—	30	174.6	640	0.756	—	—
07/23/1980	14:37	0	173.5	670	0.751	—	—
07/23/1980	—	30	172.4	700	0.746	—	—
07/23/1980	14:38	0	171.1	730	0.741	—	—
07/23/1980	—	30	170.1	760	0.736	—	—
07/23/1980	14:39	0	168.9	790	0.731	—	—
07/23/1980	—	30	168.0	820	0.727	—	—
07/23/1980	14:40	0	166.9	850	0.723	—	—
07/23/1980	—	30	165.9	880	0.718	—	—
07/23/1980	14:41	0	165.0	910	0.714	—	—
07/23/1980	—	30	163.9	940	0.710	—	—
07/23/1980	14:42	0	163.0	970	0.706	—	—
07/23/1980	—	30	162.1	1,000	0.702	—	—
07/23/1980	14:43	0	161.1	1,030	0.697	—	—
07/23/1980	—	30	160.3	1,060	0.694	—	—
07/23/1980	14:44	0	159.3	1,090	0.690	—	—
07/23/1980	14:45	—	157.7	1,150	0.683	—	—
07/23/1980	14:46	—	156.0	1,210	0.675	—	—
07/23/1980	14:47	—	154.3	1,270	0.668	—	—
07/23/1980	14:48	—	152.8	1,330	0.661	—	—
07/23/1980	14:49	—	151.2	1,390	0.655	—	—
07/23/1980	14:50	—	149.7	1,450	0.648	—	—
07/23/1980	14:51	—	148.2	1,510	0.642	—	—
07/23/1980	14:52	—	146.9	1,570	0.636	—	—
07/23/1980	14:53	—	145.2	1,630	0.629	—	—
07/23/1980	14:54	—	143.9	1,690	0.623	—	—
07/23/1980	14:55	—	142.4	1,750	0.616	—	—
07/23/1980	15:00	—	135.8	2,050	0.588	—	—
07/23/1980	15:05	—	129.6	2,350	0.561	—	—
07/23/1980	15:15	—	118.5	2,950	0.513	—	—
07/23/1980	15:30	—	103.3	3,850	0.447	—	—
07/23/1980	15:45	—	90.1	4,750	0.390	—	—
07/23/1980	16:00	—	78.4	5,650	0.339	—	—
07/23/1980	16:15	—	67.7	6,550	0.293	—	—

Table 27. Data from pressure-pulse test 1 performed on the Rustler-Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/23/1980	16:30	—	58.1	7,450	0.252	—	—
07/23/1980	16:45	—	49.2	8,350	0.213	—	—
07/23/1980	17:00	—	40.9	9,250	0.177	—	—
07/23/1980	17:15	—	33.3	10,150	0.144	—	—
07/23/1980	17:30	—	26.2	11,050	0.113	—	—
07/23/1980	17:45	—	19.4	11,950	0.084	—	—
07/23/1980	18:00	—	13.0	12,850	0.056	—	—
07/23/1980	18:15	—	6.8	13,750	0.029	—	—
07/23/1980	18:30	—	1.2	14,650	0.005	—	End pressure pulse test.

Table 28. Data from pressure-pulse test 2 performed on the Rustler-Salado contact zone in well H-3.

Test start date:	07/24/1980	Test end date:	07/24/1980
Hole depth:	—	Geologic unit tested:	Rustler-Salado contact zone
Cased interval:	—	Packer type:	Production injection with feed through
Interval tested:	—	Packer diameter:	4.5 inches
Diameter of tested interval:	—	Tubing diameter:	1.995 inches
Packer set depth:	—	Transducer depth:	Approximately 3 feet above land surface
Volume of water within the pressurized interval:	34.9 cubic feet		

Static water level, on January 11, 1980, was 497.79 feet below land surface.

H₀ represents the apparent height of the column of water at the start of the test, in feet.

H represents the apparent height of the column of water observed during the test, in feet.

Table 28. Data from pressure-pulse test 2 performed on the Rustler-Salado contact zone in well H–3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pres- sure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/24/1980	8:50	0	0.0	—	—	—	Authors note: Pretest.
07/24/1980	—	40	117.5	0	1.000	—	—
07/24/1980	—	45	116.6	5	0.992	—	—
07/24/1980	—	50	115.9	10	0.986	—	—
07/24/1980	—	55	115.2	15	0.980	—	—
07/24/1980	8:51	0	114.6	20	0.975	—	—
07/24/1980	—	5	114.0	25	0.970	—	—
07/24/1980	—	10	113.6	30	0.967	—	—
07/24/1980	—	15	113.1	35	0.963	—	—
07/24/1980	—	20	112.7	40	0.959	—	—
07/24/1980	—	25	112.3	45	0.956	—	—
07/24/1980	—	30	111.9	50	0.952	—	—
07/24/1980	—	35	111.6	55	0.950	—	—
07/24/1980	—	40	111.2	60	0.946	—	—
07/24/1980	—	45	110.9	65	0.944	—	—
07/24/1980	—	50	110.5	70	0.940	—	—
07/24/1980	—	55	110.3	75	0.939	—	—
07/24/1980	8:52	0	110.0	80	0.936	—	—
07/24/1980	—	5	109.7	85	0.934	—	—
07/24/1980	—	10	109.4	90	0.931	—	—
07/24/1980	—	15	109.2	95	0.929	—	—
07/24/1980	—	20	109.0	100	0.928	—	—
07/24/1980	—	25	108.7	105	0.925	—	—
07/24/1980	—	30	108.3	110	0.922	—	—
07/24/1980	—	40	107.9	120	0.918	—	—
07/24/1980	—	50	107.5	130	0.915	—	—
07/24/1980	8:53	0	107.0	140	0.911	—	—
07/24/1980	—	10	106.6	150	0.907	—	—
07/24/1980	—	20	106.2	160	0.904	—	—
07/24/1980	—	30	105.7	170	0.900	—	—
07/24/1980	—	40	105.3	180	0.896	—	—
07/24/1980	—	50	104.9	190	0.893	—	—
07/24/1980	8:54	0	104.6	200	0.890	—	—
07/24/1980	—	10	104.1	210	0.886	—	—
07/24/1980	—	20	103.9	220	0.884	—	—
07/24/1980	—	30	103.4	230	0.880	—	—
07/24/1980	—	40	103.1	240	0.877	—	—

