

SELECTED GROUND – WATER DATA IN PARTS OF GILLIAM, MORROW, AND UMATILLA COUNTIES, OREGON

By Ann Davies-Smith, C.A. Collins, and L.J. Olson

U.S. GEOLOGICAL SURVEY
OPEN-FILE REPORT 83-34



Portland, Oregon
1983

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, SECRETARY

GEOLOGICAL SURVEY

Dallas L. Peck, Director

Cover photograph courtesy of U.S. Soil Conservation Service

For additional information write to:
U.S. Geological Survey
847 N.E. 19th Ave., Suite 300
Portland, Oregon 97232

CONTENTS

	Page
Abstract-----	1
Introduction-----	2
Explanation of data-----	3
Well-numbering system and location map-----	3
Hydrographs-----	4

ILLUSTRATIONS

[Plates are in pocket]

Plate 1.	Location of selected irrigation wells in Gilliam, Morrow, and Umatilla Counties, Oregon, <i>with</i> index map of project	
2.	Location of selected domestic, public-supply and other use-wells in Gilliam, Morrow, and Umatilla Counties, Oregon	
Figure 1.	Well-numbering system-----	3
2.	Hydrographs of selected wells-----	22

TABLES

Table 1.	Conversion table-----	iv
	Records of selected wells-----	5

FACTORS FOR CONVERTING ENGLISH UNITS
TO INTERNATIONAL SYSTEM UNITS (SI)
For use of those readers who may prefer to use
metric units rather than English units, the
conversion factors for the terms used in
this report are listed below:

Multiply English units	By	To obtain metric units
<u>Length</u>		
feet (ft)	0.3048	meters (m)
miles (mi)	1.609	kilometers (km)
<u>Area</u>		
acres	0.4047	hectares (ha)
<u>Specific combinations</u>		
gallons per minute (gal/min)	0.06309	liters per second (L/s)

SELECTED GROUND-WATER DATA IN PARTS OF GILLIAM,
MORROW, AND UMATILLA COUNTIES, OREGON

--

By Ann Davies Smith, C. A. Collins, and L. J. Olson

--

ABSTRACT

This report is a compilation of data resulting from a cooperative ground-water modeling study by the U.S. Geological Survey and Oregon Water Resources Department. It includes a table of well information, representative hydrographs, and well location maps for parts of Gilliam, Morrow and Umatilla Counties, Oregon.

INTRODUCTION

Over the last 20 years there has been a shift from dryland to irrigated agriculture in parts of Gilliam, Morrow, and Umatilla Counties in northeastern Oregon. Some irrigation water used in this area is obtained from surface sources, but a significant amount is obtained from wells. The principal aquifer in the area is the Columbia River Basalt Group. Wells in the basalt are commonly drilled to depths of 500 to 1,200 ft and many produce more than 1,000 gal/min. A gravel aquifer close to the Columbia River and along several of its tributaries supplies adequate amounts of water to shallow wells; however, this report contains only data from the basalt aquifer. The data was collected from drillers logs filed with Oregon Water Resources Department and from well inspection reports by Oregon Water Resources Department or Geological Survey personnel. These data are stored in the Geological Survey's Ground-Water Site Inventory (GWSI), a computerized data base.

A cooperative ground-water modeling study between the U.S. Geological Survey and Oregon Water Resources Department has resulted in the compilation of data from wells completed in the basalt aquifer within the area shown in plate 1. The purpose of this report is to make that data available and includes a table of information about wells (table 1), representative hydrographs (fig. 2), and well location maps (pls. 1 and 2).

We appreciate the cooperation of the owners and operators of irrigation and domestic wells, and municipal water departments, who made their wells and records available for inspection.

We are indebted to personnel of Oregon Water Resources Department who collected and organized much of the data in this report, especially to Phil L. Oberlander ^{1/} and Donn W. Miller; also James Bull for his assistance in resolving many of the questions that arose during final compilation of the data.

We are also grateful to personnel of the State Watermaster's Office in Pendleton for providing additional information.

^{1/} Mr. Oberlander is now affiliated with Batelle Pacific Northwest Laboratories, Richland, Washington.

EXPLANATION OF DATA

Well-Numbering System and Location Map

Well numbers in this report are based on the official system for rectangular subdivision of public lands. The number indicates the location of the well by township, range, section, and its position within the section. An illustration of this method of well numbering is shown in figure 1. The first pair of numbers indicates the township; the second, the range; and the third, the section in which the well is located. The letters following the section number locate the well within the section. The first letter denotes the quarter section (160 acres); the second, the quarter-quarter section (40 acres); and the third, the quarter-quarter-quarter section (10 acres). For example well 01S/32E-16CCB is in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ section 16, township 1 south, range 32 east. Where two or more wells are in the same 10-acre subdivision, serial numbers are added after the third letter. An "X" following the range number indicates that the well is in a half township; for example, 02S/30X-23ADD is in range 30 $\frac{1}{2}$ E which lies between ranges 30 and 31.

Locations of irrigation wells included in this report are shown on plate 1; locations of domestic, public supply, and other use wells are on plate 2. The wells are identified on the plates by the latter part of the well number, i.e., 16CBB.

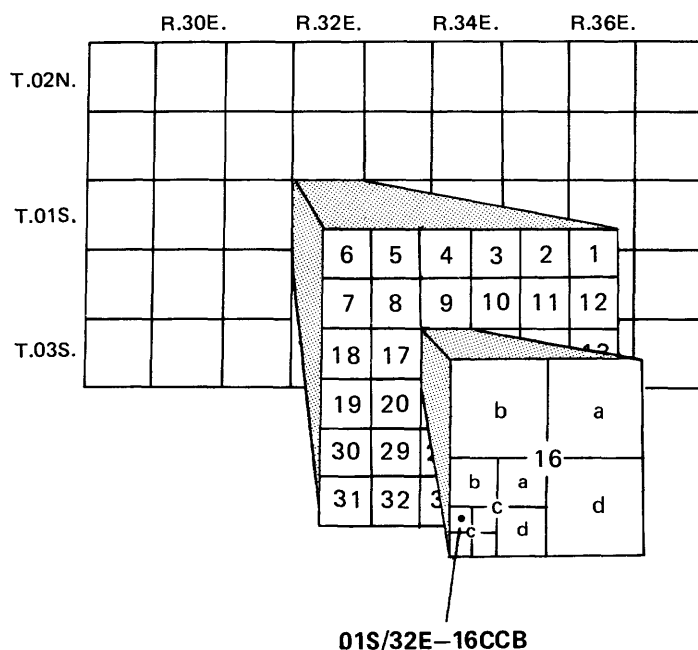


FIGURE 1. — Well-numbering system.

Hydrographs

Water-level measurements have been made in some wells in the area since the 1950's. The wells with longest periods of record are those that are part of a Statewide network of observation wells measured by the U.S. Geological Survey and Oregon Water Resources Department. Since 1980, a concerted effort has been made to measure water levels in irrigation wells throughout the study area in early February and during the summer irrigation season. However, many of these wells have only a short period of record.

Hydrographs for 69 wells are included in this report (see fig. 2). These wells have at least 5 years of record and are believed to be properly sealed into basalt. Where water-level records are available for several nearby wells which show a similar trend, only one representative hydrograph has been included. For wells with a long period of record, a maximum of 20 years of data are shown.

Table 1.--Records of selected wells

Well number: See text p.3 for description of well-numbering system.											
County: G, Gilliam; M, Morrow; U, Umatilla.											
Well depth: Depth of well, in feet, asterisk (*) indicates well has been deepened. See Remarks for information on previous depths.											
Use of water: C, commercial; H, domestic; I, irrigation; N, industrial; P, public supply; R, recreation; S, stock; T, institution; U, unused.											
Type of pump: C, centrifugal; J, jet; P, piston; S, submersible; T, turbine; U, unknown; Z, other.											
WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
01N/21E-33DCC	G	WEATHERFORD	528	1977	I	T	300	890	47.25	02/11/1981	
01N/22E-08ABD	G	WEST	*590	1980	I	S	--	690	87.34	02/11/1981	H, 229 (1955)
01N/23E-27DBB	M	HEIDEMAN	297	1968	I	T	20	980	+1.00	08/13/1981	
01N/23E-34ADC	M	MCCABE & PETTYJOHN	*260	1969	I	S	30	890	+10.97	02/11/1981	122 (1968)
01N/24E-04ABA	M	BAKER	330	1976	H	S	--	1020	188.70	02/10/1981	H
01N/24E-04BAA	M	BAKER	368	1970	U	--	--	980	494.10	02/11/1981	
01N/25E-10CDD	M	MARQUARDT	227	1971	S	--	--	1000	+92.40	03/02/1978	
01N/25E-13CDD	M	BARACK	237	1962	H	P	--	1130	160.00	05/ /1962	
01N/26E-04BAA	M	GRIEB	1167	1968	I	T	250	1130	494.10	02/11/1981	
01N/26E-05BBA	M	GRIEB	1500	1969	I	T	400	1105	259.00	12/02/1971	
01N/26E-08BBD	M	DOHERTY	1053	1971	I	T	300	1192	324.14	02/26/1982	H
01N/26E-10AAB	M	DOHERTY	376	1964	I, H	T	40	1126	250.70	02/11/1981	H
01N/26E-18DDD1	M	RAUCH	300	--	H	S	2	1188	101.84	08/14/1979	
01N/26E-18DDD2	M	RAUCH	*383	1977	I	S	3	1190	133.90	02/11/1981	340 (1972)
01N/26E-26BCC	M	TURNER	230	1963	H	S	25	1450	201.10	08/28/1980	
01N/26E-26CAB	M	TURNER	675	1976	I	T	100	1400	144.60	02/11/1981	
01N/26E-26CCC	M	TURNER	*960	1976	I	T	200	1505	250.25	02/11/1981	H, 479 (1968)
01N/26E-29BDD	M	KILKENNY	360	--	S	S	2.5	1340	86.80	08/14/1979	
01N/26E-35DCB	M	CUTSFORTH	*508	1972	I	T	200	1520	8.60	02/11/1981	H, 246 (1968)
01N/26E-36CDB	M	CUTSFORTH	665	1971	I	T	300	1682	188.90	08/28/1980	
01N/27E-03AAC1	M	LUCIANI	*220	1967	H, I	S	7.5	1140	218.75	12/07/1978	H, 107 (1964)
01N/27E-03AAC2	M	LUCIANI	285	1974	H, S	S	7.5	1140	233.80	02/23/1982	
01N/27E-03DBB	M	WATTENBURGER	*684	1977	I	T	40	1120	147.10	12/06/1978	129 (1964), 259 (1966)
01N/27E-05CCB	M	PERKINS	892	1969	I	T	500	1270	353.40	02/12/1980	H
01N/27E-10AAB	M	WATTENBURGER	*243	1967	H, I	S	25	1100	141.32	02/15/1977	H, 120 (1952)
01N/27E-10ACA	M	WATTENBURGER	120	1962	I	T	60	1130	57.99	03/11/1970	
01N/27E-10ADC	M	WATTENBURGER	*127	1973	H	--	--	1125	115.56	03/13/1979	110 (1952)
01N/27E-10DCC	M	ASHBECK	*400	1975	I	T	50	1150	236.20	03/25/1982	227 (1967)