Table 28. Data from pressure-pulse test 2 performed on the Rustler-Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pres- sure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/24/1980	8:55	0	102.5	260	0.872	—	—
07/24/1980	—	20	101.8	280	0.866	—	—
07/24/1980	—	40	101.1	300	0.860	—	—
07/24/1980	8:56	0	100.6	320	0.856	—	—
07/24/1980	—	20	99.9	340	0.850	—	—
07/24/1980	—	40	99.5	360	0.847	—	—
07/24/1980	8:57	0	98.9	380	0.842	—	—
07/24/1980	—	20	98.3	400	0.837	—	—
07/24/1980	—	40	97.8	420	0.832	—	—
07/24/1980	8:58	0	97.2	440	0.827	—	—
07/24/1980	—	20	96.8	460	0.824	—	—
07/24/1980	—	40	96.3	480	0.820	—	—
07/24/1980	8:59	0	95.9	500	0.816	—	—
07/24/1980	—	30	95.1	530	0.809	—	—
07/24/1980	9:00	0	94.6	560	0.805	—	—
07/24/1980	—	30	93.9	590	0.799	—	—
07/24/1980	9:01	0	93.3	620	0.794	—	—
07/24/1980	—	30	92.7	650	0.789	—	—
07/24/1980	9:02	0	92.1	680	0.784	—	—
07/24/1980	—	30	91.5	710	0.779	—	—
07/24/1980	9:03	0	91.0	740	0.774	—	—
07/24/1980	—	30	90.5	770	0.770	—	—
07/24/1980	9:04	0	89.9	800	0.765	—	—
07/24/1980	—	30	89.3	830	0.760	—	—
07/24/1980	9:05	—	88.8	860	0.756	—	—
07/24/1980	9:06	—	87.8	920	0.747	—	—
07/24/1980	9:07	—	86.8	980	0.739	—	—
07/24/1980	9:08	—	85.9	1,040	0.731	—	—
07/24/1980	9:09	—	84.9	1,100	0.723	—	—
07/24/1980	9:10	—	84.1	1,160	0.716	—	—
07/24/1980	9:11	—	83.2	1,220	0.708	—	—
07/24/1980	9:12	—	82.3	1,280	0.700	—	—
07/24/1980	9:13	—	81.5	1,340	0.694	—	—
07/24/1980	9:14	—	80.8	1,400	0.688	—	—
07/24/1980	9:15	—	79.9	1,460	0.680	—	—
07/24/1980	9:20	—	76.0	1,760	0.647	—	—
07/24/1980	9:25	—	72.5	2,060	0.617	—	—

Table 28. Data from pressure-pulse test 2 performed on the Rustler-Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pres- sure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/24/1980	9:30	—	69.0	2,360	0.587	—	—
07/24/1980	9:35	—	65.7	2,660	0.559	—	—
07/24/1980	9:40	—	62.5	2,960	0.532	—	—
07/24/1980	9:45	—	59.5	3,260	0.506	—	—
07/24/1980	9:50	—	56.5	3,560	0.481	—	—
07/24/1980	9:55	—	53.7	3,860	0.457	—	—
07/24/1980	10:00	—	50.9	4,160	0.433	—	—
07/24/1980	10:05	—	48.2	4,460	0.410	—	—
07/24/1980	10:10	—	45.6	4,760	0.388	—	—
07/24/1980	10:15	—	43.1	5,060	0.367	—	—
07/24/1980	10:20	—	40.6	5,360	0.346	—	—
07/24/1980	10:25	—	38.2	5,660	0.325	—	—
07/24/1980	10:30	—	35.9	5,960	0.306	—	—
07/24/1980	10:45	—	29.1	6,860	0.248	—	—
07/24/1980	11:00	—	22.7	7,760	0.193	—	—
07/24/1980	11:15	—	16.8	8,660	0.143	—	—
07/24/1980	11:30	—	11.2	9,560	0.095	—	—
07/24/1980	11:45	—	5.9	10,460	0.050	—	—

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Table 29. Data from pressure-pulse test 3 performed on the Rustler-Salado contact zone in well H-3.

Test start date:	07/24/1980	Test end date:	07/24/1980
Hole depth:	—	Geologic unit tested:	Rustler-Salado contact zone
Cased interval:	—	Packer type:	Production injection with feed through
Interval tested:	—	Packer diameter:	4.5 inches
Diameter of tested interval:	—	Tubing diameter:	1.995 inches
Packer set depth:	—	Transducer depth:	Approximately 3 feet above land surface
Volume of water within the pressurized interval:	—		

Static water level, on January 11, 1980, was 497.79 feet below land surface.

H_0 represents the apparent height of the column of water at the start of the test, in feet.

H represents the apparent height of the column of water observed during the test, in feet.

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/24/1980	13:00	0	0.0	—	—	—	Authors note: Pretest.
07/24/1980	—	30	469.7	0	1.000	—	—
07/24/1980	—	35	458.1	5	0.975	—	—
07/24/1980	—	40	440.2	10	0.937	—	—
07/24/1980	—	45	428.0	15	0.911	—	—
07/24/1980	—	50	418.6	20	0.891	—	—
07/24/1980	—	55	410.2	25	0.873	—	—
07/24/1980	13:01	0	402.6	30	0.857	—	—
07/24/1980	—	5	395.6	35	0.842	—	—
07/24/1980	—	10	389.2	40	0.829	—	—
07/24/1980	—	15	383.3	45	0.816	—	—
07/24/1980	—	20	377.7	50	0.804	—	—
07/24/1980	—	25	372.3	55	0.793	—	—
07/24/1980	—	30	367.5	60	0.782	—	—
07/24/1980	—	35	362.6	65	0.772	—	—
07/24/1980	—	40	358.0	70	0.762	—	—

Table 29. Data from pressure-pulse test 3 performed on the Rustler-Salado contact zone in well H–3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/24/1980	—	45	353.7	75	0.753	—	—
07/24/1980	—	50	349.5	80	0.744	—	—
07/24/1980	—	55	345.5	85	0.736	—	—
07/24/1980	13:02	0	341.3	90	0.727	—	—
07/24/1980	—	5	338.0	95	0.720	—	—
07/24/1980	—	10	334.2	100	0.712	—	—
07/24/1980	—	15	331.0	105	0.705	—	—
07/24/1980	—	20	327.4	110	0.697	—	—
07/24/1980	—	25	324.6	115	0.691	—	—
07/24/1980	—	30	320.9	120	0.683	—	—
07/24/1980	—	35	318.5	125	0.678	—	—
07/24/1980	—	40	315.3	130	0.671	—	—
07/24/1980	—	50	310.2	140	0.660	—	—
07/24/1980	13:03	0	305.1	150	0.650	—	—
07/24/1980	—	10	300.4	160	0.640	—	—
07/24/1980	—	20	296.0	170	0.630	—	—
07/24/1980	—	30	291.8	180	0.621	—	—
07/24/1980	—	40	287.9	190	0.613	—	—
07/24/1980	—	50	284.2	200	0.605	—	—
07/24/1980	13:04	0	280.7	210	0.598	—	—
07/24/1980	—	20	274.4	230	0.584	—	—
07/24/1980	—	40	268.9	250	0.572	—	—
07/24/1980	13:05	0	263.7	270	0.561	—	—
07/24/1980	—	30	257.0	300	0.547	—	—
07/24/1980	13:06	0	250.9	330	0.534	—	—
07/24/1980	—	30	245.4	360	0.522	—	—
07/24/1980	13:07	0	240.5	390	0.512	—	—
07/24/1980	—	30	235.8	420	0.502	—	—
07/24/1980	13:08	0	231.5	450	0.493	—	—
07/24/1980	—	30	227.4	480	0.484	—	—
07/24/1980	13:09	0	223.7	510	0.476	—	—
07/24/1980	13:10	—	216.5	570	0.461	—	—
07/24/1980	13:15	—	188.2	870	0.401	—	—
07/24/1980	13:20	—	166.9	1,170	0.355	—	—
07/24/1980	13:25	—	149.6	1,470	0.319	—	—
07/24/1980	13:30	—	135.0	1,770	0.287	—	—
07/24/1980	13:35	—	122.4	2,070	0.261	—	—
07/24/1980	13:40	—	111.2	2,370	0.237	—	—

Table 29. Data from pressure-pulse test 3 performed on the Rustler-Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Time elapsed between clock time entries, in seconds	Measured pressure, in feet of water	Time elapsed since start of pressure-pulse test, in seconds	H/H ₀	Barometric pressure, in inches of mercury	Remarks
07/24/1980	13:45	—	101.1	2,670	0.215	—	—
07/24/1980	13:50	—	92.0	2,970	0.196	—	—
07/24/1980	13:55	—	83.7	3,270	0.178	—	—
07/24/1980	14:00	—	75.9	3,570	0.162	—	—
07/24/1980	14:05	—	68.8	3,870	0.146	—	—
07/24/1980	14:10	—	62.1	4,170	0.132	—	—
07/24/1980	14:15	—	55.8	4,470	0.119	—	—
07/24/1980	14:20	—	50.0	4,770	0.106	—	—
07/24/1980	14:25	—	44.4	5,070	0.095	—	—
07/24/1980	14:30	—	39.3	5,370	0.084	—	—
07/24/1980	14:35	—	34.3	5,670	0.073	—	—
07/24/1980	14:40	—	29.7	5,970	0.063	—	—
07/24/1980	14:45	—	25.3	6,270	0.054	—	—
07/24/1980	14:50	—	21.1	6,570	0.045	—	—
07/24/1980	14:55	—	17.0	6,870	0.036	—	—
07/24/1980	15:00	—	13.1	7,170	0.028	—	—
07/24/1980	15:05	—	9.4	7,470	0.020	—	—
07/24/1980	15:10	—	5.8	7,770	0.012	—	—
07/24/1980	15:15	—	2.6	8,070	0.006	—	—
07/24/1980	15:20	—	0.0	8,370	0.000	—	End test.

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.

Test start date:	09/04/1979	Test end date:	10/15/1979
Hole depth:	—	Geologic unit tested:	Rustler/Salado contact zone
Cased interval:	—	Packer type:	Production injection with feed through
Interval tested:	—	Packer diameter:	4.5 inches
Diameter of tested interval:	—	Inner tubing diameter:	—
Upper packer set depth:	—	Transducer depth:	—
Shut in after:	—	Pre-test inflow rate:	—

Static water level, on January 11, 1980, was 497.79 feet below land surface.