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
01N/27E-21ACC	M	MEYERS	*760	1977	I	T	200	1290	175.30	02/12/1981	H, 450 (1968)
01N/27E-21DDD	M	BAILEY	*600	1977	I	T	60	1380	182.40	03/26/1982	420 (1968)
01N/27E-23DAD	M	BRITT	215	--	I	T	50	1270	50.00	04/00/1979	
01N/27E-24DDD	M	SCHILLER	777	1958	I, S	T	50	1350	+35.00	02/13/1980	
01N/27E-26BCD	M	HEALY	*575	1977	I	T	60	1460	137.15	02/12/1981	H, 133 (1967), 250 (1968)
01N/27E-26CBA	M	CURRIN	200	1968	I	T	30	1460	148.40	03/26/1982	
01N/27E-27BDD	M	HEALY	*116	1970	H	S	1	1380	101.00	08/27/1980	65 (1962)
01N/28E-28BAA	M	SCHILLER	500	1953	I	T	75	1385	26.55	02/12/1981	H
01N/28E-28BBC	M	VEY	365	1953	I	T	50	1375	30.90	08/27/1980	
01N/30E-11ABC	U	--	350	--	--	--	--	1870	311.70	02/15/1980	
01N/30E-27BBA	U	LEVY	*613	1976	--	--	--	2270	229.21	02/10/1981	610 (1969)
01N/30E-27BBD	U	LEVY	--	--	H	--	--	2295	2.10	07/10/1979	
01N/30E-33ADD	U	LEVY	1170	1977	U	T	--	2645	609.15	02/09/1981	
01N/30E-33BAD	U	FIX RANCH	*1035	1977	--	--	--	2700	280.86	02/10/1981	792 (?)
01N/32E-03BCD	U	BECK	--	--	I	T	5	1410	192.00	07/16/1980	
01N/32E-10DBB	U	SKYVIEW MEM. PARK	700	1963	I	T	100	1457	163.00	02/11/1980	H
01N/32E-12DCC	U	HOLMES	515	1978	I	S	--	1400	92.00	07/14/1980	
01N/32E-15CAA	U	PEND. COUNTRY CLUB	392	1957	I	T	7.5	1300	14.60	07/15/1980	
01N/32E-21DBB	U	VANDERPOOL	390	1976	I	T	75	1460	110.00	04/06/1976	
01N/32E-22ABB	U	ELDRIDGE	630	--	I	T	30	1320	28.50	07/15/1980	
01N/32E-22ACD	U	ELDRIDGE	540	1952	I	T	40	1378	41.00	02/11/1980	H
01N/32E-23DBB	U	ADKINSON	250	1968	I	S	10	1420	37.30	07/16/1980	
01N/32E-26CAC	U	DOHERTY	--	1977	I	T	150	1585	242.60	02/12/1981	
01N/32E-27ACB	U	HOEFT	600	1979	I	U	--	1400	72.00	01/25/1979	
01N/32E-27ACC	U	HOEFT	325	1975	I	T	50	1408	73.40	07/15/1980	
01N/32E-28BBD	U	HOEFT	583	1956	I	T	40	1500	21.70	07/16/1980	
01N/32E-30ACB	U	SIMPSON BROS.	450	1978	I	T	150	1600	103.00	02/11/1981	
01N/32E-35ACB	U	DOHERTY	279	1974	I	S	25	1480	163.10	07/16/1980	
01N/33E-28CBC	U	ANDERSON LAND CO.	420	1978	H	S	--	1930	88.81	02/12/1980	
01N/34E-01BAA	U	OREGON STATE PARK	690	1969	R	C	5	3610	216.00	10/01/1969	
01S/21E-14DDD	G	D ALBERO	150	1976	I	T	75	1080	--	--	
01S/22E-03DDB	G	KING RANCH	1035	1974	I	T	300	1190	124.90	02/11/1981	
01S/22E-10AAC	G	KING RANCH	443	1968	I	T	300	1240	128.90	07/30/1980	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
01S/22E-10DAB	G	KING RANCH	395	1969	I	T	300	1300	163.08	08/27/1979	H
01S/22E-13CDC	G	KING RANCH	505	1969	I	T	400	1345	195.00	06/02/1969	
01S/23E-02ADD	M	SHERER	143	1968	I	S	--	940	16.00	08/23/1968	
01S/24E-03CDB	M	CITY OF IONE	675	1977	P	T	100	1100	33.90	02/10/1981	H
01S/24E-07BAC	M	MOLLAHAN	68	1965	I	--	--	994	17.92	08/27/1979	
01S/24E-07BDB	M	MOLLAHAN	--	--	U	C	5	1000	19.70	07/29/1980	
01S/24E-08BBD	M	EKSTROM	118	1968	I	S	--	1100	45.10	07/29/1980	
01S/24E-08BCA	M	LADD	*247	1977	I	T	60	1100	62.10	07/29/1980	138 (?)
01S/24E-09AAA	M	CITY OF IONE	142	1968	P	T	40	1100	16.50	07/29/1980	
01S/24E-09BBD	M	EKSTROM	170	1970	I	T	40	1100	21.50	07/29/1980	
01S/24E-12DAA	M	PALMER	--	--	I	S	--	1200	40.60	07/28/1980	
01S/24E-12DBB	M	JEPSEN	--	--	H	S	--	1120	14.00	07/28/1980	
01S/24E-13DBC	M	PALMER	257	1968	I	S	--	1200	3.00	09/20/1968	
01S/24E-17CAA	M	BARNETT	425	1978	H	S	5	1400	306.20	07/29/1980	
01S/24E-30CDC	M	TEWS	860	1976	H	S	10	1585	--	--	
01S/24E-35AAC	M	PADBERG	400	1977	I	T	100	1400	163.75	02/22/1982	H, 460 (1968)
01S/24E-35AAD	M	PADBERG	*1140	1977	I	T	300	1360	173.10	02/11/1981	
01S/25E-09BDD	M	NELSON	335	--	--	S	3	1500	186.57	02/12/1981	
01S/25E-14BCB	M	CUTSFORTH	288	1947	I	S	--	1640	153.27	09/10/1979	
01S/25E-19AAB	M	JONES	350	--	I	S	30	1280	31.20	07/28/1980	
01S/25E-27CDD	M	WAY	--	--	I	T	10	1420	139.30	07/28/1980	
01S/25E-34DCB1	M	CITY OF LEXINGTON	*700	1974	P	T	30	1660	68.14	02/12/1981	528 (1972), 683 (1974)
01S/25E-34DCB2	M	LEXINGTON CEMETERY	405	1966	I	S	15	1690	240.64	02/12/1981	H
01S/25E-35DBD	M	PADBERG	597	1973	I	T	300	1520	105.06	02/24/1982	
01S/26E-01DAD	M	CUTSFORTH	70	1957	I	T	20	1600	20.70	12/19/1979	
01S/26E-01DBC	M	CUTSFORTH	200	1975	I	T	40	1600	69.20	02/13/1980	
01S/26E-09DBD	M	CUTSFORTH	112	1964	I	S	--	1895	52.50	07/24/1980	
01S/27E-19AAD	M	TURNER	710	1979	I	T	100	1920	205.90	02/11/1981	
01S/29E-01CBA	M	OWEN	225	1958	--	C	2	1780	+2.88	02/09/1981	
01S/29E-03AAC	M	VEY	152	--	U	--	--	1730	+74.00	03/13/1979	H
01S/30E-11DDA	U	MURRAY-NELSON RANCH	670	--	--	S	3	2668	635.00	02/09/1981	
01S/32E-01BBB	U	ELLIS	497	1968	I	S	20	1500	3.10	07/16/1980	
01S/32E-01DCB	U	SUTHERLAND	548	1974	I	S	25	1530	+2.30	07/16/1980	
01S/32E-01DDC	U	INSKO	262	1975	I	S	25	1530	+35.00	10/12/1978	
01S/32E-03BCA	U	HEMPHILL	--	--	I	T	25	1500	0.00	07/15/1980	
01S/32E-03CBB	U	ELFERING	200	1976	I	S	--	1585	73.40	07/15/1980	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE- POWER	ALTI- TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
01S/32E-07ADA	U	REESER	872	1978	I	T	250	1770	--	--	
01S/32E-08BDA	U	REESER	928	1975	I	T	250	1705	125.30	07/17/1980	
01S/32E-08DAD	U	NEWQUIST	115	1956	H	S	15	1660	50.20	07/17/1980	
01S/32E-09ABA	U	JACOBSEN	150	1951	H	T	1.5	1600	41.75	07/16/1980	
01S/32E-09BBA	U	U.S. GYPSUM CO.	*1500	1979	N	T	50	1560	28.70	07/21/1980	905 (1967)
01S/32E-09BCD	U	U.S. GYPSUM CO.	890	1952	N	T	50	1550	166.70	07/21/1980	
01S/32E-09CCB	U	LOUISIANA PACIFIC	365	1952	N	T	40	1610	84.30	02/11/1981	
01S/32E-10ACB	U	ETTER	410	1968	I	S	20	1658	45.10	07/16/1980	
01S/32E-11DDD	U	HOEFT	130	1976	I	S	3.5	1735	3.00	07/16/1980	
01S/32E-12AAC	U	MILLER	115	1977	H	S	--	1600	20.00	07/16/1980	
01S/32E-12BAC	U	MILLER	165	1976	I	T	25	1620	20.60	07/16/1980	
01S/32E-14AAA	U	FUTTER	140	1975	I	S	2	1780	40.80	07/16/1980	
01S/32E-16CAC	U	ETTER	265	1955	I	T	15	1690	37.70	02/11/1981	
01S/32E-16CCA	U	SLABIK	272	1974	I	S	40	1680	40.10	10/12/1978	65 (?)
01S/32E-16CCB	U	BYRNES	*265	1973	I	S	--	1700	3.35	05/11/1978	
01S/32E-17ACD	U	CITY OF PILOT ROCK	309	1945	P	--	15	1680	--	--	
01S/32E-17CDB	U	HUTCHISON	243	1962	I, H	T	15	1690	14.30	02/12/1980	H
01S/32E-17DBA	U	CITY OF PILOT ROCK	486	1956	P	T	75	1690	44.90	07/21/1980	
01S/32E-17DBC	U	HUTCHISON	550	1977	I	S	50	1702	73.00	07/21/1980	
01S/32E-19AAA	U	WHITTAKER	345	1977	I	T	50	1790	52.30	02/11/1981	H
01S/32E-19CDD	U	HOEFT	937	1964	I	T	30	1680	59.20	07/17/1980	
01S/32E-21BBB	U	SLABIK	--	--	I	S	--	1690	76.80	07/17/1980	
01S/32E-21BCB1	U	JOHNSTON	253	1972	I	T	15	1715	181.40	07/17/1980	
01S/32E-21BCB2	U	MULLENBURG	400	--	I	T	15	1780	--	--	
01S/32E-21CBA	U	HAMPSON	--	--	I	S	15	1760	69.20	07/17/1980	
01S/32E-21CCA	U	FIX	260	--	I	S	--	1785	59.70	07/17/1980	
01S/32E-21CCB	U	PERRINE	225	1976	I	S	--	1980	86.00	07/17/1980	
01S/32E-23ADB	U	HORN	225	1958	I	S	30	2000	83.72	02/11/1981	H
01S/32E-23DAA	U	HORN	794	1950	I	--	--	1800	19.90	07/21/1980	401 (1977)
01S/32E-28BDC	U	RUGG	*563	1977	I	T	30	1940	--	--	
01S/32E-29ADB	U	WILSON	685	1976	H	S	1.5	1960	31.03	10/11/1978	
01S/32E-33CAD	U	HUMPHREYS	253	1977	I	S	30	1935	0.00	07/21/1980	
01S/32E-33DBC	U	HUMPHREYS	80	--	I	S	--	1640	33.20	07/14/1980	
01S/33E-05ADC	U	DAY	190	1976	H	S	--	1640	0.45	10/12/1978	
01S/33E-05CAA	U	STANHOPE	140	1974	I	T	7.5	1550	+3.53	07/14/1980	
01S/33E-06CBB	U	STANHOPE	330	1971	I	C	15	2000	--	--	
01S/33E-10AAC	U	PLATT	--	--	I	T	30	2245	--	--	
01S/33E-19BDD	U	HORN	265	1974	I	T	25	2190	39.80	07/14/1980	
01S/33E-19CCA	U	HORN	325	1974	I	T	25	2190	--	--	
02N/20E-17CBC	G	HULDEN	215	--	I	T	50	885	--	--	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL, (FEET)	DATE W.L. MEASURED	REMARKS
O2N/20E-18AAD	G	HULDEN	--	--	I	S	10	920	85.70	08/07/1980	
O2N/20E-19DCD	G	BIG SKY RANCH	*795	1972	I	T	250	924	459.50	02/14/1981	446 (?)
O2N/20E-28ADA	G	BIG SKY RANCH	1000	1974	I	T	500	1030	--	--	
O2N/21E-10ADD	G	KREBS BROS.	575	1975	S	--	--	660	304.98	08/27/1979	H
O2N/21E-15ACA	G	HOAG	--	--	H	S	1.5	670	87.50	08/07/1980	
O2N/21E-15ADB	G	HOAG	--	--	I	T	30	660	81.60	08/07/1980	
O2N/23E-17ADD	M	CHENEY	*685	1977	I	T	100	560	155.57	02/13/1981	478 (1968)
O2N/23E-17DDD	M	CHENEY	425	1964	I	T	30	563	161.50	02/21/1982	H
O2N/23E-20ADA	M	CHENEY	265	--	I	T	60	555	86.50	08/05/1980	
O2N/23E-21BCB	M	HYND BROS	265	1968	I	--	--	585	159.06	11/28/1978	
O2N/23E-29DDD	M	KREBS BROS	*665	1978	I	T	60	630	191.84	09/15/1977	H, 425 (1968)
O2N/23E-31BAA	M	FAIRVIEW RANCH	935	1977	I	T	300	1000	685.00	09/23/1977	
O2N/23E-35ACC	M	MILLER	347	--	H	S	1	944	329.65	02/10/1981	
O2N/24E-25ADB	M	DOHERTY	104	1919	U	--	--	913	59.25	03/08/1977	
O2N/24E-26BBA	M	CRAWFORD	400	--	H	--	--	881	289.83	02/14/1980	H
O2N/24E-27BBD	M	DOHERTY	*485	1979	H	S	5	805	222.27	02/10/1981	280 (1973)
O2N/24E-27CBC	M	CRAWFORD	140	--	S	--	--	860	9.60	08/28/1979	
O2N/24E-31ABB	M	DOUGLAS	--	1981	--	T	200	790	212.00	06/30/1981	
O2N/24E-31DAA	M	DOUGLAS	1111	1978	I	T	150	930	362.56	02/24/1982	
O2N/24E-31DDA	M	DOUGLAS	320	1971	U	--	--	940	179.05	04/09/1980	
O2N/24E-32ADD	M	LINDSTROM BROS.	*--	1969	I	U	--	940	349.20	02/10/1981	525 (1969), 945 (1977)
O2N/24E-32CDD	M	DOUGLAS	*1086	1977	I	--	--	970	362.25	04/09/1980	H, 509 (1970)
O2N/24E-33DDB	M	ANDERSON	1370	1978	I	T	500	1025	375.25	02/10/1981	
O2N/24E-36DBC	M	ANDERSON	1350	1975	I	T	450	1215	459.97	02/12/1980	
O2N/25E-20CCC	M	DOHERTY	125	1918	S	--	--	855	16.60	03/21/1978	
O2N/25E-30ABC	M	DOHERTY	295	1974	S	--	--	880	57.68	08/28/1979	H
O2N/25E-36ABB	M	LINDSAY	*1081	1970	U	--	--	980	396.00	02/11/1981	846 (1969)
O2N/26E-03BCC	M	LINDSAY	1265	1972	I	T	200	786	432.35	02/11/1981	H
O2N/26E-06ACC	M	REA	*1097	1970	I	T	200	850	266.27	02/11/1981	H, 714 (?), 830 (1970)
O2N/26E-10CDB	M	LINDSAY	1104	1971	I	T	400	960	335.67	03/15/1976	
O2N/26E-11CDD	M	LINDSAY	1200	1971	H	S	5	879	322.13	12/13/1980	H
O2N/26E-15ACC	M	TAYLOR	1145	1972	I	T	500	940	370.54	06/11/1980	
O2N/26E-17ABA	M	FAR WEST FARMS	1103	--	I	T	400	920	335.00	02/05/1980	
O2N/26E-18DAA	M	FAR WEST FARMS	1145	1970	I	T	500	935	346.07	02/11/1981	H
O2N/26E-20DBB	M	FAR WEST FARMS	1000	1967	I	T	350	985	455.00	12/20/1979	
O2N/26E-23CAD	M	LINDSAY	1145	1971	I	T	200	980	299.00	12/22/1971	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
O2N/26E-28CDD	M	GRIEB RANCH	549	1968	U	--	--	1080	500.00	12/05/1978	
O2N/26E-29CCD	M	GRIEB RANCH	*1004	1971	U	--	--	1060	465.60	12/05/1981	H, ? (?)
O2N/27E-01BDD	U	O'KANE	*886	1962	U	--	--	800	348.45	02/10/1981	H, 554 (1954), DEEPENINGS
O2N/27E-02DAA1	U	O'KANE	*826	1964	U	--	--	810	389.92	02/24/1982	799 (1957)
O2N/27E-02DAA2	U	O'KANE	1205	1978	I	T	200	810	349.00	03/27/1978	
O2N/27E-07AAB	M	MADER	1461	1971	I	T	700	1030	505.66	02/25/1982	
O2N/27E-08DAB	M	MADER	*1251	1970	I	T	200	1055	863.00	08/10/1979	800 (1970), 1190 (1970)
O2N/27E-11ADD	U	HALE	525	1952	U	--	--	845	305.00	02/11/1980	H
O2N/27E-12BBB	U	HALE & HANSON	959	1959	I	T	150	825	58.85	03/12/1979	
O2N/27E-12BDB	U	BUTTER CR. EQUIP.	--	--	U	--	--	855	43.05	08/15/1979	
O2N/27E-14CCB	U	MCCARTY	*785	1968	U	T	75	905	388.00	12/07/1978	280 (1952)
O2N/27E-20CAA	M	TUCKER	*1148	1981	I	T	400	1135	596.40	02/10/1981	H, 1103 (1968)
O2N/27E-22BBD	U	JOHNSON	778	1968	H	T	15	935	430.00	08/27/1980	
O2N/27E-26CBD	U	SARVIS	932	1962	I	T	125	1180	400.00	08/25/1980	
O2N/27E-27BCC1	U	JOHNSON	598	1957	I	T	50	980	132.80	03/24/1982	
O2N/27E-27BCC2	U	JOHNSON	120	--	U	U	--	980	--	---	
O2N/27E-27CBC	U	ASHBECK	240	1967	I	T	15	996	139.27	12/07/1978	H
O2N/27E-28ADD	M	TUCKER	263	--	I	T	60	990	50.00	01/03/1962	
O2N/27E-32DBA	M	PERKINS	936	1969	I	T	400	1210	302.90	02/12/1981	H
O2N/28E-01DBB	U	EAGLE RANCH	640	1975	I	T	200	925	126.85	02/28/1980	
O2N/28E-02BDD	U	EAGLE RANCH	*862	1976	I	T	200	841	102.70	02/14/1980	792 (1974)
O2N/28E-02DAA	U	EAGLE RANCH	690	1975	I	T	200	804	39.79	02/10/1980	H
O2N/28E-07AAD1	U	HALE	*702	1966	--	--	--	855	345.20	02/10/1981	H, 400 (?)
O2N/28E-07AAD2	U	HALE	*690	1968	I	T	400	855	344.00	02/11/1980	155 (1966)
O2N/28E-10ABA	U	SCHILLER	908	1976	I	T	400	925	157.03	02/14/1980	
O2N/28E-10DAB	U	VEY RANCH	231	1977	S	S	--	950	42.00	01/14/1977	
O2N/28E-17CCA	U	HALE	--	--	U	--	--	1020	108.10	08/21/1980	
O2N/30E-01CCB	U	HOLMES	298	1970	I	S	7.5	930	144.60	06/30/1980	
O2N/30E-04DDB	U	HINES	428	1978	I	S	50	1000	226.00	02/23/1982	
O2N/30E-06ADD	U	CUNNINGHAM SHEEP CO.	233	1946	I	S	10	730	--	---	
O2N/30E-09BCB	U	ARISTEQUI	130	1977	I	S	--	790	3.90	08/15/1978	
O2N/30E-09BCD	U	ARISTEQUI	80	1970	H	S	10	830	61.30	06/30/1980	
O2N/30E-10ABC	U	HENDRICKSON	130	1973	I	S	25	810	106.50	06/30/1980	
O2N/30E-10BCA	U	SKILLMAN	173	1969	I	T	25	795	51.76	06/30/1980	
O2N/30E-11AAB	U	GENTNER	140	1972	I	S	15	800	69.84	07/25/1979	
O2N/30E-28BCC	U	CUNNINGHAM SHEEP CO.	81	--	U	--	--	1380	60.00	02/12/1980	
O2N/30E-32AAD	U	CUNNINGHAM SHEEP CO.	--	--	--	--	--	1610	flowing	02/15/1980	
O2N/31E-12DDC	U	REITH WATER DIST.	289	--	P	S	3	1090	121.45	06/30/1980	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
02N/31E-13CAC	U	JOHNS, SMITH, BEAMER	--	--	S	--	--	1100	8.00	07/25/1978	
02N/31E-13DBD	U	JOHNS, SMITH, BEAMER	451	--	I	T	75	980	103.34	02/28/1980	
02N/32E-01ADC	U	MARSHBANKS	363	1968	I	S	7.5	1185	241.85	08/29/1978	
02N/32E-01CDC	U	WHITE	575	1954	C	S	3.5	1100	206.50	01/06/1975	
02N/32E-02CCD	U	CITY OF PENDLETON	700	1958	P	--	--	1073	198.52	12/30/1980	H
02N/32E-02DDD	U	CITY OF PENDLETON	*774	1949	P	T	250	1100	215.50	02/23/1982	935 (1948)
02N/32E-04DCB	U	BLUE MTN. COM. COLL.	600	1980	I	--	--	1200	281.50	07/14/1980	
02N/32E-07ABD	U	BROGOITTI	399	1957	I	T	75	1092	227.40	08/17/1978	
02N/32E-07CBD	U	REITH WATER DIST.	188	1914	P	--	--	980	65.00	00/00/1914	
02N/32E-07CCA	U	REITH WATER DIST.	287	1942	P	T	40	870	101.80	02/11/1981	
02N/32E-08ACB	U	CITY OF PENDLETON	375	1966	P	S	--	1005	--	--	
02N/32E-08ADC	U	COX	212	1974	I	S	15	1009	60.00	06/12/1974	
02N/32E-08CAB1	U	AINSWORTH	165	1974	H	S	--	995	121.00	07/08/1980	
02N/32E-08CAB2	U	EDWARDS	138	--	H	S	3	1204	99.70	08/30/1978	
02N/32E-09AAC	U	CITY OF PENDLETON	851	1954	P	T	125	1060	215.00	07/08/1980	
02N/32E-09BDA	U	EASTERN OREGON HOSP	500	1976	I	T	200	1000	219.65	07/08/1980	
02N/32E-10BDA	U	CITY OF PENDLETON	761	1949	P	T	350	1060	184.94	02/23/1982	
02N/32E-10CCD	U	CITY OF PENDLETON	1008	1952	P	T	100	1070	281.94	08/23/1978	
02N/32E-11DBC	U	ANDREWS	315	--	I	S	5	1268	--	--	
02N/32E-13ADD	U	PETERSON	440	1977	H	S	--	1215	8.00	08/23/1978	
02N/32E-15ABB	U	MURPHY	393	1974	I	S	20	1120	125.00	09/09/1974	
02N/32E-16BAB	U	CITY OF PENDLETON	1500	1965	P	--	--	1060	191.35	02/24/1981	H
02N/32E-16CAD	U	RIDDLE	316	--	H	S	--	1080	60.90	07/08/1980	
02N/32E-17CDD	U	KULM	*1297	1981	I	T	200	1320	463.00	07/09/1980	920 (1980)
02N/32E-18CCB	U	MCBROOM	510	1977	I	S	--	1000	122.20	07/14/1980	
02N/32E-19BCB	U	MCBROOM	229	--	I	T	30	1060	97.40	07/14/1980	
02N/32E-19CCA	U	KULM	233	1970	I	T	200	1060	96.20	08/16/1978	
02N/32E-19CDB	U	ELLIOTT	572	1980	H	--	--	1340	407.30	07/09/1980	
02N/32E-20BDD	U	KULM	303	1973	I	S	2	1100	193.00	07/16/1973	
02N/32E-21BBB	U	TOLZMAN	300	1974	I	S	5	1090	204.60	07/08/1980	
02N/32E-21BCD	U	DOUGHERTY	320	1966	H	S	5	1095	180.00	07/06/1966	
02N/32E-21CBA	U	HILL	*425	1975	I	S	--	1181	314.60	08/17/1978	313 (1961)
02N/32E-22DAD	U	MILLER	403	1973	H	S	--	1197	300.00	12/29/1972	
02N/32E-22DDA	U	EARLLEY	396	1973	I	S	--	1198	335.00	01/17/1973	
02N/32E-22DDD	U	EARLLEY	300	--	P	T	20	1150	13.60	07/07/1980	
02N/32E-27CDC	U	GREEN MEADOW WATER	280	1953	I	T	40	1080	139.40	07/14/1980	
02N/32E-29BCA	U	KORVOLA	*420	1967	I	T	75	1200	--	--	300 (1967)
02N/32E-32DAB	U	PETERSON	620	1963	I	T	25	1140	53.70	08/16/1978	
02N/32E-33BCA	U	STRAUGHN	--	--	H	S	--	1240	40.00	07/15/1980	
02N/32E-34ABB	U	ZAHA	240	--	H	S	5	1220	50.85	08/17/1978	
02N/32E-34ABD	U	FITTENER	101	--	I	S	--	1158	18.20	07/15/1980	
02N/32E-34BAA	U	AYERS	265	1977	H,I	--	--	1150	10.00	08/16/1978	
02N/32E-34BBA	U	WARD									