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
09/04/1979	12:35	—	375.0	—	—	—	29.96	Authors note: Pretest.
09/04/1979	12:37	0"	—	—	0.0	—	29.96	—
09/04/1979	—	5"	398.2	—	0.1	69,121.000	29.96	—
09/04/1979	—	10"	398.6	—	0.2	34,501.000	29.96	—
09/04/1979	—	15"	398.8	—	0.3	23,041.000	29.96	—
09/04/1979	—	20"	398.9	—	0.3	17,281.000	29.96	—
09/04/1979	—	25"	407.2	—	0.4	13,825.000	29.96	—
09/04/1979	—	30"	410.4	—	0.5	11,521.000	29.96	—
09/04/1979	—	35"	410.5	—	0.6	9,875.000	29.96	—
09/04/1979	—	40"	410.3	—	0.7	8,641.000	29.96	—
09/04/1979	—	45"	410.1	—	0.8	7,681.000	29.96	—
09/04/1979	—	50"	410.0	—	0.8	6,913.000	29.96	—
09/04/1979	—	55"	409.8	—	0.9	6,288.000	29.96	—
09/04/1979	—	1'	409.7	—	1.0	5,761.000	29.96	—
09/04/1979	—	1' 10"	409.4	—	1.2	4,938.000	29.96	—
09/04/1979	—	1' 20"	409.1	—	1.3	4,321.000	29.96	—
09/04/1979	—	1' 30"	408.9	—	1.5	3,841.000	29.96	—
09/04/1979	—	1' 40"	408.6	—	1.7	3,457.000	29.96	—
09/04/1979	—	1' 50"	408.4	—	1.8	3,143.000	29.96	—
09/04/1979	—	2'	408.2	—	2.0	2,881.000	29.96	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and sec- onds (")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Baromet- ric pres- sure, in inches of mercury	Remarks
09/04/1979	—	2' 15"	407.9	—	2.3	2,561.000	29.96	—
09/04/1979	—	2' 30"	406.6	—	2.5	2,305.000	29.96	—
09/04/1979	—	2' 45"	406.5	—	2.8	2,096.000	29.96	—
09/04/1979	—	3'	406.2	—	3.0	1,921.000	29.96	—
09/04/1979	—	3' 15"	405.9	5,763.0	3.3	1,773.000	29.96	—
09/04/1979	—	3' 30"	405.7	—	3.5	1,647.000	29.96	—
09/04/1979	—	3' 45"	405.5	—	3.8	1,537.000	29.96	—
09/04/1979	—	4'	405.3	—	4.0	1,441.000	29.96	—
09/04/1979	—	4' 15"	405.1	—	4.3	1,356.000	29.96	—
09/04/1979	—	4' 30"	404.9	—	4.5	1,281.000	29.96	—
09/04/1979	—	4' 45"	404.7	—	4.8	1,214.000	29.96	—
09/04/1979	—	5'	404.5	—	5.0	1,153.000	29.96	—
09/04/1979	—	5' 30"	404.2	—	5.5	1,048.000	29.96	—
09/04/1979	—	6'	403.9	—	6.0	961.000	29.96	—
09/04/1979	—	6' 30"	403.6	—	6.5	887.000	29.96	—
09/04/1979	—	7'	403.3	—	7.0	824.000	29.96	—
09/04/1979	—	7' 30"	403.0	—	7.5	769.000	29.96	—
09/04/1979	—	8'	402.8	—	8.0	721.000	29.96	—
09/04/1979	—	8' 30"	402.5	—	8.5	679.000	29.96	—
09/04/1979	—	9'	402.3	—	9.0	641.000	29.96	—
09/04/1979	—	9' 30"	402.1	—	9.5	607.000	29.96	—
09/04/1979	—	10'	401.9	—	10.0	577.000	29.96	—
09/04/1979	—	11'	401.6	—	11.0	525.000	29.96	—
09/04/1979	—	12'	401.3	—	12.0	481.000	29.96	—
09/04/1979	—	13'	401.0	—	13.0	444.000	29.96	—
09/04/1979	—	14'	400.7	—	14.0	412.000	29.96	—
09/04/1979	—	15'	400.5	—	15.0	385.000	29.96	—
09/04/1979	—	16'	400.3	5,776.0	16.0	361.000	29.96	—
09/04/1979	—	17'	400.1	—	17.0	340.000	29.96	—
09/04/1979	—	18'	400.0	—	18.0	321.000	29.96	—
09/04/1979	—	19'	399.9	—	19.0	304.000	29.96	—
09/04/1979	12:57	20'	399.7	—	20.0	289.000	29.96	—
09/04/1979	—	25'	399.3	—	25.0	231.000	29.96	—
09/04/1979	13:07	30'	399.0	—	30.0	193.000	29.96	—
09/04/1979	13:10	—	399.0	—	32.7	177.000	29.96	—
09/04/1979	13:15	—	399.0	—	37.7	154.000	29.96	—
09/04/1979	13:20	—	399.0	—	42.7	136.000	29.96	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
09/04/1979	13:25	—	399.3	—	47.7	122.000	29.96	—
09/04/1979	13:30	—	399.5	—	52.7	110.000	29.95	—
09/04/1979	13:35	—	399.8	—	57.7	101.000	29.95	—
09/04/1979	13:40	—	400.2	—	62.7	92.900	29.95	—
09/04/1979	13:45	—	400.6	—	67.7	86.100	29.95	—
09/04/1979	13:50	—	401.1	—	72.7	80.200	29.94	—
09/04/1979	13:55	—	401.4	—	77.7	75.100	29.94	—
09/04/1979	14:00	—	401.7	—	82.7	70.600	29.93	—
09/04/1979	14:10	—	402.4	—	92.7	63.100	29.93	—
09/04/1979	14:20	—	403.1	—	102.7	57.100	29.93	—
09/04/1979	14:30	—	403.7	—	112.7	52.100	29.93	—
09/04/1979	14:40	—	404.2	—	122.7	47.900	29.92	—
09/04/1979	14:50	—	404.9	—	132.7	44.400	29.92	—
09/04/1979	15:00	—	405.7	—	142.7	41.400	29.91	—
09/04/1979	15:15	—	406.8	5,717.7	157.0	37.500	29.91	—
09/04/1979	15:30	—	407.8	—	173.0	34.400	29.91	—
09/04/1979	15:45	—	409.0	—	188.0	31.700	29.90	—
09/04/1979	16:00	—	410.0	—	203.0	29.400	29.90	—
09/04/1979	16:15	—	410.9	—	218.0	27.500	29.90	—
09/04/1979	16:30	—	411.8	—	233.0	25.800	29.89	—
09/04/1979	16:45	—	412.8	—	248.0	24.200	29.89	—
09/04/1979	17:00	—	413.8	—	263.0	22.900	29.89	—
09/04/1979	17:15	—	414.7	—	278.0	21.700	29.89	—
09/04/1979	17:30	—	415.6	—	293.0	20.700	29.89	—
09/04/1979	17:45	—	416.5	—	308.0	19.700	29.89	—
09/04/1979	18:00	—	417.5	—	323.0	18.800	29.89	—
09/04/1979	18:15	—	418.4	—	338.0	18.100	29.89	—
09/04/1979	18:30	—	420.0	—	353.0	17.300	29.89	—
09/04/1979	18:45	—	421.5	—	368.0	16.700	29.89	—
09/04/1979	19:00	—	423.0	—	383.0	16.000	29.89	—
09/04/1979	19:15	—	424.2	—	398.0	15.500	29.89	—
09/04/1979	19:30	—	425.2	—	413.0	15.000	29.89	—
09/04/1979	19:45	—	426.3	—	428.0	14.500	29.89	—
09/04/1979	20:00	—	427.3	—	443.0	14.000	29.89	—
09/04/1979	20:15	—	428.4	—	458.0	13.600	29.90	—
09/04/1979	20:30	—	429.2	—	473.0	13.200	29.90	—
09/04/1979	20:45	—	430.2	—	488.0	12.800	29.90	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
09/04/1979	21:00	—	431.1	—	503.0	12.500	29.90	—
09/04/1979	21:15	—	432.0	—	518.7	12.100	29.90	—
09/04/1979	21:30	—	432.8	—	533.0	11.800	29.91	—
09/04/1979	21:45	—	433.7	—	548.0	11.500	29.91	—
09/04/1979	22:00	—	434.7	—	563.0	11.200	29.91	—
09/04/1979	22:15	—	435.4	—	578.0	11.000	29.91	—
09/04/1979	22:30	—	436.2	—	593.0	10.700	29.91	—
09/04/1979	22:45	—	437.1	—	608.0	10.500	29.91	—
09/04/1979	23:00	—	437.9	—	623.0	10.200	29.91	—
09/04/1979	23:15	—	438.7	—	638.0	10.000	29.91	—
09/04/1979	23:30	—	439.5	—	653.0	9.820	29.91	—
09/04/1979	23:45	—	440.3	—	668.0	9.630	29.92	—
09/05/1979	0:00	—	441.0	—	683.0	9.440	29.92	—
09/05/1979	0:15	—	441.8	—	698.0	9.260	29.92	—
09/05/1979	0:30	—	442.5	—	713.0	9.080	29.93	—
09/05/1979	0:45	—	443.3	—	728.0	8.920	29.93	—
09/05/1979	1:00	—	444.0	—	743.0	8.760	29.93	—
09/05/1979	1:15	—	444.8	—	758.0	8.680	29.93	—
09/05/1979	1:30	—	445.6	—	773.0	8.450	29.93	—
09/05/1979	1:45	—	446.3	—	788.0	8.310	29.93	—
09/05/1979	2:00	—	447.1	—	803.0	8.180	29.93	—
09/05/1979	2:15	—	447.8	—	818.0	8.040	29.93	—
09/05/1979	2:30	—	448.5	—	833.0	7.920	29.93	—
09/05/1979	2:45	—	449.2	—	848.0	7.790	29.93	—
09/05/1979	3:00	—	449.9	—	863.0	7.080	29.92	—
09/05/1979	3:30	—	451.3	6,652.7	897.0	7.450	29.92	—
09/05/1979	4:00	—	452.7	—	923.0	7.240	29.91	—
09/05/1979	4:30	—	453.9	—	953.0	7.050	29.91	—
09/05/1979	5:00	—	455.2	—	983.0	6.860	29.91	—
09/05/1979	5:30	—	456.5	—	1,013.0	6.690	29.91	—
09/05/1979	6:00	—	457.3	—	1,043.0	6.520	29.91	—
09/05/1979	6:30	—	459.1	—	1,073.0	6.370	29.92	—
09/05/1979	7:00	—	460.4	—	1,103.0	6.220	29.93	—
09/05/1979	7:30	—	461.8	—	1,133.0	6.090	29.94	—
09/05/1979	8:00	—	463.2	—	1,163.0	5.950	29.94	—
09/05/1979	8:30	—	464.7	—	1,193.0	5.830	29.93	—
09/05/1979	9:00	—	466.2	—	1,223.0	5.710	29.93	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (¹) and sec- onds (²)	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Baromet- ric pres- sure, in inches of mercury	Remarks
09/05/1979	9:30	—	—	—	1,253.0	5.600	29.93	—
09/05/1979	10:00	—	—	—	1,283.0	5.490	29.94	—
09/05/1979	10:30	—	468.1	—	1,313.0	5.390	29.94	—
09/05/1979	11:00	—	470.0	—	1,343.0	5.290	29.94	—
09/05/1979	11:30	—	471.2	—	1,373.0	5.200	29.94	—
09/05/1979	12:00	—	472.3	—	1,403.0	5.110	29.93	—
09/05/1979	12:30	—	473.4	—	1,433.0	5.020	29.92	—
09/05/1979	13:00	—	474.5	—	1,463.0	4.940	29.91	—