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
02N/32E-34BDA1	U	ROSE	275	--	H,I	S	1160	16.60	07/15/1980	
02N/32E-34BDA2	U	HUBEL	110	1970	H	C	1160	17.50	07/15/1980	
02N/33E-02CBC1	U	PHELPS	105	1974	H	S	1255	22.15	08/29/1978	
02N/33E-02CBC2	U	COMSTOCK	99	1974	H	S	1259	31.10	08/29/1978	
02N/33E-02CBD1	U	MILLS	346	1970	I	S	1258	88.40	07/07/1980	
02N/33E-02CBD2	U	BEEN	359	1974	H	S	1260	92.70	08/29/1978	
02N/33E-03CBB	U	HAUGEWOOD	481	1971	H	S	10	200.00	09/27/1971	
02N/33E-03CBD	U	WILKINSON	125	1968	H	S	1221	47.60	07/07/1980	
02N/33E-03DAD	U	SCHROLL	350	1976	H,I	S	1250	82.35	08/29/1978	
02N/33E-07ADA	U	GREENFIELD	*525	1977	H	S	1172	314.00	08/28/1977	89 (?)
02N/33E-07ADB	U	ENGLISH	500	1977	H	S	1161	106.00	06/10/1977	
02N/33E-07BCB	U	HALL	165	--	C	S	1128	16.70	08/31/1978	
02N/33E-07DAA2	U	KEENER	103	1970	U	--	1220	92.40	08/31/1978	
02N/33E-07DAA3	U	KEENER	530	1973	H	S	1220	178.00	08/06/1973	
02N/33E-08AAC	U	BERLAND	143	1973	H	S	1168	49.90	07/02/1980	
02N/33E-08ACB	U	LARSEN	180	1971	H,I	S	1170	60.00	05/07/1971	
02N/33E-08ACC1	U	OYLEAR	156	1967	H	S	1180	97.90	08/30/1978	
02N/33E-08BAD	U	DUFF	410	1974	I	S	40	157	150.00	12/20/1974
02N/33E-08BCD	U	HART	*225	1975	S	S	1	1155	161.00	07/02/1980
02N/33E-08BCD1	U	BOWMAN	115	1969	I	S	3	1185	86.05	07/02/1980
02N/33E-08CAC1	U	DEAN	260	--	I	S	3	1234	57.30	08/30/1978
02N/33E-08CAC2	U	BISSINGER	106	--	H	S	2	1238	43.30	08/30/1978
02N/33E-08CAD2	U	BOWMAN	*262	1968	I	S	5	1210	110.30	08/30/1978
02N/33E-08CBA	U	SMITH	*122	1971	H	S	3	1222	67.00	09/02/1971
02N/33E-08CBB	U	PANNING	*375	1971	H	S	3	1229	326.75	08/31/1978
02N/33E-08CBC	U	LOVETT	*575	1975	H	S	10	1260	175.00	04/10/1975
02N/33E-08CBD2	U	SMETHURST	387	--	H	S	5	1230	77.80	08/31/1978
02N/33E-08CBD3	U	MULLER	325	--	I	S	3	1236	56.80	08/31/1978
02N/33E-08DAC	U	BOWMAN-PURCHASE	779	1949	H	S	20	1223	99.60	07/02/1980
02N/33E-08DBD1	U	HATHAWAY	100	1974	H	S	--	1180	65.60	07/02/1980
02N/33E-08DBD3	U	BOWMAN-PURCHASE	*968	1959	U	T	50	1205	65.70	07/02/1980
02N/33E-10BCB	U	LAUGLIN	252	--	H	S	1	1216	92.80	08/29/1978
02N/33E-10BCC	U	KELLY	264	--	H	S	1.5	1219	108.20	07/07/1980
02N/33E-13CCA1	U	HAUGEWOOD	--	--	H	C	0.5	1510	9.30	08/29/1978
02N/33E-13CCA2	U	HAUGEWOOD	--	--	U	S	--	1520	61.30	07/02/1980
02N/33E-13CCB	U	HAUGEWOOD	230	1978	I	S	40	1530	120.30	02/11/1980

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	USE OF WATER	TYPE OF PUMP	PUMP HORSE- POWER	ALTI- TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
02N/33E-14DAC	U	CITY OF PENDLETON	*800	P	T	150	1466	108.00	01/09/1980	452 (1966)
02N/33E-18DCG	U	CURL	565	I	S	37.5	1260	36.00	04/07/1976	
02N/33E-20BBB	U	UMBARGER	*1002	I	T	100	1282	16.00	11/04/1970	608 (1969)
02N/33E-22BBC	U	BONBRIGHT	142	I	T	5	1416	22.50	07/02/1980	
02N/33E-22BCA	U	RHODE	260	I	S	--	1403	18.00	11/07/1979	
02N/33E-28BAA	U	MCDONALD	--	I	S	--	1410	0.00	07/07/1980	
02N/33E-28BCD	U	DUBY	--	H	S	--	1425	5.50	07/07/1980	
02N/33E-28BDB	U	CORBETT	430	H	S	10	1420	+12.00	07/01/1965	
02N/33E-28DCD	U	HERITAGE IMPROVMT.	238	P	T	25	1493	+ 9.00	04/27/1970	
02N/33E-28DDD	U	HARLEY	450	I	S	--	1497	40.00	01/25/1977	
02N/33E-29DAC	U	THORNE	258	H	S	20	1417	10.00	04/01/1975	
02N/33E-31CDD	U	SIMMONS	292	I	S	5	1415	54.45	07/14/1980	
02N/33E-32CCA1	U	UMBARGER	925	I	T	125	1465	--	--	
02N/34E-17DCG	U	FOWLER	450	I	T	40	1710	+5.00	09/29/1958	
02N/35E-05ADD	U	DAVIS	*90	H	C	2	1560	+7.00	01/14/1970	90 (1969)
02S/22E-15CAD	G	PETTYJOHN	*575	I	T	100	1320	44.83	02/15/1980	276 (1951)
02S/22E-15DCG	G	BEAMER	300	I	T	150	1350	60.00	11/28/1967	
02S/22E-23CBC	G	BEAMER	370	I	T	100	1390	30.00	02/10/1971	
02S/24E-25CDD	M	RUGG	--	I	T	50	1710	--	--	
02S/24E-25DBB	M	RUGG	--	U	--	--	1710	21.40	07/31/1980	
02S/24E-36DAC1	M	WEST	322	U	T	60	1705	9.16	02/11/1981	
02S/24E-36DAC2	M	WEST	*678	I	T	60	1710	97.50	02/11/1981	400 (1968)
02S/25E-03CCA	M	PECK	*607	I	T	75	1750	228.20	07/24/1980	503 (1969)
02S/25E-04CAA	M	PECK	203	I	T	7.5	1550	47.00	06/28/1960	
02S/25E-11DDD	M	PECK	227	I	T	7.5	1770	98.00	03/00/1958	
02S/26E-07ACB	M	EVANS	260	I	--	--	1659	FLOWING	11/30/1971	
02S/26E-08CCC	M	MICHOS	202	I	S	--	1700	+6.93	01/25/1959	
02S/26E-17BDA	M	DURFEY	--	I	T	75	1722	118.30	09/07/1979	
02S/26E-20AAB	M	GRAHAM	144	I	T	50	1780	31.10	07/22/1980	
02S/26E-21BCC	M	GRAHAM	605	I	T	50	1790	130.00	11/23/1971	
02S/26E-21CAA1	M	KINZUA CORP.	400	N	S	--	1800	--	--	
02S/26E-21CAA2	M	KINZUA CORP.	450	N	S	1	1820	22.70	07/22/1980	
02S/26E-21CAB	M	KINZUA CORP.	400	N	S	30	1810	62.10	07/22/1980	
02S/26E-22CDC	M	MARLATT	--	H	S	5	1960	99.90	07/23/1980	
02S/26E-23CAD	M	SCHULTZ	380	I	S	--	2080	24.60	07/22/1980	
02S/26E-23CBA	M	SCHULTZ	550	H	S	1.5	2100	142.20	07/22/1980	
02S/26E-26CDD	M	HEPPNER FAIRGROUNDS	170	I	S	30	2000	37.00	07/23/1980	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	PUMP TYPE	PUMP HORSE- POWER	ALTI- TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
02S/27E-31DD	M	CITY OF HEPPNER	159	1952	P	T	40	2190	45.60	02/10/1981	H
02S/27E-32CBD	M	WILKINSON	*460	1970	I	T	50	2200	31.00	02/22/1970	375 (1968)
02S/27E-32DBC	M	WILKINSON	*700	1977	I	S	--	2200	27.70	07/23/1980	440 (1977)
02S/27E-36DAA	M	ASHBECK	*480	1969	I	T	40	3140	--	--	348 (1969)
02S/28E-12BDC	M	HUGHES	--	--	I	S	--	2500	24.70	07/24/1980	
02S/28E-12CCD	M	HUGHES	--	--	I	S	--	2420	13.20	02/09/1981	
02S/28E-29CBB	M	GREENUP	197	1973	I	T	50	2700	0.00	07/23/1980	
02S/28E-32DDB	M	GREENUP	375	1968	I	T	25	2900	30.00	05/12/1968	
02S/30E-16BCC	U	DOHERTY	250	1978	I	T	20	2300	24.12	02/09/1981	
02S/30X-23ADD	U	KOPP	*819	1966	H	S	2	2720	234.46	02/09/1981	500 (1963)
02S/31E-01BCA	U	LOW	--	--	I	C	5	2050	3.40	02/12/1980	
02S/31E-01CBA	U	HUTCHISON	235	1961	I	S	--	2080	11.00	10/10/1978	
02S/32E-03CCD	U	DRAPER	440	1968	I	S	20	2140	13.30	02/12/1980	
02S/33E-07CCB	U	WELLS	*810	1976	I	S	30	2420	32.70	10/11/1978	360 (1976)
03N/20E-32DAA	G	WOELPERN	210	1953	H	S	1.5	850	100.40	08/11/1980	
03N/20E-34DBC	G	COMPTON	600	1970	S	S	--	751	470.00	07/15/1970	
03N/21E-21CCA	G	CITY OF ARLINGTON	250	1972	P	T	15	350	16.10	08/07/1980	
03N/21E-28BBD	G	CITY OF ARLINGTON	634	1948	P	T	60	300	39.36	02/12/1981	H
03N/21E-34ABC	G	HULDEN	315	1954	I	T	50	430	194.30	02/12/1981	H
03N/22E-23BCB	G	PATTON	340	1968	H	S	3	380	124.86	02/14/1981	
03N/23E-09DDB	M	TAGGARS	700	1975	H	S	--	555	277.44	02/11/1980	
03N/23E-25BDC	M	BOEING CO.	790	1964	N	--	--	617	152.40	02/11/1980	H
03N/24E-33ADC	M	PGE	565	1961	H, I	S	--	671	192.33	02/11/1980	
03N/26E-04AAD1	M	BULOW	680	1960	I	T	150	630	237.62	02/23/1982	
03N/26E-04AAD2	M	BULOW	790	--	--	U	150	630	230.00	02/23/1982	
03N/26E-04DBC	M	BULOW	*835	1982	I	S	--	645	250.90	08/12/1980	623 (1960)
03N/26E-05CBD	M	SABRE FARMS	950	1961	U	T	30	641	282.72	02/11/1981	H
03N/26E-10CCA	M	BREWER FARMS	666	1958	I	T	200	630	155.00	--	1958
03N/26E-14ACA	M	WARREN	551	--	I	T	200	605	--	--	
03N/26E-27DCD	M	SUN RIVER FARMS	--	--	S	S	--	695	133.00	09/12/1980	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE- POWER	ALTI- TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
03N/27E-04DD	M	HANSELL	585	1979	U	--	--	580	126.45	02/24/1982	
03N/27E-08AAC	M	MARTIN	725	1960	I	T	125	585	226.61	02/12/1981	
03N/27E-25DDC	U	SAYLOR	591	1960	I	T	100	750	301.25	12/07/1978	H
03N/28E-01ADD	U	OREGON STATE HWY	135	1966	R	S	5	580	13.05	07/19/1978	
03N/28E-02CDA	U	ANDREWS	*625	1976	I	T	125	613	210.00	06/01/1976	110 (1975)
03N/28E-06DCC	U	HORN	1136	1968	I	T	250	670	178.00	04/01/1968	
03N/28E-08ADB	U	WALKER	*437	1967	I	--	--	651	71.63	03/14/1979	250 (1966)
03N/28E-18ABD	U	HORN	1095	1968	I	T	350	642	281.80	02/13/1980	
03N/28E-23BAB	U	L & L FARMS	936	1976	I	T	350	650	280.20	02/14/1980	
03N/28E-23DCB	U	L & L FARMS	1012	1976	I	T	400	675	321.62	02/14/1980	
03N/28E-26BAA	U	L & L FARMS	911	1976	I	T	350	680	349.32	02/10/1981	
03N/28E-28ADA	U	L & L FARMS	830	1968	I	T	150	690	352.25	02/10/1981	
03N/28E-34DBA	U	EAGLE RANCH	830	1976	I	T	500	780	300.00	03/11/1980	
03N/28E-35BAA	U	EAGLE RANCH	*1255	1979	I	T	300	770	428.10	02/09/1981	875 (1975), 1055 (1976)
03N/28E-35CAA	U	EAGLE RANCH	*1067	1979	I	T	250	775	432.60	02/09/1981	H, 537 (1974), 591 (1976)
03N/28E-36ABB	U	EAGLE RANCH	*1005	1976	I	T	200	805	114.25	07/13/1978	931 (1974)
03N/28E-36DBB	U	EAGLE RANCH	640	1974	I	T	400	860	177.17	12/10/1980	
03N/29E-01CBB	U	CIRCLE C FARMS	1065	1974	I	T	350	830	363.20	02/12/1980	
03N/29E-04BBA	U	MILLS MINT FARM	*925	1979	I	S	40	640	99.03	06/28/1979	760 (1977)
03N/29E-04DDD	U	KOESTER	*1380	1978	I	S	250	802	274.70	02/11/1980	1360 (1978)
03N/29E-05BAD	U	OHLSEN	*235	1952	I	--	--	610	10.30	06/27/1979	80 (?)
03N/29E-09CDD	U	SEIBLE	1117	1977	I	T	350	655	302.97	02/08/1981	
03N/29E-10ABB	U	LEHMAN ENTERPRISES	1380	1978	I	S	200	804	246.00	02/11/1980	
03N/29E-11ACC	U	CIRCLE C FARMS	*696	1979	I	T	200	850	76.20	02/08/1981	675 (1954)
03N/29E-11DDD	U	CIRCLE C FARMS	1145	1975	I	T	400	885	114.84	12/10/1980	
03N/29E-12BDC	U	CIRCLE C FARMS	*1455	1978	I	T	400	855	78.18	02/08/1981	1126 (1977), 1281 (1978)
03N/29E-12DAA	U	CIRCLE C FARMS	1189	1972	I	T	200	860	47.65	02/08/1981	
03N/29E-14BAC	U	CIRCLE C FARMS	1492	1978	I	T	200	942	85.00	05/17/1980	
03N/29E-16AAD	U	CITY OF ECHO	*820	1964	I	U	--	790	337.60	02/12/1981	H, 490 (1951)
03N/29E-16ACA	U	CITY OF ECHO	496	1951	P	U	60	650	220.00	02/13/1981	
03N/29E-16ADA	U	CITY OF ECHO	600	1974	P	U	80	715	167.00	02/13/1981	
03N/29E-19ACC	U	BROWN	1125	1980	I	T	450	760	353.20	01/22/1981	
03N/29E-20BBB	U	ORTIZ	*300	1974	H	--	--	690	194.88	12/10/1980	202 (1973)
03N/29E-20DCC	U	BROWN	1027	1977	I	T	450	810	464.76	02/08/1981	
03N/29E-23AAC	U	COPPINGER	761	1976	I	T	100	904	63.44	02/08/1981	
03N/29E-24AAD	U	COPPINGER	318	1976	I	T	100	1003	160.00	02/15/1980	
03N/29E-24ACD	U	COPPINGER	1012	1976	I	T	300	1070	246.93	02/15/1980	
03N/29E-30AAC	U	BROWN	800	--	I	T	300	790	--	--	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
03N/29E-30DDA	U	BROWN	660	I	T	300	830	510.73	06/10/1980	
03N/30E-01DBA	U	BRANSTETTER	925	I	T	250	1140	254.44	02/08/1981	H
03N/30E-06CBD	U	CIRCLE C FARMS	*1455	I	T	400	880	103.27	02/08/1981	675 (1971), 1052 (1971)
03N/30E-07ABC	U	REESE	600	U	--	--	900	121.75	02/08/1981	
03N/30E-07BBD	U	CIRCLE C FARMS	*1205	I	T	--	870	97.21	02/08/1981	H, 980 (1963)
03N/30E-09CBA	U	REESE	*598	I	T	40	970	104.91	02/08/1981	304 (1967), 379 (1967)
03N/30E-17ADD	U	RHODE	*908	I	T	200	960	110.20	02/08/1981	H, 515 (1976)
03N/30E-20CCC	U	ANDERSON	1107	I	T	250	1099	231.40	02/12/1981	
03N/30E-22CCA	U	REESE	825	I	U	--	1115	234.60	02/08/1981	
03N/30E-23DDD	U	TEMPLE	*593	I	T	125	1228	396.10	02/12/1981	444 (?)
03N/30E-30CAA	U	PETRIK	*1086	I	T	200	1130	227.90	02/15/1980	835 (1975)
03N/31E-19CBC	U	REW RANCHES	500	I	S	5	1220	149.20	06/26/1980	
03N/31E-30ABC	U	REW RANCHES	1021	I	T	100	1300	449.30	02/12/1981	H
03N/31E-31CDC	U	ISOM	*1218	I	S	--	1420	149.20	06/26/1980	890 (1963)
03N/32E-22BAA	U	MUMM	240	I	S	--	1598	197.80	07/01/1980	
03N/32E-24DAA	U	ROSENBURG	185	H	S	5	1465	65.24	06/30/1980	
03N/32E-29BBB	U	MILLER	365	H	S	1.5	1426	--	--	
03N/33E-19BCA	U	ROEHLK	600	H	S	--	1542	--	--	
03N/33E-24DCA	U	OSU AG. RESEARCH	268	T	S	7.5	1493	--	--	
03N/33E-24DDC	U	US DEPT. OF AG.	400	T	S	10	1498	47.11	02/22/1982	
03N/33E-27ADD2	U	DUFF	610	I	S	5	1420	--	--	
03N/33E-28ABA	U	SMITH-DUFF RANCHES	742	I	S	30	1300	417.00	04/16/1973	
03N/33E-31DCB	U	RUTEN	608	I	T	50	2230	247.00	08/00/1956	
03N/33E-32BBD	U	ELDER	110	H	J	0.7	1190	9.30	07/01/1980	
03N/34E-03BAC	U	DAVIS	*1263	I	T	50	1550	101.72	03/12/1981	H, 298 (1953)
03N/34E-03DBB	U	LEIUALLEN	173	I	T	50	1570	88.00	10/07/1964	
03N/34E-04BCC	U	DAVIS	1680	I	T	200	1585	222.50	06/17/1980	
03N/34E-04DAA	U	CITY OF ADAMS	650	P	S	--	1512	164.20	06/18/1980	
03N/34E-04DAB	U	CITY OF ADAMS	177	P	T	10	1515	117.20	06/18/1980	
03N/34E-04DAD	U	RAND	435	I	S	3	1510	72.00	08/31/1968	
03N/34E-10BBB	U	COPPOCK	*451	H	S	3	1520	71.50	06/17/1980	238 (1950)
03N/34E-11AAC	U	DAVIS	*1030	I	--	--	1660	236.20	06/18/1980	347 (1940)
03N/34E-13CAD	U	BARNETT-RUGG INC.	1910	I	T	100	1809	342.00	09/06/1978	
03N/34E-18CBB	U	ROTHROCK	870	I	S	20	1439	--	--	
03N/34E-23ABB1	U	BARNETT-RUGG INC.	660	U	--	--	1779	62.90	09/06/1978	
03N/34E-23ABB2	U	RUGG	*1100	I	T	160	1780	283.30	02/10/1981	880 (1968)