09/05/1979	13:30	—	475.7	—	1,493.0	4.860	29.90	—
09/05/1979	14:00	—	477.0	—	1,523.0	4.780	29.90	—
09/05/1979	15:00	—	480.3	—	1,583.0	4.640	29.85	—
09/05/1979	16:00	—	481.6	—	1,647.0	4.510	29.83	—
09/05/1979	17:00	—	482.5	—	1,703.0	4.380	29.82	—
09/05/1979	18:00	—	484.0	—	1,763.0	4.270	29.83	—
09/05/1979	19:00	—	485.9	—	1,823.0	4.160	29.85	—
09/05/1979	20:00	—	487.6	—	1,883.0	4.060	29.87	—
09/05/1979	21:00	—	489.5	—	1,943.0	3.900	29.89	—
09/05/1979	22:00	—	491.0	—	2,003.0	3.880	29.90	—
09/05/1979	23:00	—	492.5	—	2,063.0	3.790	29.92	—
09/06/1979	0:00	—	493.9	—	2,123.0	3.710	29.93	—
09/06/1979	1:00	—	495.1	—	2,183.0	3.640	29.94	—
09/06/1979	2:00	—	496.5	—	2,243.0	3.570	29.95	—
09/06/1979	3:00	—	497.7	—	2,303.0	3.500	29.95	—
09/06/1979	4:00	—	498.8	—	2,363.0	3.440	29.95	—
09/06/1979	5:00	—	500.1	—	2,423.0	3.380	29.96	—
09/06/1979	6:00	—	501.5	—	2,483.0	3.320	29.97	—
09/06/1979	7:00	—	502.6	—	2,543.0	3.270	29.98	—
09/06/1979	8:00	—	503.3	—	2,603.0	3.210	30.00	—
09/06/1979	9:00	—	505.0	—	2,663.0	3.160	30.01	—
09/06/1979	10:00	—	506.3	—	2,723.0	3.120	30.03	—
09/06/1979	11:00	—	507.6	—	2,783.0	3.070	30.03	—
09/06/1979	12:00	—	508.8	—	2,843.0	3.030	30.03	—
09/06/1979	13:00	—	510.2	—	2,903.0	2.980	30.01	—
09/06/1979	14:00	—	511.3	—	2,963.0	2.940	30.00	—
09/06/1979	15:00	—	512.6	—	3,023.7	2.910	29.98	—
09/06/1979	16:00	—	516.2	—	3,083.0	2.870	29.94	—
09/06/1979	17:00	—	518.2	—	3,143.0	2.830	29.92	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes ('') and seconds ("")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
09/06/1979	18:00	—	519.6	—	3,203.0	2.800	29.92	—
09/06/1979	19:00	—	520.9	—	3,263.0	2.770	29.93	—
09/06/1979	20:00	—	522.1	—	3,323.0	2.730	29.95	—
09/06/1979	21:00	—	523.2	—	3,383.0	2.700	29.98	—
09/06/1979	22:00	—	524.0	—	3,443.0	2.670	30.00	—
09/06/1979	23:00	—	524.6	—	3,503.0	2.640	30.01	—
09/07/1979	0:00	—	525.6	—	3,563.0	2.620	30.01	—
09/07/1979	1:00	—	526.3	—	3,623.0	2.590	30.00	—
09/07/1979	2:00	—	526.8	—	3,683.0	2.560	30.01	—
09/07/1979	3:00	—	527.4	—	3,743.0	2.540	30.01	—
09/07/1979	4:00	—	528.2	—	3,803.0	2.510	30.01	—
09/07/1979	5:00	—	530.1	—	3,863.0	2.490	30.01	—
09/07/1979	6:00	—	530.8	—	3,923.0	2.470	30.03	—
09/07/1979	7:00	—	531.4	—	3,983.0	2.450	30.05	—
09/07/1979	8:00	—	532.6	—	4,043.0	2.420	30.06	—
09/07/1979	—	—	—	—	—	—	—	Generator down for fuel.
09/07/1979	13:00	—	541.3	—	4,343.0	2.330	30.04	—
09/07/1979	14:00	—	540.4	—	4,403.0	2.310	30.04	—
09/07/1979	15:00	—	544.0	—	4,463.0	2.290	29.99	—
09/07/1979	16:00	—	545.2	—	4,523.0	2.270	29.96	—
09/07/1979	17:00	—	545.7	10,342.7	4,583.0	2.260	29.95	—
09/07/1979	18:00	—	546.6	—	4,643.0	2.240	29.96	—
09/07/1979	19:00	—	547.5	—	4,703.0	2.220	29.97	—
09/07/1979	20:00	—	548.1	—	4,763.0	2.210	29.99	—
09/07/1979	21:00	—	548.8	—	4,823.0	2.190	30.01	—
09/07/1979	22:00	—	549.2	—	4,883.0	2.180	30.02	—
09/07/1979	23:00	—	549.6	—	4,923.0	2.170	30.03	—
09/08/1979	0:00	—	549.7	—	5,003.0	2.150	30.04	—
09/08/1979	1:00	—	550.0	—	5,063.0	2.140	30.05	—
09/08/1979	2:00	—	550.2	—	5,123.0	2.120	30.06	—
09/08/1979	3:00	—	550.5	—	5,183.0	2.110	30.05	—
09/08/1979	4:00	—	550.8	—	5,243.0	2.100	30.06	—
09/08/1979	5:00	—	551.1	—	5,303.0	2.090	30.06	—
09/08/1979	6:00	—	551.3	—	5,363.0	2.070	30.06	—
09/08/1979	7:00	—	551.8	—	5,423.0	2.060	30.07	—
09/08/1979	8:00	—	552.7	—	5,483.0	2.050	30.08	—
09/08/1979	9:00	—	553.6	—	5,543.0	2.040	30.08	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
09/08/1979	10:00	—	554.2	—	5,603.0	2.030	30.10	—
09/08/1979	11:00	—	555.0	—	5,663.0	2.020	30.10	—
09/08/1979	12:00	—	555.7	—	5,723.0	2.010	30.08	—
09/08/1979	13:00	—	556.3	—	5,783.0	2.000	30.06	—
09/08/1979	14:00	—	556.8	—	5,843.0	1.990	30.04	—
09/08/1979	15:00	—	557.6	—	5,903.0	1.980	30.02	—
09/08/1979	16:00	—	558.7	11,722.7	5,963.7	1.970	30.01	—
09/08/1979	17:00	—	561.7	—	6,023.0	1.960	29.98	—
09/08/1979	18:00	—	562.9	—	6,083.0	1.950	29.97	—
09/08/1979	19:00	—	563.7	—	6,143.0	1.940	29.97	—
09/08/1979	20:00	—	564.3	—	6,203.0	1.930	29.99	—
09/08/1979	21:00	—	564.5	—	6,263.0	1.920	30.01	—
09/08/1979	22:00	—	564.7	—	6,223.0	1.910	30.03	—
09/08/1979	23:00	—	564.9	—	6,383.0	1.900	30.03	—
09/09/1979	0:00	—	565.0	—	6,443.0	1.890	30.03	—
09/09/1979	1:00	—	565.0	—	6,503.0	1.890	30.04	—
09/09/1979	2:00	—	565.4	—	6,563.0	1.880	30.04	—
09/09/1979	3:00	—	565.7	—	6,623.0	1.870	30.04	—
09/09/1979	4:00	—	565.9	—	6,683.0	1.860	30.04	—
09/09/1979	5:00	—	565.9	—	6,743.0	1.850	30.04	—
09/09/1979	6:00	—	566.0	—	6,803.0	1.850	30.04	—
09/09/1979	7:00	—	566.5	—	6,863.0	1.840	30.05	—
09/09/1979	8:00	—	567.1	—	6,923.0	1.830	30.07	—
09/09/1979	10:00	—	568.0	—	7,043.0	1.820	30.08	—
09/09/1979	12:00	—	569.3	—	7,163.0	1.800	30.05	—
09/09/1979	14:00	—	573.6	—	7,283.0	1.790	29.99	—
09/09/1979	16:00	—	575.4	—	7,403.0	1.780	29.94	—
09/09/1979	18:00	—	576.4	—	7,523.0	1.770	29.94	—
09/09/1979	20:00	—	577.2	—	7,643.0	1.750	29.96	—
09/09/1979	22:00	—	577.2	13,522.7	7,763.7	1.740	29.98	—
09/10/1979	0:00	—	576.9	—	7,883.0	1.730	29.98	—
09/10/1979	2:00	—	576.9	—	8,003.0	1.720	29.97	—
09/10/1979	4:00	—	577.0	—	8,123.0	1.710	29.97	—
09/10/1979	6:00	—	577.2	—	8,243.0	1.700	29.97	—
09/10/1979	8:00	—	578.1	—	8,363.0	1.690	29.99	—
09/10/1979	10:00	—	581.2	—	8,483.0	1.680	29.98	—
09/10/1979	12:00	—	584.3	—	8,603.0	1.670	29.94	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes ('') and seconds ("")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
09/10/1979	14:00	—	—	—	—	—	—	Fueling generator.
09/10/1979	16:00	—	585.6	—	8,843.0	1.650	29.85	—
09/10/1979	18:00	—	586.0	—	8,963.0	1.640	29.84	—
09/10/1979	20:00	—	586.5	—	9,083.0	1.630	29.86	—
09/10/1979	22:00	—	586.1	—	9,203.0	1.630	29.88	—
09/11/1979	0:00	—	585.7	—	9,323.0	1.620	29.90	—
09/11/1979	2:00	—	585.5	—	9,443.0	1.610	29.91	—
09/11/1979	4:00	—	585.5	—	9,563.0	1.600	29.90	—
09/11/1979	6:00	—	585.3	—	9,683.0	1.590	29.92	—
09/11/1979	8:00	—	585.9	—	9,803.0	1.590	29.95	—
09/11/1979	10:00	—	588.6	—	9,923.0	1.580	29.95	—
09/11/1979	12:00	—	592.1	—	1,000.0	1.570	29.92	—
09/11/1979	14:00	—	592.7	—	1,020.0	1.570	29.87	—
09/11/1979	16:00	—	592.3	—	1,030.0	1.560	29.84	—
09/11/1979	18:00	—	593.3	—	1,040.0	1.550	29.84	—
09/11/1979	20:00	—	593.8	16,282.7	10,523.7	1.547	29.87	—
09/11/1979	22:00	—	592.7	—	10,643.0	1.541	29.91	—
09/12/1979	0:00	—	591.7	—	10,763.0	1.535	29.93	—
09/12/1979	2:00	—	591.7	—	10,883.0	1.529	29.92	—
09/12/1979	4:00	—	591.5	—	11,003.0	1.524	29.91	—
09/12/1979	6:00	—	591.3	—	11,123.0	1.518	29.92	—
09/12/1979	8:00	—	591.7	—	11,243.0	1.512	29.93	—
09/12/1979	9:00	—	—	—	—	—	—	Changed out data logger and removed barometer now
09/12/1979	18:00	—	627.6	—	11,843.0	1.486	—	using datel unit 01220 /w 368923 12 hour scan at 06:00 and 18:00.
09/13/1979	6:00	—	625.4	—	12,563.0	1.459	—	—
09/13/1979	18:00	—	631.0	—	13,283.0	1.434	—	—
09/14/1979	6:00	—	631.8	—	14,003.0	1.411	—	—
09/14/1979	18:00	—	634.0	—	14,723.0	1.391	—	—
09/15/1979	6:00	—	633.5	—	15,443.0	1.373	—	—
09/15/1979	18:00	—	638.5	—	16,163.0	1.356	—	—
09/16/1979	6:00	—	637.9	—	16,883.0	1.341	—	—
09/16/1979	18:00	—	640.5	—	17,603.0	1.327	—	—
09/17/1979	6:00	—	640.7	—	18,323.0	1.314	—	—
09/17/1979	18:00	—	645.3	—	19,043.0	1.302	—	—
09/18/1979	6:00	—	643.8	—	19,763.0	1.291	—	—
09/18/1979	18:00	—	647.3	—	20,483.0	1.281	—	—