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	TYPE OF PUMP	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
03N/35E-04CBD	U	SMITH	1103	1966	I	T	250	2060	318.00	12/14/1966	
03N/35E-07AAA	U	DAVIS	1787	1970	I	S	--	1980	328.64	02/11/1980	
03N/35E-35ADB	U	HEISE	80	1969	H	C	0.2	1670	5.90	09/06/1978	
03S/20E-21BCC	G	EAKIN	500	1970	U	--	--	2718	365.00	06/02/1970	
03S/21E-15CAC	G	PRYOR	424	1975	H	S	--	2600	223.45	02/09/1981	
03S/23E-25CCA	M	ZINTER	520	1973	I	S	5	2540	500.00	08/04/1980	
03S/24E-23DCC	M	HILL	355	1968	I	S	--	2410	157.80	08/04/1980	
03S/25E-23AAA	M	MAHONEY	*414	1968	I	S	15	2410	140.50	08/04/1980	285 (1965)
03S/25E-34BBD	M	WRIGHT	250	1968	I	S	--	2150	81.50	07/31/1980	
03S/25E-34DDA	M	WRIGHT	*1000	1980	I	S	100	2150	26.45	02/13/1980	750 (1979)
03S/25E-35CCA	M	WRIGHT	*418	1969	I	S	--	2160	33.00	03/11/1969	320 (1968)
03S/26E-02DCA	M	THORP	575	1971	N	U	--	2100	36.20	07/23/1980	
03S/27E-02DBD	M	CITY OF HEPPNER	191	1963	P	T	20	2480	+37.00	07/23/1980	
03S/27E-06AAC	M	WILKINSON	410	1977	I	T	50	2360	8.00	10/28/1977	
03S/28E-07CAD	M	CITY OF HEPPNER	422	1969	P	T	50	2700	9.69	12/13/1980	H
03S/28E-09ADA	M	GREENUP	298	1968	I	T	40	3200	44.40	07/23/1980	
03S/28E-29DAA1	M	CITY OF HEPPNER	352	1932	P	T	25	3021	167.25	02/10/1981	
03S/30E-32DBA	U	DOHERTY	375	1978	I	T	--	3890	26.40	08/14/1980	
03S/30X-01BAA	U	PEDRO	99	--	U	--	--	3180	23.72	03/14/1979	H
04N/22E-35BAA	G	UNION PACIFIC RR.	305	1965	N	--	--	306	0.00	07/ /1965	
04N/24E-13BBC	M	OREGON STATE HWY	155	1971	I	--	--	280	18.00	09/14/1971	
04N/24E-14CCA	M	HENDRIX	*541	1978	I	T	75	325	65.00	11/28/1978	185 (?)
04N/24E-14DAC	M	EADES	*725	1980	I	S	25	310	17.00	08/11/1980	460 (1977)
04N/24E-15BCD	M	BOEING CO.	110	--	I	--	--	315	69.00	02/13/1978	
04N/24E-17DAB	M	UNION PACIFIC RR.	216	1965	H	S	2	318	63.50	08/11/1980	
04N/24E-22ACC	M	BOEING CO.	100	1954	H	T	--	365	40.00	1954	
04N/25E-08DAD	M	CITY OF BOARDMAN	585	1965	P	--	--	300	60.00	--	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	PUMP TYPE	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
04N/25E-09ACD	M	BOARDMAN CEMETERY	470	1964	I	T	20	295	34.67	02/25/1982	H
04N/25E-09CAA	M	RIVERSIDE HIGH SCH.	*349	1967	Z	--	--	295	159.13	12/04/1978	255 (1967)
04N/25E-09CEA	M	CITY OF BOARDMAN	--	--	P	T	100	300	--	--	--
04N/25E-09DCD	M	PRICHARD	*590	1978	I	--	--	300	161.00	08/06/1980	30 (NOT SEALED) (1973)
04N/25E-10BDC	M	PORT OF MORROW	685	1978	C	T	150	280	+43.80	02/26/1982	
04N/25E-10CCB	M	PRICHARD	502	1975	I	T	100	285	250.00	08/06/1980	
04N/25E-13ACD	M	HILLVIEW DAIRY	335	1969	U	--	--	395	44.65	02/26/1982	H
04N/25E-13ADA	M	HILLVIEW DAIRY	555	1975	I	S	40	380	44.95	02/26/1982	
04N/25E-18ABD	M	WARREN	--	--	H	--	--	295	+38.10	08/11/1980	
04N/27E-05ABB	M	U.S. ARMY DEPOT	710	1954	F,H	--	--	540	182.00	02/19/1980	
04N/27E-05BAA	M	U.S. ARMY DEPOT	682	1957	H	--	--	520	171.00	02/19/1980	H
04N/27E-27DAD1	U	HANSELL BROS.	543	1942	I	T	200	603	188.00	02/19/1980	
04N/27E-36ABB1	U	HAMPTON	213	--	I	S	15	575	69.60	08/18/1980	
04N/27E-36ABB2	U	HAMPTON	--	--	I	S	15	575	--	--	
04N/27E-36ADC	U	HAMPTON	--	--	I	S	15	575	--	--	
04N/27E-36BBA	U	HANSELL BROS.	812	1958	U	--	--	582	208.00	02/12/1980	H
04N/28E-01BAD	U	RAY	335	1974	H	S	2	500	57.00	07/27/1980	
04N/28E-01BDC	U	BISHOP	480	--	I	S	5	480	95.20	08/18/1980	
04N/28E-01CBB	U	VANDORN	223	1976	H	S	--	478	60.02	07/17/1979	
04N/28E-08DCB	U	SCHULTZ	265	1968	I	S	10	505	56.35	02/11/198	
04N/28E-08DDC	U	SCHULTZ	*215	1968	I,H	S	--	490	130.00	08/01/1979	108 (?)
04N/28E-10CDD	U	CITY OF HERMISTON	500	1924	P	T	40	450	--	--	
04N/28E-11ACD	U	FOWLER	110	1965	I	S	--	450	11.50	07/17/1979	
04N/28E-11BAB	U	CITY OF HERMISTON	1041	1968	P	T	200	447	157.54	02/09/1981	
04N/28E-11CAD	U	CITY OF HERMISTON	918	1949	P	T	75	448	209.40	07/17/1979	
04N/28E-11CCD	U	CITY OF HERMISTON	962	1954	P	T	200	450	75.67	02/25/1982	H
04N/28E-12DDD	U	HERSBERGER	223	1974	I	S	30	635	84.13	07/16/1979	
04N/28E-14CDA	U	HERMISTON CEM. DIST.	680	1974	I	T	25	585	286.10	08/14/1980	
04N/28E-16BAB	U	INTERFAITH CHRISTIAN	500	1978	I	S	25	480	160.82	08/13/1979	
04N/28E-17ABD	U	KING RANCHES	203	1972	H	S	--	500	130.70	08/14/1980	
04N/28E-23ABD	U	CIRCLE C FARMS	1180	1979	I	T	--	640	280.00	10/16/1979	
04N/28E-23BDB	U	OSU AG. EXP. STA.	875	1977	I	S	100	625	304.81	02/09/1981	
04N/28E-23DDB	U	CIRCLE C FARMS	317	1977	I	T	150	650	126.00	05/09/1977	
04N/28E-24ADC	U	CIRCLE C FARMS	*1145	1980	I	--	--	660	290.00	03/08/1980	765 (1980)
04N/28E-24BDC	U	CIRCLE C FARMS	917	1968	I	T	350	640	43.00	02/20/1968	
04N/28E-24DCA	U	CIRCLE C FARMS	1137	1977	I	T	350	656	287.00	07/04/1979	
04N/28E-26CCA	U	SIMPLOT	1042	1978	C	T	200	555	240.00	08/28/1981	
04N/28E-27DAA	U	HINKLE RR. YARD	553	1950	N	T	150	630	356.78	02/09/1981	
04N/28E-27DAC	U	HINKLE RR. YARD	569	1971	N	T	150	632	302.50	02/09/1981	H
04N/28E-32ACB	U	MUELLER	200	1967	U	--	--	550	39.00	04/28/1967	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	USE OF DRILLED WATER	TYPE OF PUMP	PUMP HORSE- POWER	ALTI- TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
O4N/29E-01ACD	U	POWELL-GOODIN FARMS	1025	I	T	125	684	122.30	02/13/1980	
O4N/29E-03CCD	U	LATHAM	754	I	T	10	628	20.00	08/08/1978	
O4N/29E-05CCB	U	BALDWIN	200	H	S	7.5	535	99.60	06/20/1980	
O4N/29E-05DDA	U	WALCHLI	772	I	T	20	608	66.20	02/13/1981	
O4N/29E-06ABB	U	KERNS	200	I	S	5	460	12.30	08/08/1978	
O4N/29E-06BAA	U	MOON	480	I	S	25	470	31.70	06/20/1980	
O4N/29E-07ACD	U	PERKINS	480	I	S	10	615	224.10	06/20/1980	
O4N/29E-07CAA	U	WESTON	395	I	S	--	615	158.80	08/08/1978	
O4N/29E-10BCA	U	BURNS	1350	I	T	150	655	88.00	08/15/1981	
O4N/29E-10DBC	U	BURNS	465	I	S	30	680	63.87	03/11/1980	
O4N/29E-13CCA	U	RATRAY	425	I	S	50	680	34.40	08/09/1978	
O4N/29E-13DAC	U	RATRAY	527	I	T	250	712	76.80	06/23/1980	
O4N/29E-17CCA	U	KOESTER	*245	I	T	75	692	84.90	08/10/1978	205 (1952)
O4N/29E-18CDC	U	CHOWNING	227	I	S	--	654	65.50	06/24/1980	
O4N/29E-18DCB	U	CHOWNING	*1000	I	T	125	660	38.00	09/25/1970	643 (1970)
O4N/29E-18ddb	U	CHOWNING	1100	U	--	--	672	184.26	02/08/1981	
O4N/29E-20DCB	U	KOESTER	1361	I	T	250	678	306.00	02/14/1980	
O4N/29E-24ACB	U	ZABRANSKY	*1102	I	T	150	725	270.00	11/20/1965	95 (1965)
O4N/29E-24CDD	U	ZABRANSKY	1340	I	T	300	720	280.00	06/20/1979	
O4N/29E-25ADD	U	ZABRANSKY	475	I	T	250	710	30.32	02/08/1981	
O4N/29E-25BBA	U	BERTSCH	200	I	T	--	670	69.94	06/12/1980	
O4N/29E-25BCA	U	ZABRANSKY	*1137	I	T	125	675	225.00	06/20/1979	1100 (?)
O4N/29E-26ADC	U	MILLS MINT FARM	745	I	S	50	661	745.00	07/11/1979	
O4N/29E-29BDB	U	KOESTER	1172	I	T	300	670	401.20	06/24/1980	
O4N/29E-30ABB	U	KOESTER	*431	I	S	200	655	295.55	03/01/1980	170 (?)
O4N/29E-30ADD	U	BATY	1071	I	S	30	655	210.00	02/14/1980	
O4N/29E-31DAB	U	BOISE CASCADE CORP.	135	N	S	3	584	21.54	07/06/1979	
O4N/29E-32ABD	U	KOESTER	950	H	--	--	655	29.85	12/11/1980	
O4N/29E-32BAA	U	CRUISHANK	200	I	S	7.5	670	115.00	07/03/1980	
O4N/29E-32BBC	U	CITY OF STANFIELD	1161	P	T	250	659	303.70	02/10/1981	
O4N/29E-32CAC	U	CITY OF STANFIELD	*778	P	U	--	600	217.00	05/11/1977	H, 300 (1959), 701 (1962)
O4N/29E-32CCA	U	CITY OF STANFIELD	180	P	S	25	680	--	--	
O4N/29E-33DCA	U	ALFORD	130	I	S	5	638	18.00	06/23/1980	
O4N/29E-36ADC	U	ZABRANSKY	1023	I	T	400	755	8.90	02/29/1980	
O4N/30E-08ADB	U	MIKAMI BROS.	968	I	T	75	820	93.60	02/09/1981	H

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	USE OF WATER	TYPE OF PUMP	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
04N/30E-26CBB	U	KILGORE	750	I	T	400	333.00	02/08/1981	
04N/30E-28ADA	U	GEHRKE	950	I	T	500	77.95	02/08/1981	
04N/30E-28CBB	U	GEHRKE	665	I	T	500	+20.80	02/08/1981	H
04N/30E-32DCA	U	GEHRKE	600	I	T	500	+32.30	02/08/1981	
04N/30E-33DCB	U	GEHRKE	600	I	T	500	2.16	02/08/1981	
04N/30E-35DCA	U	LORENZEN	612	I	T	--	116.00	02/08/1981	
04N/33E-02CAC	U	CITY OF HELIX	1100	P	S	15	173.00	02/12/1981	
04N/34E-18CDC	U	BROGOITTI	136	H	S	--	2.77	06/17/1980	
04N/34E-19DAC	U	DAVIS	--	I	T	300	136.00	06/17/1980	
04N/34E-19DBB	U	JOHNS	1035	I	T	300	198.61	02/10/1981	
04N/34E-24DAD	U	BARNETT-RUGG	1148	I	T	40	1700	04/14/1946	
04N/34E-28BCD	U	WOODWARD	*979	H	S	7.5	1670	12/00/1941	645 (1941?)
04N/34E-32BED	U	RUGGS	451	S	T	15	1640	09/18/1953	
04N/34E-32CBC	U	RUGGS	*1120	I	T	250	162.00	06/17/1980	842 (?)
04N/34E-33DCA	U	DAVIS	*1270	I	T	100	116.32	02/10/1981	413 (1951)
04N/34E-35CCA	U	DAVIS	1640	I	T	100	19.00	10/12/1967	
04N/35E-02ACC	U	HANSELL	300	I	S	15	37.00	06/13/1980	
04N/35E-11ACC	U	WINN	90	I	S	5	20.25	06/13/1980	
04N/35E-11CBB	U	WINN	551	I	S	10	1836	02/10/1981	
04N/35E-11CDD	U	WINN	303	I	S	--	1800	06/13/1980	
04N/35E-12ADB	U	LEIUALLEN	315	I	S	--	1630	06/13/1980	
04N/35E-12BAB	U	BEATH	346	H	T	7.5	1690	02/28/1959	
04N/35E-13BCB	U	BARNETT	80	S	S	5	40.00	06/16/1980	
04N/35E-15CDD	U	LAMB-WESTON	1218	I	T	150	--	--	
04N/35E-19CAD	U	CITY OF ATHENA	680	N	T	--	1720	06/16/1980	
04N/35E-19CDA	U	CITY OF ATHENA	1285	P	T	100	200.00	06/16/1980	
04N/35E-19CDC	U	SHEARD	368	H	S	--	1730	06/17/1980	
04N/35E-20ADD	U	NELSON	1012	I	T	150	113.80	06/16/1980	
04N/35E-22AAA	U	WESTON CEMETERY	1000	I	S	--	341.95	02/01/1981	
04N/35E-27DBB	U	WOOD	1070	I	T	200	342.10	02/10/1981	
04N/35E-30CAA1	U	CITY OF ATHENA	746	P	T	60	388.00	02/05/1980	
04N/35E-32ADB	U	JOHNS, SMITH, BEAMER	1090	I	T	100	1835	06/16/1980	
04N/35E-32DAA	U	JOHNS, SMITH, BEAMER	1200	--	S	50	75.50	06/16/1980	
04N/35E-35BAC	U	LAMB-WESTON	1125	P	T	--	336.00	12/14/1966	
04S/21E-10BBC1	G	CITY OF CONDON	630	P, I	S	--	130.00	06/26/1975	
04S/25E-04DEA	M	HORSESHOE HEREFORD	900	I	T	100	--	--	
05N/26E-25CCA	M	TAYLOR	173	U	T	40	23.30	08/20/1980	
05N/26E-26BCD	M	GILLETTE	235	I	--	--	36.34	02/12/1981	

Table 1.--Records of selected wells--Continued

WELL NUMBER	COUNTY	OWNER	WELL DEPTH (FEET)	DATE DRILLED	USE OF WATER	PUMP TYPE	PUMP HORSE-POWER	ALTI-TUDE (FEET)	WATER LEVEL (FEET)	DATE W.L. MEASURED	REMARKS
05N/26E-26CBA	M	BENTONCOURT	250	1971	H, I, S	--	--	335	66.00	02/12/1981	
05N/27E-19CCA	M	CITY OF IRRIGON	317	1968	P	T	30	297	34.20	03/04/1982	
05N/27E-30CCC	M	SCHNELL	300	1972	H	S	1	350	27.00	02/11/1980	
05N/28E-10DAD	U	CORP. OF ENGINEERS	777	1952	N	T	200	400	325.20	07/10/1978	
05N/28E-10DDB	U	CORP. OF ENGINEERS	694	--	N	T	200	400	124.00	11/13/1958	
05N/28E-11CAB	U	PORT OF UMATILLA	850	1967	P	T	400	390	110.00	02/04/1980	
05N/28E-14ABD	U	CITY OF UMATILLA	989	1978	P	T	450	492	210.00	02/25/1982	
05N/28E-15CCB	U	CITY OF UMATILLA	*455	1967	P	S	--	444	105.00	08/08/1967	223 (?) , 381 (1965)
05N/28E-16AAD	U	JENKS	385	1949	I	T	5	350	100.00	06/11/1979	
05N/28E-16ADD	U	CITY OF UMATILLA	1134	1979	P	T	200	455	160.20	02/11/1980	
05N/28E-17CBA	U	CITY OF UMATILLA	536	1940	I	T	25	300	23.60	02/11/1980	
05N/28E-19AAA	U	CITY OF UMATILLA	785	1947	P	T	100	485	285.21	07/24/1979	
05N/28E-22BBA1	U	MARTIN	189	1951	H	P	--	450	7.00	09/ /1953	
05N/28E-22BBA2	U	MARTIN	170	1948	H	--	--	442	38.38	03/14/1979	H
05N/28E-22BBD	U	NEWMAN	225	--	U	T	--	435	74.25	07/24/1979	
05N/28E-26CAD	U	BAGGETT	280	1976	I	S	20	485	70.96	07/12/1978	
05N/28E-32BDC	U	CHAVES	*578	1978	U	--	--	605	165.00	02/12/1980	340 (1977)
05N/28E-33ADB	U	BONNEY	315	1969	U	U	75	520	119.31	08/09/1979	
05N/28E-34AAA	U	WHITEHEAD	150	--	--	--	--	540	--	--	
05N/28E-34CDB	U	HAMILTON	300	1976	--	S	--	520	117.95	07/15/1981	
05N/28E-35CDC	U	TILDEN	207	1964	I	S	5	525	193.27	07/19/1979	
05N/28E-36CDA	U	MCDONALD	170	1976	I	S	20	510	100.50	08/18/1980	
05N/29E-21BCC	U	CONFORTH	632	1974	I	T	25	450	61.42	02/09/1981	
05N/29E-22BBB	U	CONFORTH	398	1975	I	T	40	405	53.95	02/11/1980	
05N/29E-26BDA	U	MARKS	925	--	I	T	250	575	--	--	
05N/29E-26CBB	U	MARKS	380	1974	H	S	5	450	--	--	
05N/29E-26CBD	U	MARKS	525	--	I	T	150	575	14.65	02/11/1980	
05N/29E-31CCB	U	SUTTON	180	--	I	S	20	470	31.85	07/16/1979	
05N/29E-31DBD	U	FOURCADE	201	1974	I	U	--	470	10.50	07/16/1979	
05N/29E-32CAB	U	HALLADAY	*200	1980	I	S	7.5	470	44.80	06/20/1980	170 (1977)
05N/29E-32CCC	U	THRASHER	160	--	H	S	20	470	--	--	
05N/29E-34ABC	U	MCEWEN	428	1977	H, N	S	--	560	--	--	
05N/32E-26DDA	U	HILL	120	1973	H	S	10	1650	18.18	02/26/1980	
05N/33E-20CCB	U	BIXBY	--	1962	H	S	--	1850	60.30	02/12/1981	
05N/34E-16DCC	U	THOMPSON	228	--	H, S	S	--	2140	138.64	02/11/1980	H

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

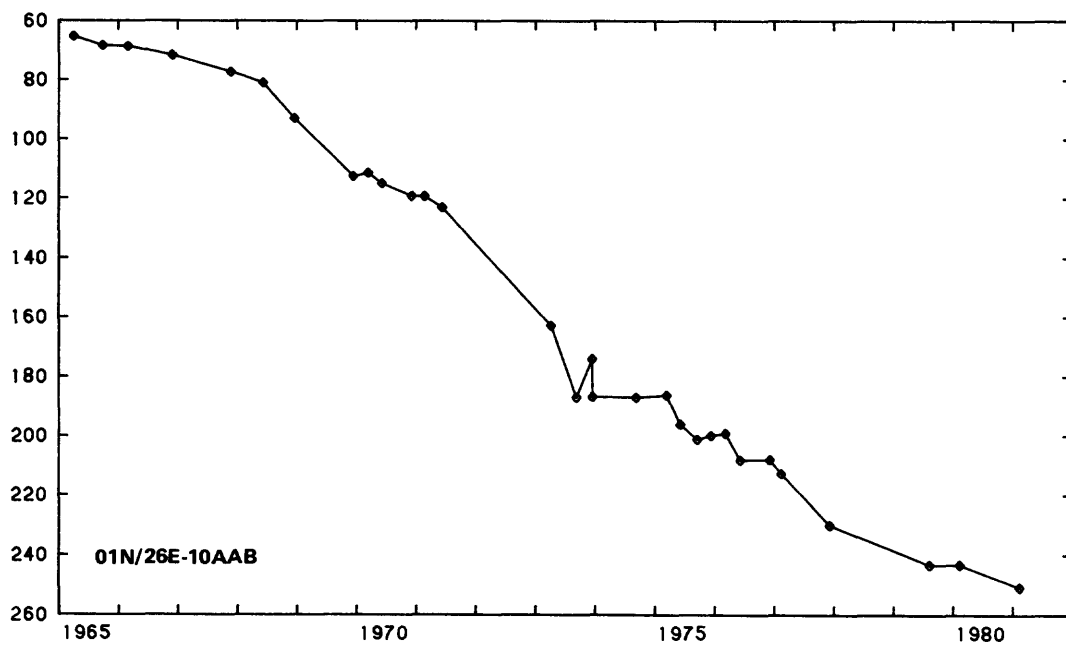
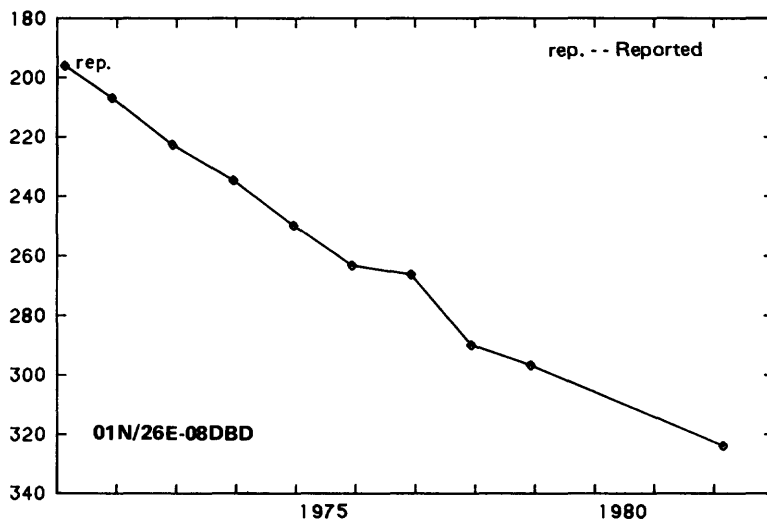
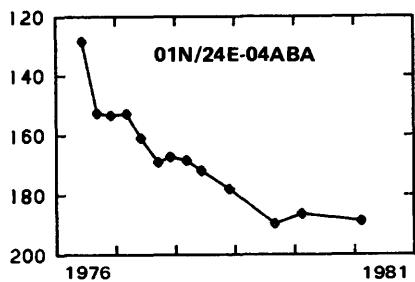
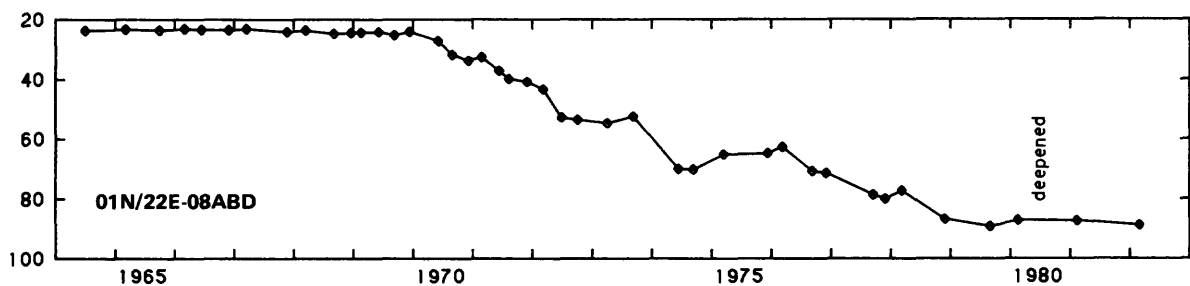


FIGURE 3. — Hydrographs of selected wells.

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

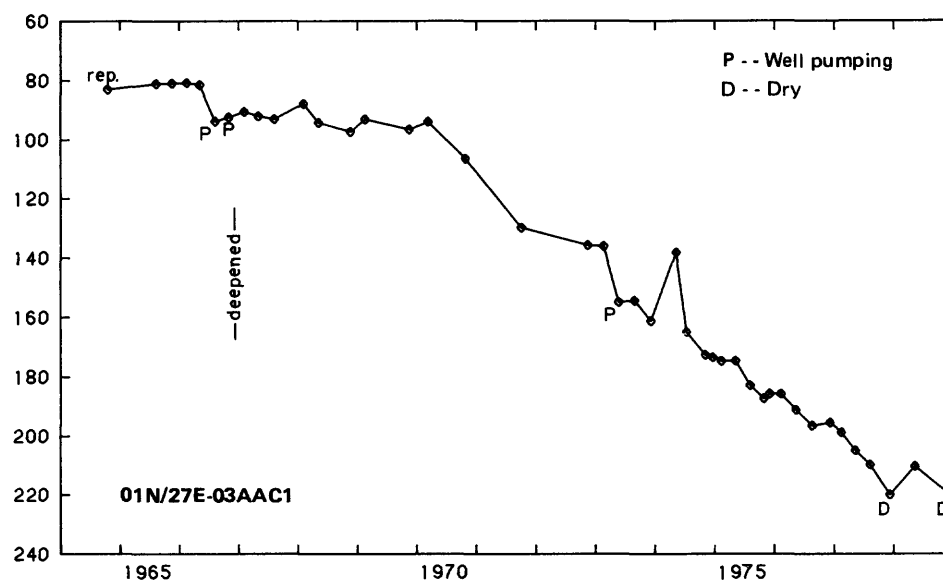
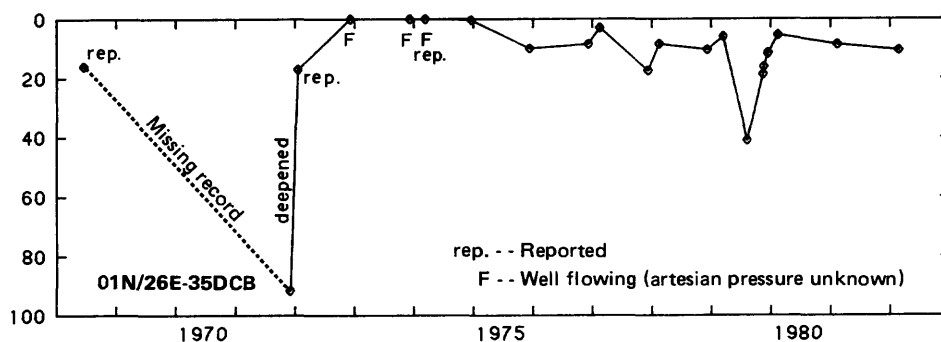
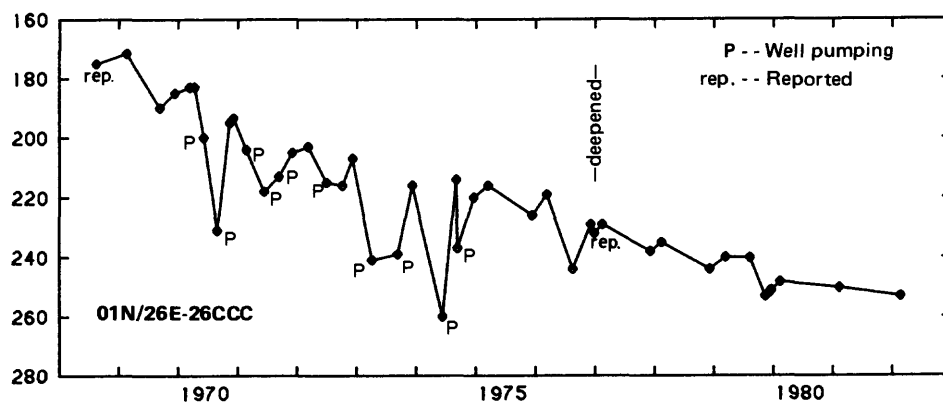