Table 30. Data from shut-in test 2 performed on the Rustler/Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM	Elapsed time, in minutes (') and seconds (")	Measured pressure, in feet of water	Time elapsed since flow began, in minutes (t)	Time elapsed since shut-in test began, in minutes (t')	t/t'	Barometric pressure, in inches of mercury	Remarks
09/19/1979	6:00	—	646.2	26,926.7	21,202.7	1.272	—	—
09/19/1979	18:00	—	651.7	—	21,923.0	1.263	—	—
09/20/1979	6:00	—	647.9	—	22,643.0	1.254	—	—
09/20/1979	18:00	—	654.9	—	23,363.0	1.247	—	—
09/21/1979	6:00	—	651.5	—	24,083.0	1.239	—	—
09/21/1979	18:00	—	654.9	—	24,803.0	1.232	—	—
09/22/1979	6:00	—	651.7	—	25,523.0	1.226	—	—
09/22/1979	18:00	—	658.7	—	26,243.0	1.219	—	—
09/23/1979	6:00	—	654.4	—	26,963.0	1.214	—	—
09/23/1979	18:00	—	661.3	—	27,683.0	1.208	—	—
09/24/1979	6:00	—	656.9	—	28,403.0	1.203	—	—
09/24/1979	18:00	—	663.3	—	29,123.0	1.198	—	—
09/25/1979	6:00	—	658.4	—	29,843.0	1.193	—	—
09/25/1979	18:00	—	665.2	—	30,563.0	1.188	—	—
09/26/1979	6:00	—	660.4	—	31,283.0	1.184	—	—
09/26/1979	18:00	—	667.1	—	32,003.0	1.180	—	—
09/27/1979	6:00	—	662.2	—	32,723.0	1.176	—	—
09/28/1979	12:00	—	669.6	—	34,523.0	1.167	—	—
09/29/1979	12:00	—	671.3	—	35,963.0	1.160	—	—
09/30/1979	12:00	—	672.2	—	37,403.0	1.154	—	—
10/01/1979	12:00	—	673.6	—	38,843.0	1.148	—	—
10/02/1979	12:00	—	672.8	—	40,283.0	1.143	—	—
10/03/1979	12:00	—	673.8	—	41,723.0	1.138	—	—
10/04/1979	12:00	—	674.2	48,922.7	43,162.7	1.133	—	—
10/05/1979	12:00	—	676.7	—	44,603.0	1.129	—	—
10/06/1979	12:00	—	678.7	—	46,043.0	1.125	—	—
10/07/1979	12:00	—	680.4	—	47,483.0	1.121	—	—
10/08/1979	12:00	—	681.1	—	48,923.0	1.118	—	—
10/09/1979	12:00	—	677.0	—	50,363.0	1.114	—	—
10/10/1979	12:00	—	677.8	—	51,803.0	1.111	—	—
10/11/1979	12:00	—	682.7	—	53,243.0	1.108	—	—
10/12/1979	12:00	—	683.2	—	54,683.0	1.105	—	—
10/13/1979	12:00	—	680.6	—	56,123.0	1.103	—	—
10/15/1979	9:30	—	677.8	—	58,852.7	1.098	—	End shut-in and start flow.