FIGURE 3. — Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

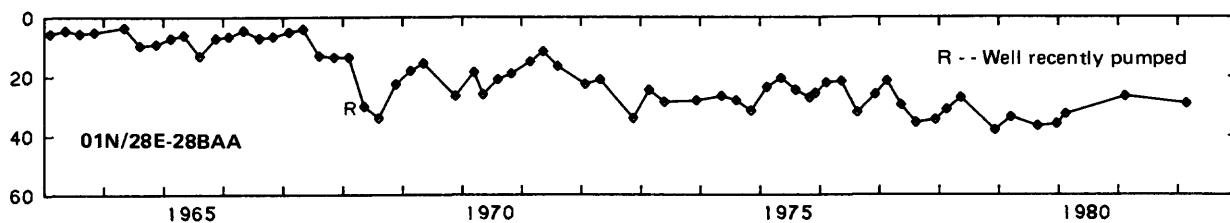
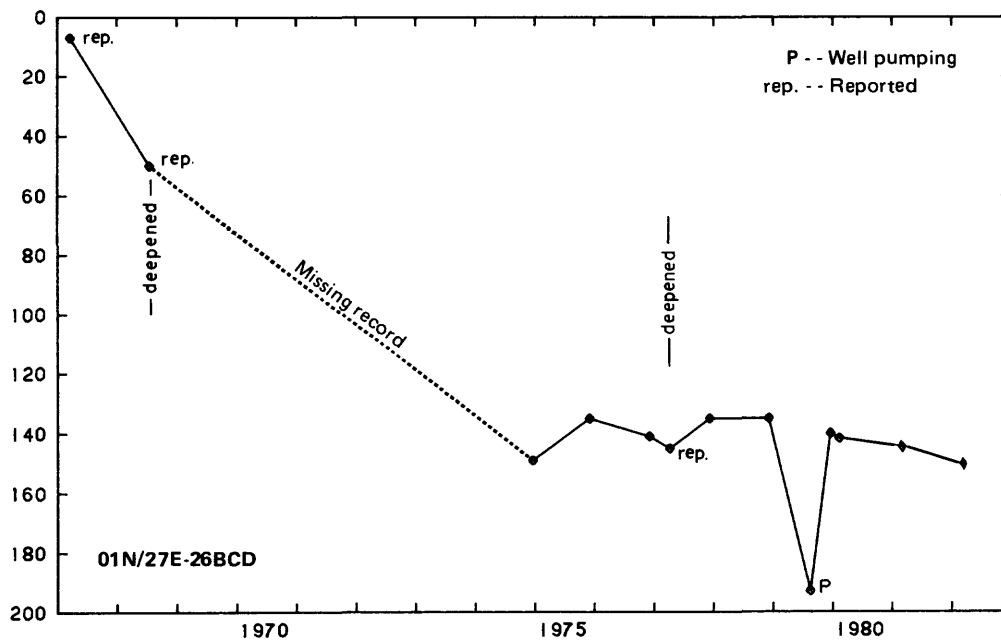
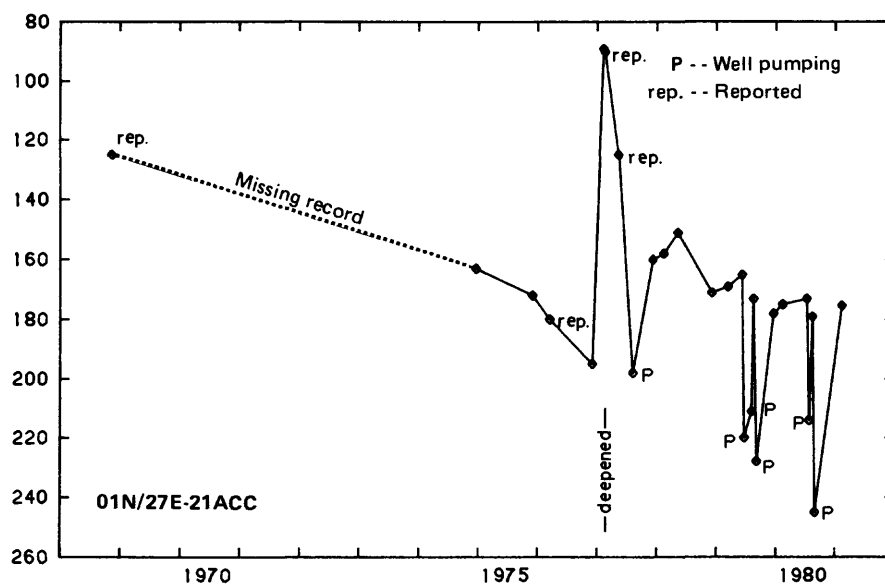


FIGURE 3. -- Hydrographs of selected wells -- Continued

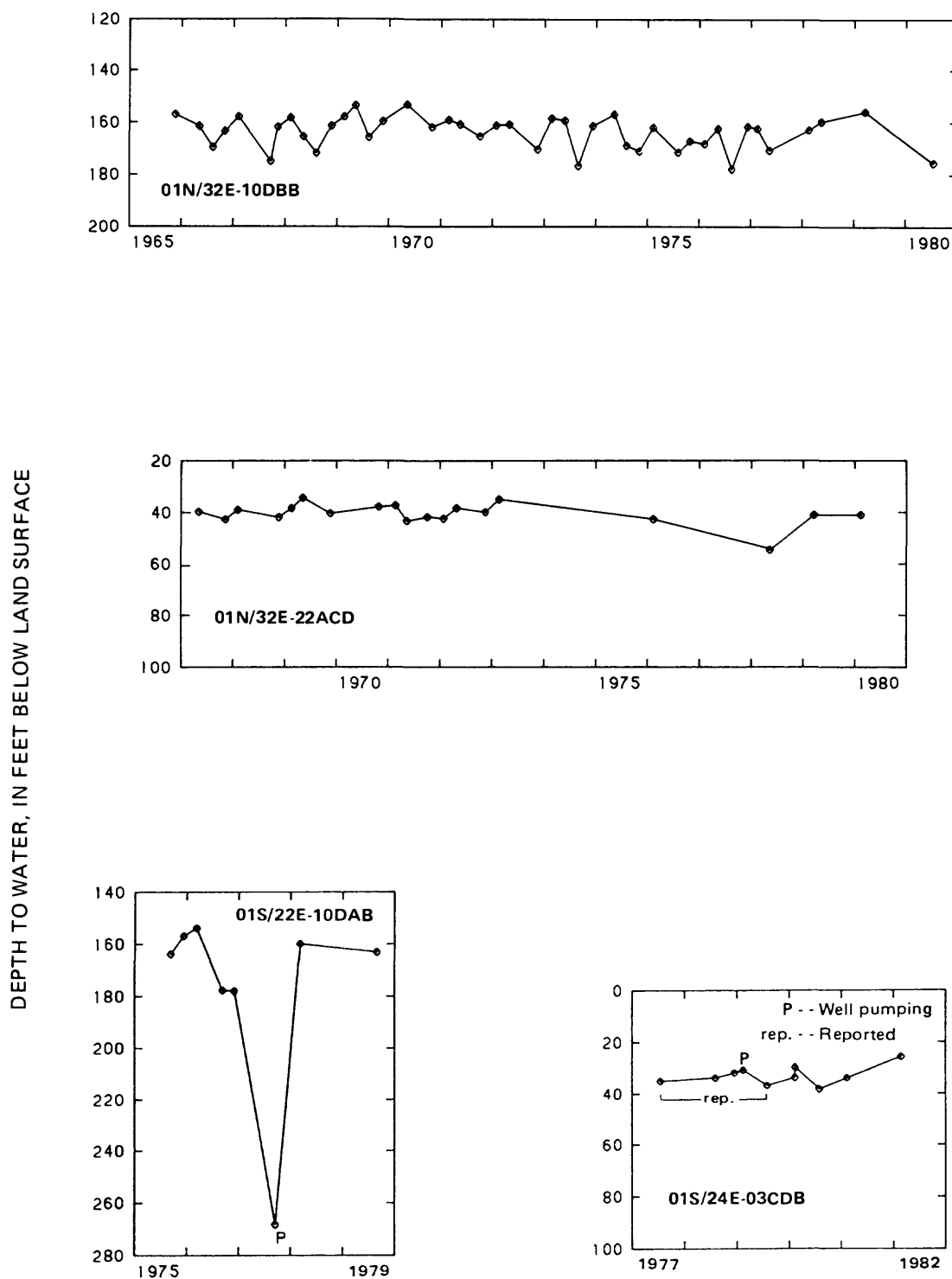


FIGURE 3. – Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET ABOVE (+) OR BELOW LAND SURFACE

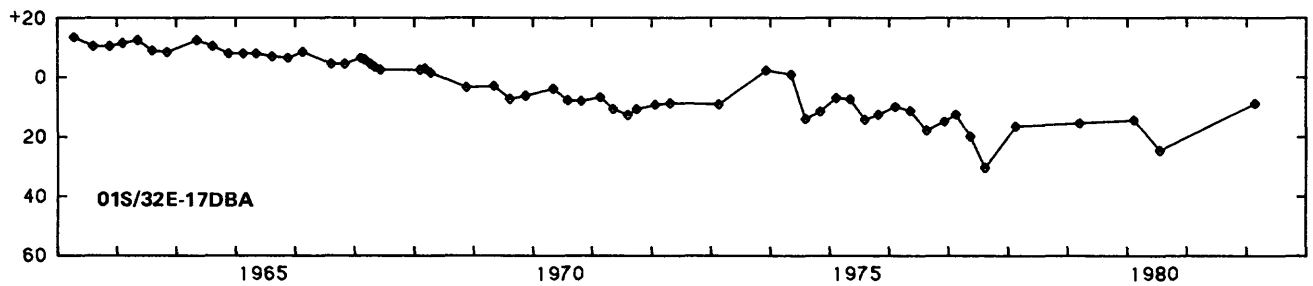
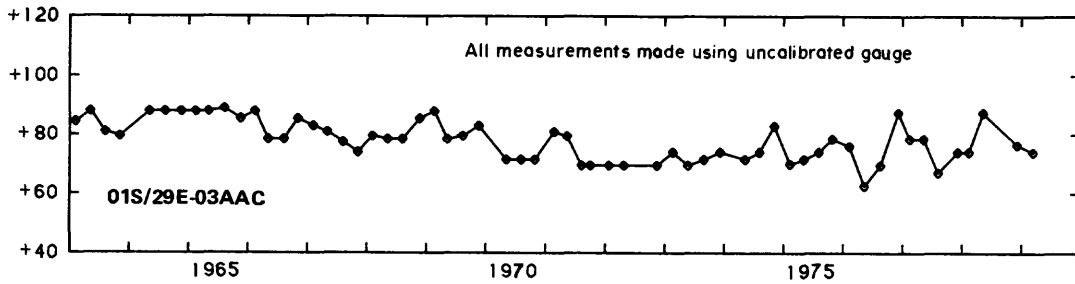
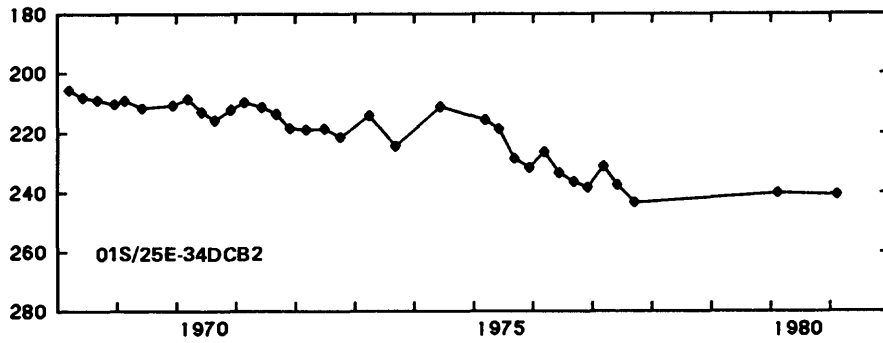
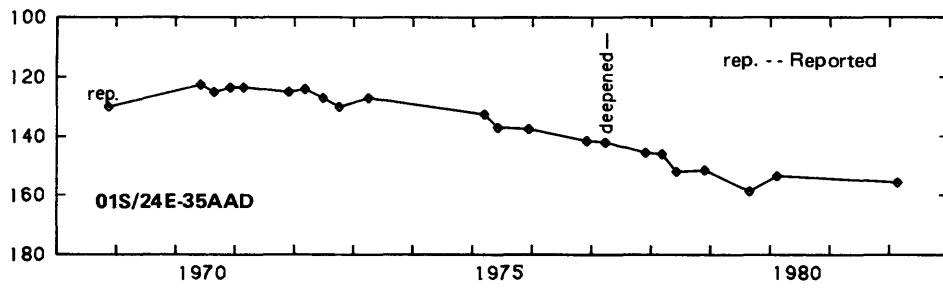


FIGURE 3. -- Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

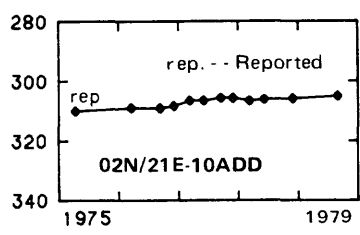
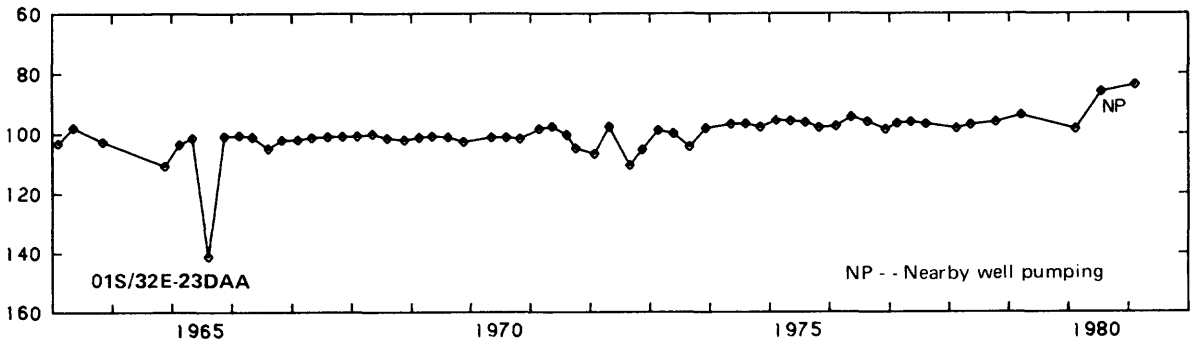
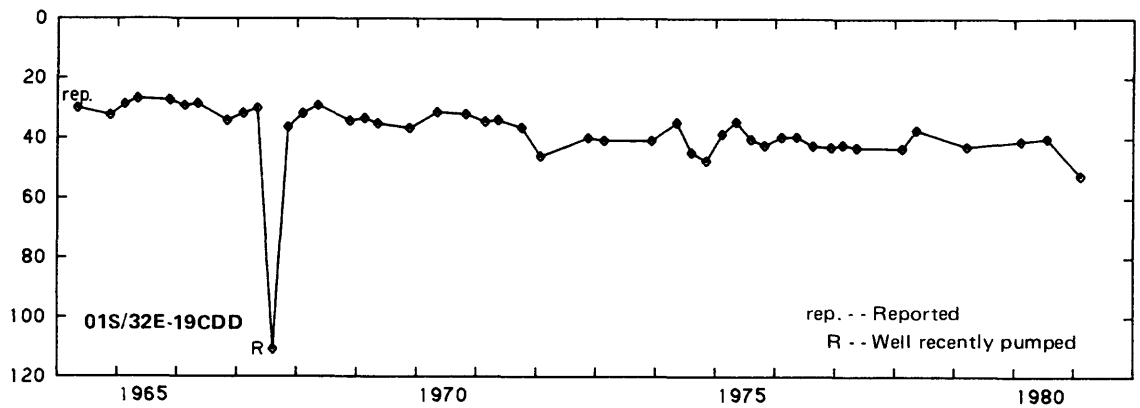