110 Aquifer-Test Data for Wells at the Waste Isolation Pilot Plant, Southeastern New Mexico

Table 31. Data from flow test 1 performed on the Rustler-Salado contact zone in well H-3.

Test start date:	10/15/1979	Test end date:	07/01/1980
Hole depth:	—	Geologic unit tested:	Rustler/Salado contact zone
Cased interval:	—	Packer type:	Production injection with feed through
Interval tested:	—	Packer diameter:	4.5 inches
Inner diameter of tested interval:	—	Tubing diameter:	—
Packer set depth:	767.99	Transducer depth:	770.99 feet

Static water level, on January 11, 1980, was 497.79 feet below land surface.

H_0 represents the apparent height of the column of water above the reference datum at the start of the flow test.

H represents the apparent height of the column of water above the reference datum as a function of time.

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Elapsed time, in seconds	Measured pressure, in feet of water	H/H ₀ (data set A)	H/H ₀ (data set B)	Remarks
10/15/1979	9:30:00	—	—	677.8	—	—	Pretest. (SFL)? Density = 1.22.
10/15/1979	9:38:14	0	0	—	—	—	—
10/15/1979	—	5"	5	112.5	—	—	Authors note: For data set A, H ₀ = 552.9 feet.
10/15/1979	—	10"	10	99.6	—	—	H = 677.8 feet minus measured pressure in feet of
10/15/1979	—	15"	15	127.3	—	—	water.
10/15/1979	—	20"	20	124.9	1.000	1.000	—
10/15/1979	—	25"	25	125.2	1.000	1.000	Authors note: For data set B, H ₀ = 577 feet.
10/15/1979	—	30"	30	125.3	0.999	—	H = 702 feet minus measured pressure in feet of
10/15/1979	—	35"	35	125.6	0.999	—	water.
10/15/1979	—	40"	40	125.6	0.999	—	—
10/15/1979	—	45"	45	125.8	0.998	—	—
10/15/1979	—	50"	50	125.9	0.998	—	—
10/15/1979	—	55"	55	126.1	0.998	—	—
10/15/1979	—	60"	60	126.1	0.998	—	—
10/15/1979	—	70"	70	126.3	0.997	0.998	—
10/15/1979	—	80"	80	126.6	0.997	0.997	—
10/15/1979	—	90"	90	127.0	0.996	0.997	—
10/15/1979	—	2'	120	127.8	0.995	0.995	—
10/15/1979	—	2' 30"	150	128.2	0.993	0.994	—
10/15/1979	—	3'	180	128.9	0.993	0.993	—

Table 31. Data from flow test 1 performed on the Rustler-Salado contact zone in well H–3.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Elapsed time, in seconds	Measured pressure, in feet of water	H/H ₀ (data set A)	H/H ₀ (data set B)	Remarks
10/15/1979	—	3' 30"	210	129.1	0.992	0.993	—
10/15/1979	—	4'	240	129.5	0.992	0.992	—
10/15/1979	—	4' 30"	270	129.8	0.991	0.992	—
10/15/1979	—	5'	300	129.9	0.991	0.992	—
10/15/1979	—	7'	420	illegible	0.990	0.991	—
10/15/1979	—	10'	600	130.8	0.989	0.990	—
10/15/1979	—	12'	720	131.3	0.988	0.989	—
10/15/1979	—	15'	900	131.2	0.989	0.989	—
10/15/1979	—	17'	1,020	131.4	0.988	0.989	—
10/15/1979	—	20'	1,200	131.6	0.988	0.989	—
10/15/1979	—	25'	1,500	131.9	0.987	0.988	—
10/15/1979	—	30'	1,800	132.4	0.986	0.987	—
10/15/1979	—	35'	2,100	133.3	0.985	0.986	—
10/15/1979	—	40'	2,400	133.8	0.984	0.985	—
10/15/1979	—	45'	2,700	133.2	0.985	0.986	—
10/15/1979	—	50'	3,000	133.6	0.984	0.985	—
10/15/1979	—	55'	3,300	134.1	0.983	0.984	—
10/15/1979	—	60'	3,600	134.5	0.983	0.984	—
10/15/1979	—	70'	4,200	135.3	0.981	0.982	—
10/15/1979	—	80'	4,800	135.3	0.981	0.982	—
10/15/1979	—	90'	5,400	134.9	0.982	0.983	—
10/15/1979	—	100'	6,000	135.6	0.981	0.982	—
10/15/1979	—	10'	6,600	136.9	0.978	0.979	—
10/15/1979	11:38:14	120'	7,200	136.9	0.978	0.979	—
10/15/1979	11:48:14	130'	7,800	140.7	0.971	0.973	—
10/15/1979	12:00:00	—	8,506	141.1	0.971	0.972	—
10/15/1979	12:30:00	—	10,306	139.1	0.974	0.976	—
10/15/1979	13:00:00	—	12,106	141.0	0.971	0.972	—
10/15/1979	13:30:00	—	13,906	144.6	0.964	0.966	—
10/15/1979	14:00:00	—	15,706	143.3	0.967	0.968	—
10/15/1979	14:30:00	—	17,506	144.8	0.964	0.966	—
10/15/1979	15:00:00	—	19,306	145.5	0.963	0.964	—
10/15/1979	15:30:00	—	21,106	147.6	0.959	0.961	—
10/15/1979	16:00:00	—	22,906	144.1	0.965	0.967	—
10/15/1979	16:30:00	—	24,706	143.6	0.966	0.968	—
10/15/1979	17:00:00	—	26,506	147.0	0.960	0.962	—
10/15/1979	17:30:00	—	28,306	148.4	0.957	0.959	—
10/15/1979	18:00:00	—	30,106	148.7	0.957	0.959	—
10/15/1979	0:00:00	—	31,906	146.9	0.960	0.962	—

Table 31. Data from flow test 1 performed on the Rustler-Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (')	Elapsed time, in seconds	Measured pressure, in feet of water	H/H ₀ (data set A)	H/H ₀ (data set B)	Remarks
10/15/1979	19:00:00	—	33,706	148.1	0.958	0.960	—
10/15/1979	19:30:00	—	35,506	148.1	0.958	0.960	—
10/15/1979	20:00:00	—	37,306	148.1	0.958	0.960	—
10/15/1979	20:30:00	—	39,106	147.8	0.959	0.960	—
10/15/1979	21:00:00	—	40,906	145.1	0.963	0.965	—
10/15/1979	21:30:00	—	42,706	143.4	0.967	0.968	Recorder out of paper.
10/16/1979	8:00:00	—	80,506	145.8	0.962	0.964	—
10/16/1979	9:00:00	—	84,106	147.8	0.959	0.960	—
10/16/1979	10:00:00	—	87,706	149.8	0.955	0.957	—
10/16/1979	11:00:00	—	91,306	151.2	0.952	0.955	—
10/16/1979	12:00:00	—	94,906	152.7	0.950	0.952	—
10/16/1979	14:00:00	—	102,106	154.2	0.947	0.949	—
10/16/1979	16:00:00	—	109,306	154.6	0.946	0.949	—
10/16/1979	18:00:00	—	116,506	154.6	0.946	0.949	—
10/16/1979	20:00:00	—	123,706	153.5	0.948	0.951	—
10/16/1979	22:00:00	—	130,906	152.7	0.950	0.952	—
10/17/1979	0:00:00	—	138,106	152.1	0.951	0.953	—
10/17/1979	2:00:00	—	145,306	151.9	0.951	0.953	—
10/17/1979	4:00:00	—	152,506	151.9	0.951	0.953	—
10/17/1979	6:00:00	—	159,706	152.0	0.951	0.953	—
10/17/1979	8:00:00	—	166,906	151.9	0.951	0.953	—
10/17/1979	10:00:00	—	174,106	154.1	0.947	0.950	—
10/17/1979	12:00:00	—	181,306	156.1	0.944	0.946	—
10/17/1979	14:00:00	—	188,506	157.4	0.941	0.944	—
10/17/1979	16:00:00	—	195,706	159.0	0.938	0.941	—
10/17/1979	18:00:00	—	202,906	159.0	0.938	0.941	—
10/17/1979	20:00:00	—	210,106	158.1	0.940	0.943	—
10/17/1979	22:00:00	—	217,306	157.9	0.940	0.943	—
10/18/1979	0:00:00	—	224,506	157.0	0.942	0.945	—
10/18/1979	2:00:00	—	231,706	158.0	0.940	0.943	—
10/18/1979	4:00:00	—	238,906	157.9	0.940	0.943	—
10/18/1979	6:00:00	—	246,106	157.5	0.941	0.944	—
10/18/1979	8:00:00	—	253,306	158.7	0.939	0.942	—
10/18/1979	10:00:00	—	260,506	161.2	0.934	0.937	—
10/18/1979	12:00:00	—	267,706	163.1	0.931	0.934	—
10/18/1979	14:00:00	—	274,906	165.0	0.927	0.931	—
10/18/1979	16:00:00	—	282,106	165.1	0.927	0.931	—
10/18/1979	18:00:00	—	289,306	165.5	0.927	0.930	—
10/18/1979	20:00:00	—	296,506	163.8	0.930	0.933	—

Table 31. Data from flow test 1 performed on the Rustler-Salado contact zone in well H–3.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (")	Elapsed time, in seconds	Measured pressure, in feet of water	H/H ₀ (data set A)	H/H ₀ (data set B)	Remarks
10/18/1979	22:00:00	—	303,706	162.8	0.931	0.934	—
10/19/1979	0:00:00	—	310,906	162.7	0.932	0.935	—
10/19/1979	2:00:00	—	318,106	163.4	0.930	0.933	—
10/19/1979	4:00:00	—	325,306	163.2	0.931	0.934	—
10/19/1979	6:00:00	—	332,506	162.8	0.931	0.934	—
10/19/1979	8:00:00	—	339,706	162.9	0.931	0.934	—
10/19/1979	10:00:00	—	346,906	165.0	0.927	0.931	—
10/19/1979	12:00:00	—	354,106	167.9	0.922	0.926	Next scan 18:00; 6 hr. interval.
10/19/1979	18:00:00	—	375,706	169.3	0.923	0.923	—
10/20/1979	0:00:00	—	397,306	167.1	0.927	0.927	—
10/20/1979	6:00:00	—	418,906	166.0	0.929	0.929	—
10/20/1979	12:00:00	—	440,506	170.6	0.921	0.921	—
10/20/1979	18:00:00	—	462,106	173.5	0.916	0.916	—
10/21/1979	0:00:00	—	483,706	170.8	0.921	0.921	—
10/21/1979	6:00:00	—	505,306	170.6	0.921	0.921	—
10/21/1979	12:00:00	—	526,906	174.3	0.915	0.915	—
10/21/1979	18:00:00	—	548,506	177.1	0.910	0.910	—
10/22/1979	0:00:00	—	570,106	174.0	0.915	0.915	—
10/22/1979	6:00:00	—	591,706	172.3	0.914	0.918	—
10/22/1979	12:00:00	—	613,306	176.3	0.907	0.911	—
10/23/1979	0:00:00	—	656,506	174.4	0.910	0.914	—
10/23/1979	12:00:00	—	699,706	179.7	0.905	0.905	—
10/24/1979	0:00:00	—	742,906	178.6	0.907	0.907	—
10/24/1979	12:00:00	—	786,106	183.0	0.895	0.899	—
10/25/1979	0:00:00	—	829,306	182.5	0.896	0.900	—
10/25/1979	12:00:00	—	872,506	185.7	0.890	0.895	—
10/26/1979	0:00:00	—	915,706	186.1	0.889	0.894	—
10/26/1979	12:00:00	—	958,906	190.4	0.882	0.887	—
10/27/1979	0:00:00	—	1,002,106	188.9	0.884	0.889	—
10/27/1979	12:00:00	—	1,045,306	192.4	0.878	0.883	—
10/28/1979	0:00:00	—	1,088,506	191.0	0.880	0.886	—
10/28/1979	12:00:00	—	1,131,706	194.3	0.874	0.880	—
10/29/1979	0:00:00	—	1,174,906	192.8	0.877	0.882	—
10/29/1979	12:00:00	—	1,218,106	197.2	0.869	0.875	—
10/30/1979	12:00:00	—	1,304,506	194.9	0.873	0.879	—
10/31/1979	12:00:00	—	1,390,906	200.0	0.864	0.870	—
11/01/1979	9:20:00	—	1,467,706	198.7	0.867	0.872	Density = 1.19.
11/02/1979	9:30:00	—	1,554,706	200.5	0.863	0.869	—
11/05/1979	8:30:00	—	—	—	0.850	0.869	—

Table 31. Data from flow test 1 performed on the Rustler-Salado contact zone in well H-3.—Continued

Date	Clock time, HH:MM:SS	Elapsed time, in minutes (') and seconds (')	Elapsed time, in seconds	Measured pressure, in feet of water	H/H ₀ (data set A)	H/H ₀ (data set B)	Remarks
11/06/1979	9:45:00	—	—	—	0.848	0.854	—
11/07/1979	12:40:00	—	—	—	0.842	0.849	—
11/08/1979	10:45:00	—	—	—	0.834	0.841	—
11/09/1979	13:15:00	—	—	—	0.829	0.836	—
11/13/1979	11:45:00	—	—	—	0.817	0.824	—
11/15/1979	10:40:00	—	—	—	0.811	0.819	—
11/16/1979	10:25:00	—	—	—	0.809	0.817	—
11/19/1979	9:15:00	—	—	—	0.800	0.808	—
11/20/1979	8:45:00	—	—	—	0.800	0.808	—
11/21/1979	13:00:00	—	—	—	0.794	0.803	Density = 1.17.
11/26/1979	12:10:00	—	—	—	0.771	0.782	—
12/03/1979	12:10:00	—	—	—	0.750	0.761	—
12/10/1979	9:10:00	—	—	—	0.729	0.740	—
01/11/1980	11:00:00	—	—	—	0.643	0.658	—
01/18/1980	10:00:00	—	—	—	0.627	0.643	—
01/25/1980	14:55:00	—	—	—	0.612	0.628	—
02/01/1980	9:30:00	—	—	—	0.598	0.615	—
02/13/1980	13:45:00	—	—	—	0.574	0.592	—
02/28/1980	7:45:00	—	—	—	0.546	0.565	—
03/02/1980	11:30:00	—	—	—	0.544	0.563	—
03/14/1980	9:00:00	—	—	—	0.521	0.541	—
04/05/1980	11:20:00	—	—	—	0.486	0.507	—
04/15/1980	7:55:00	—	—	—	0.471	0.493	—
05/05/1980	10:25:00	—	—	—	0.442	0.466	—
06/11/1980	11:40:00	—	—	—	0.395	0.438	—
07/01/1980	13:05:00	—	—	—	0.388	0.414	—