FIGURE 3. — Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

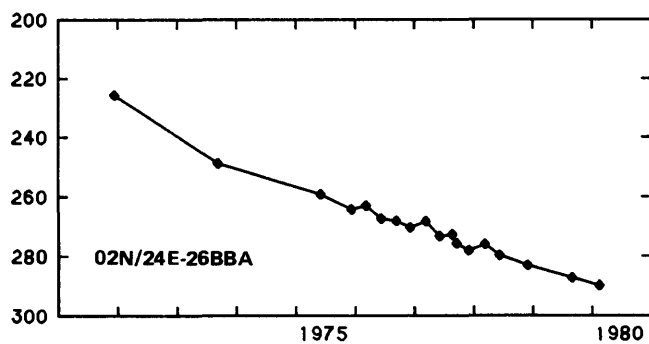
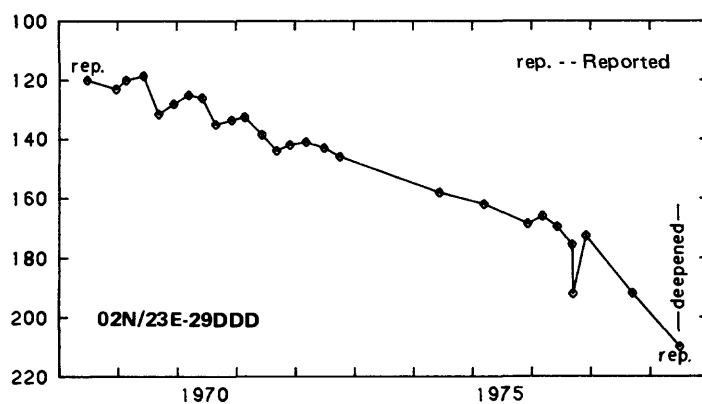
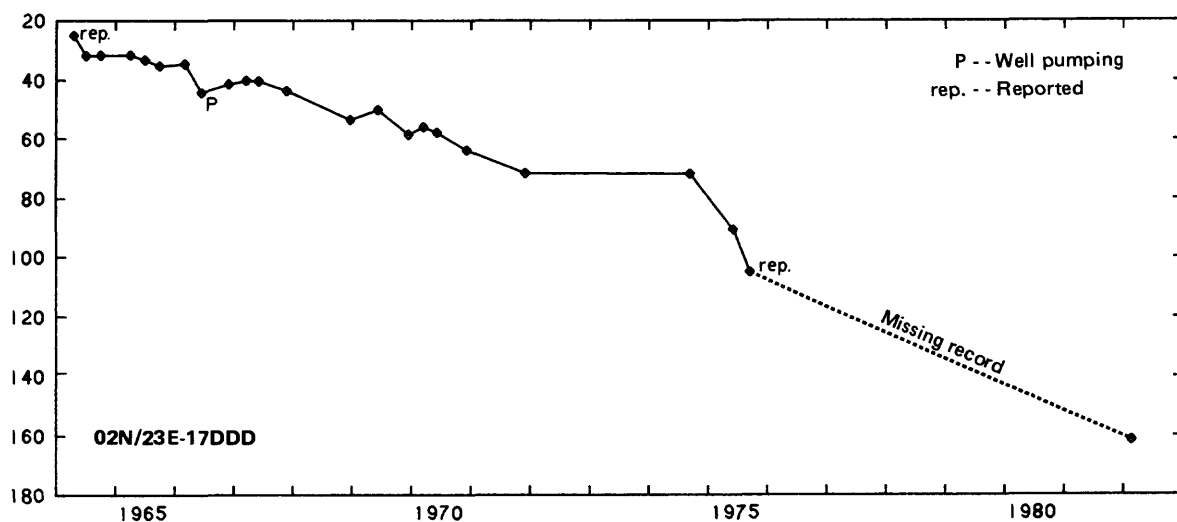


FIGURE 3. — Hydrographs of selected wells -- Continued

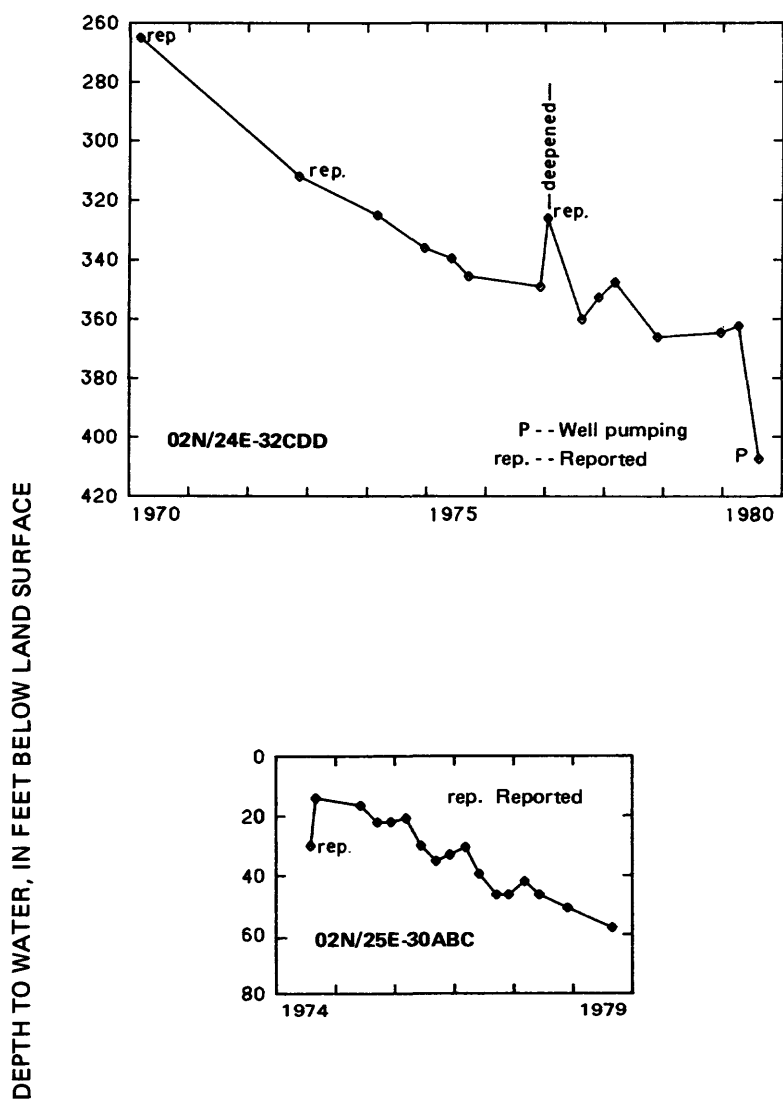


FIGURE 3. — Hydrographs of selected wells — Continued

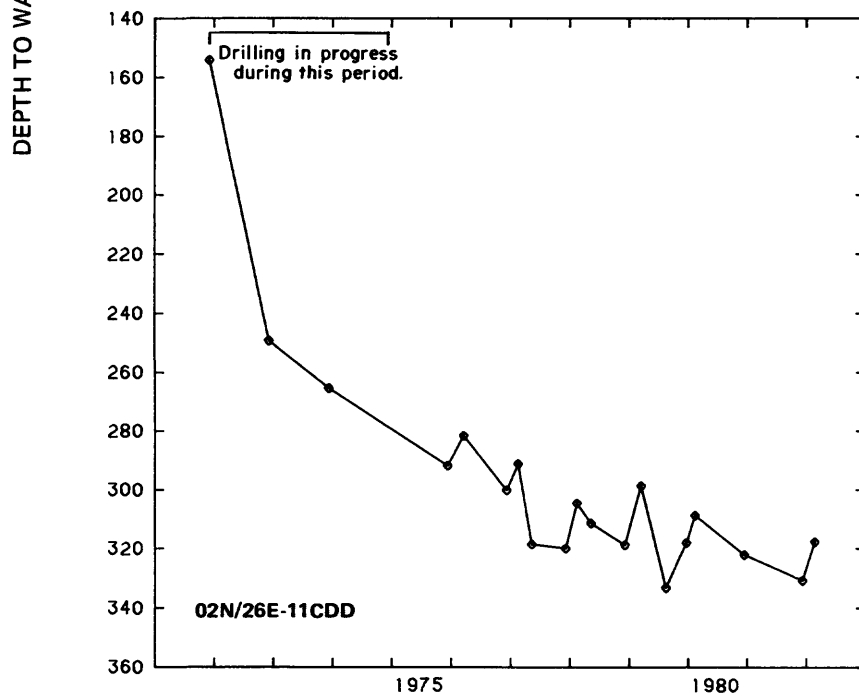
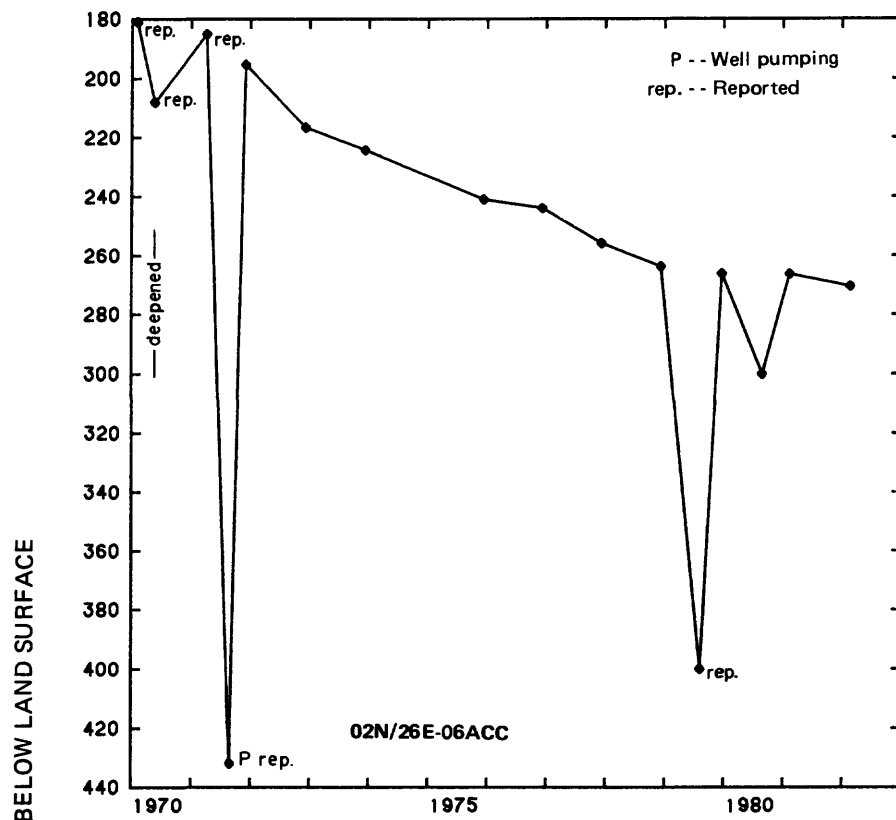


FIGURE 3. — Hydrographs of selected wells -- Continued

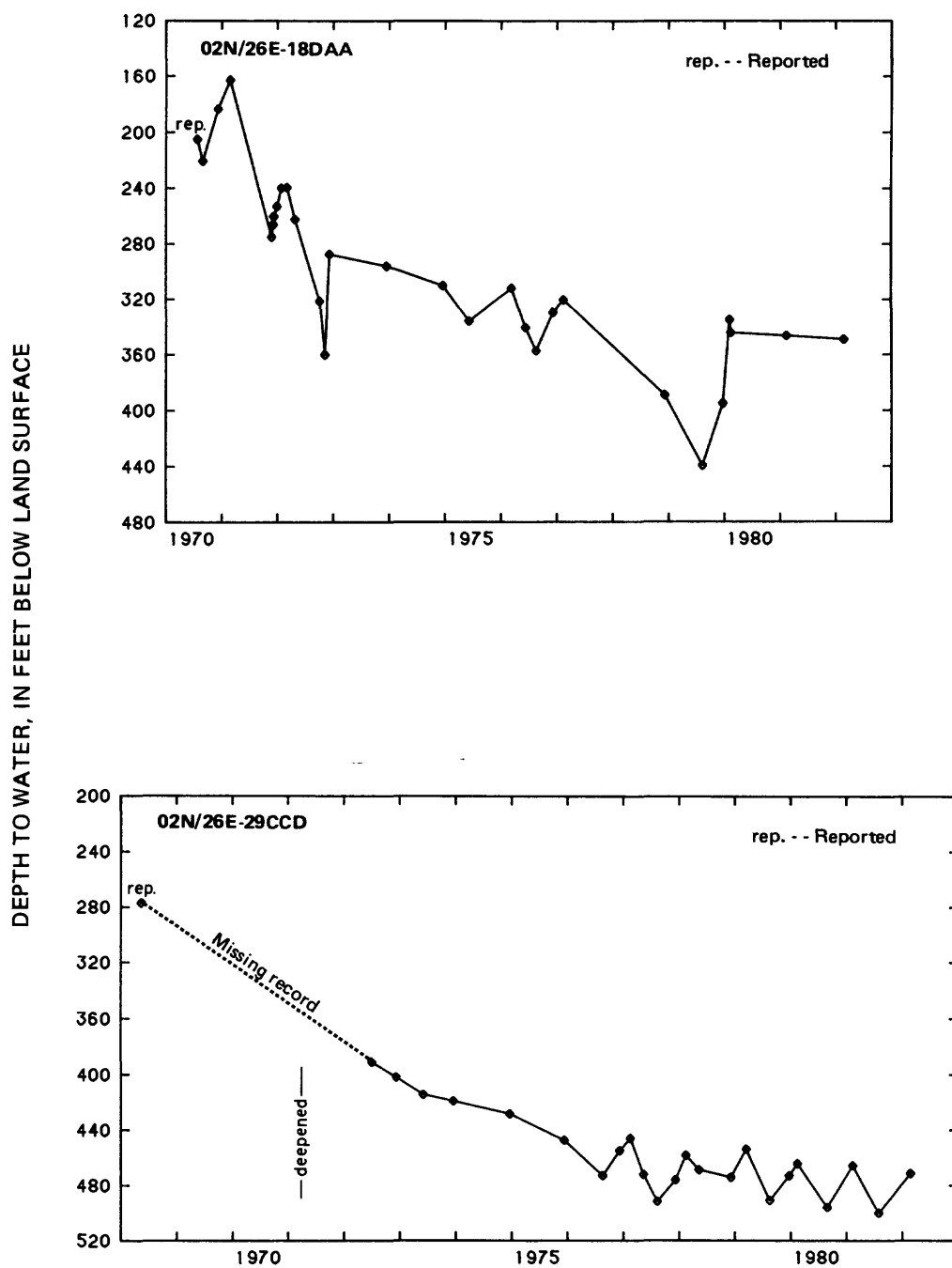


FIGURE 3. — Hydrographs of selected wells -- Continued

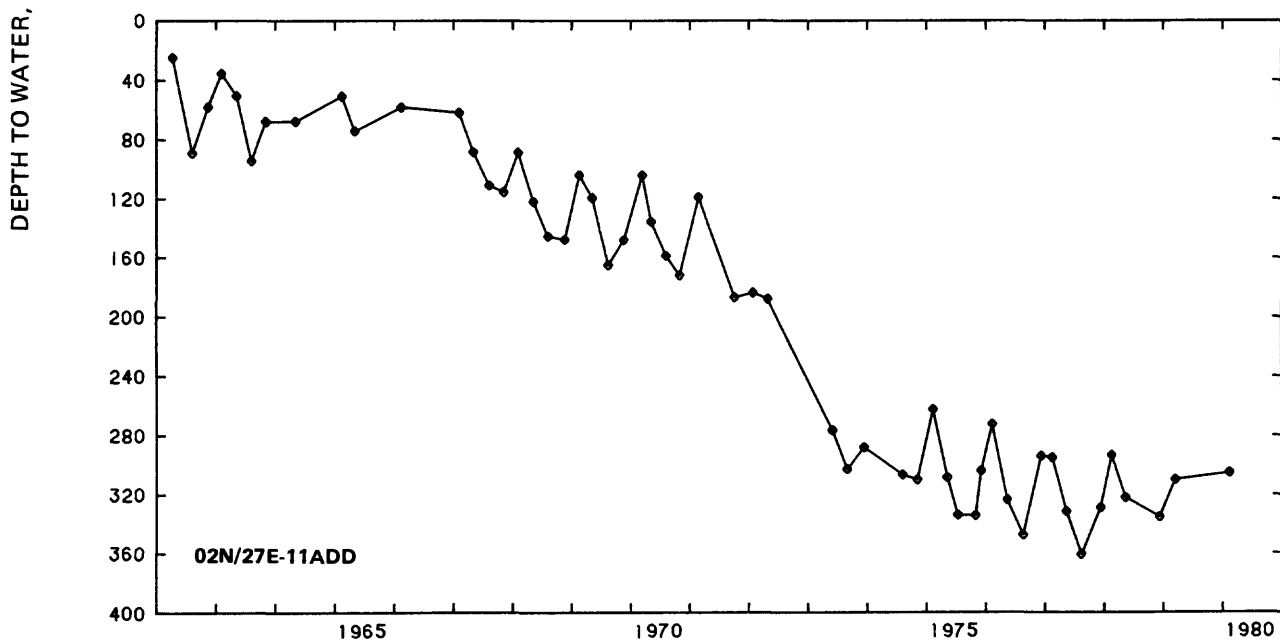
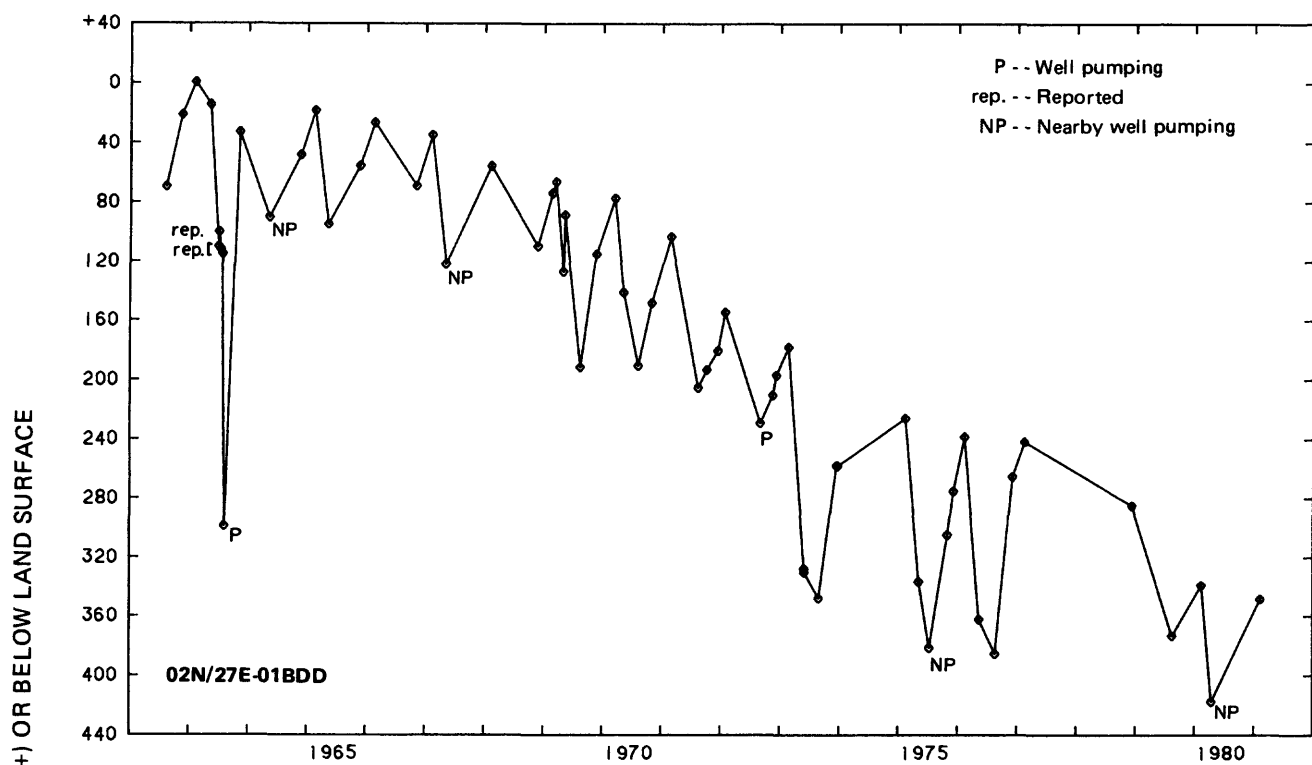


FIGURE 3. — Hydrographs of selected wells -- Continued

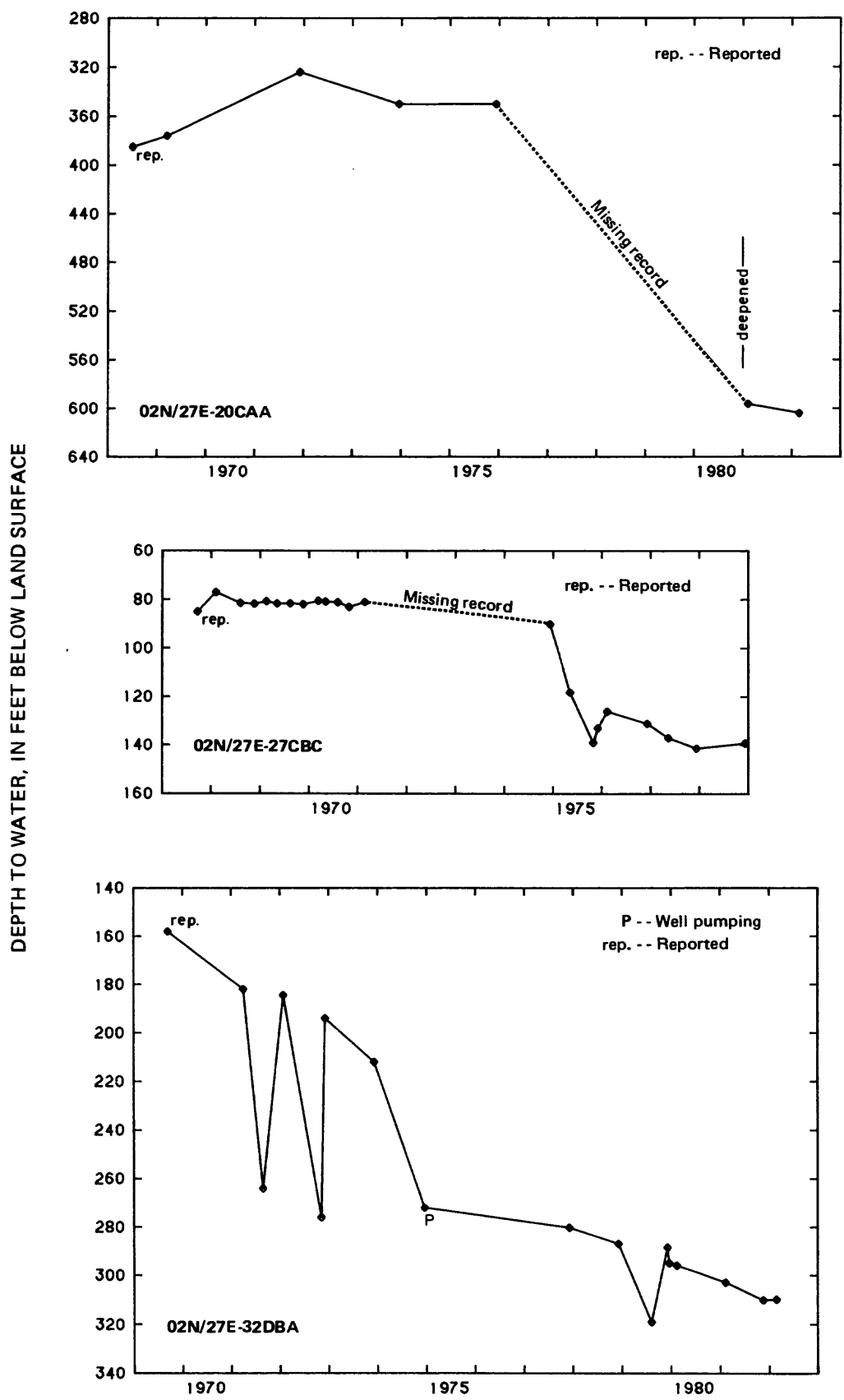


FIGURE 3. — Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET ABOVE (+) OR BELOW LAND SURFACE

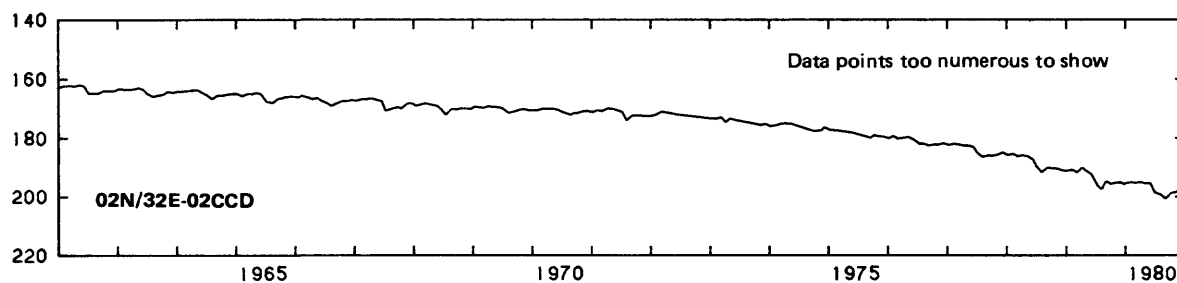
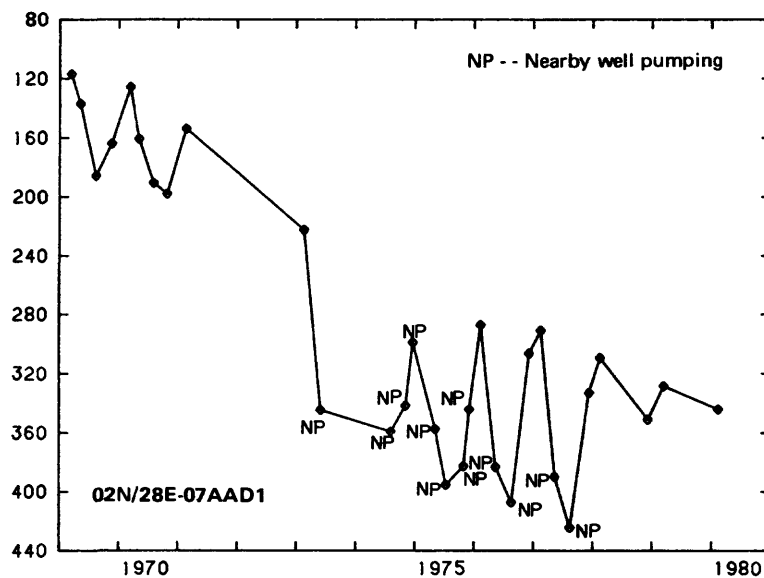
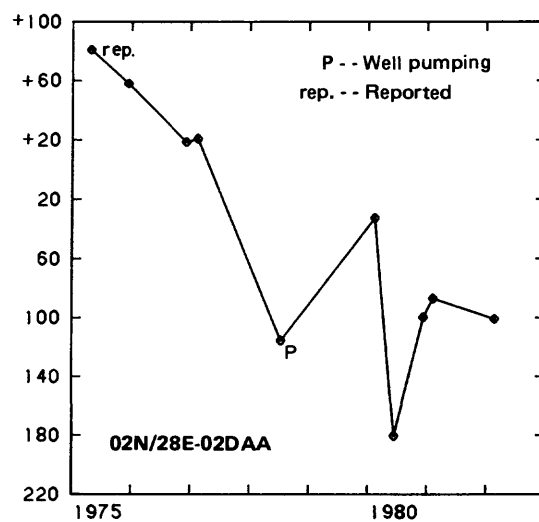


FIGURE 3. — Hydrographs of selected wells — Continued

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

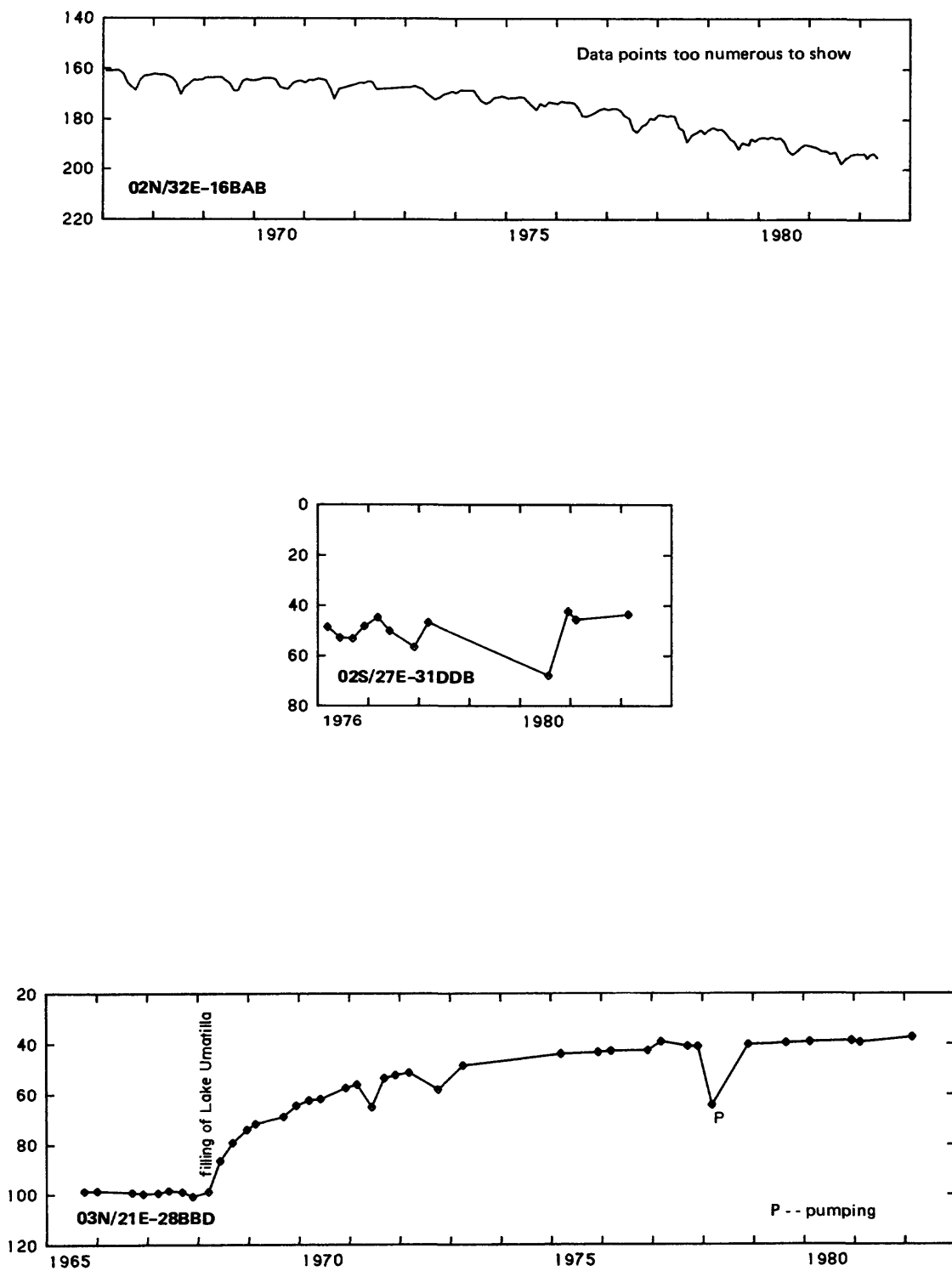


FIGURE 3. — Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

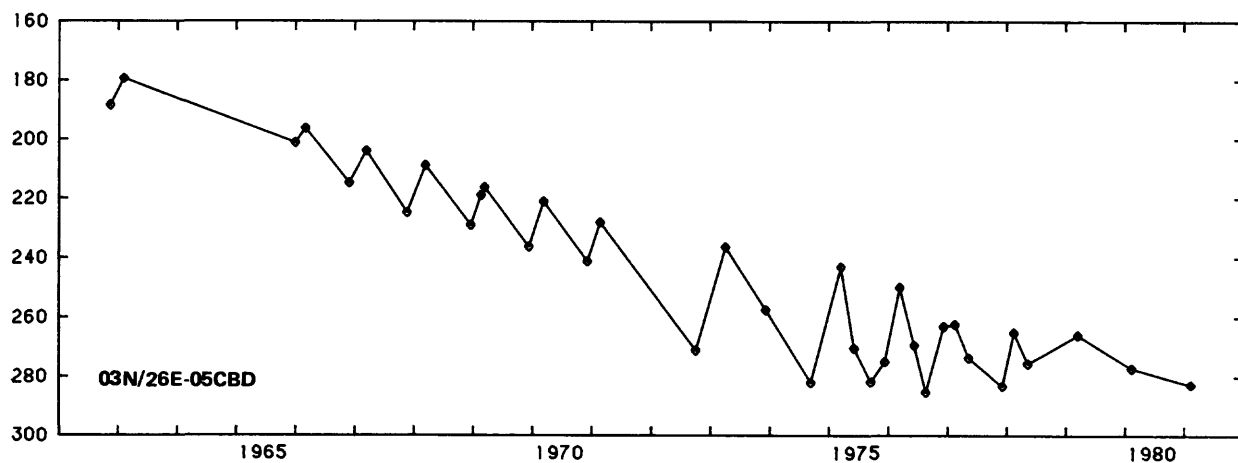
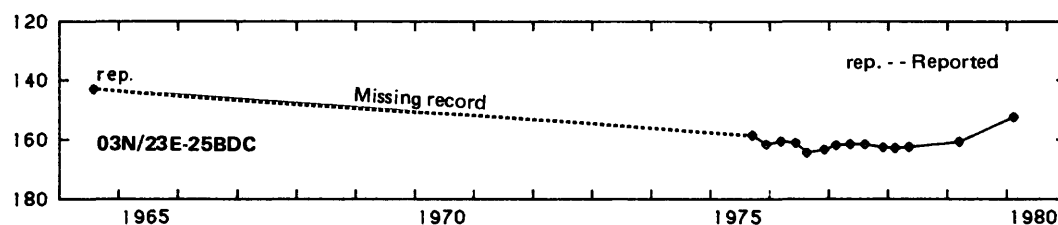
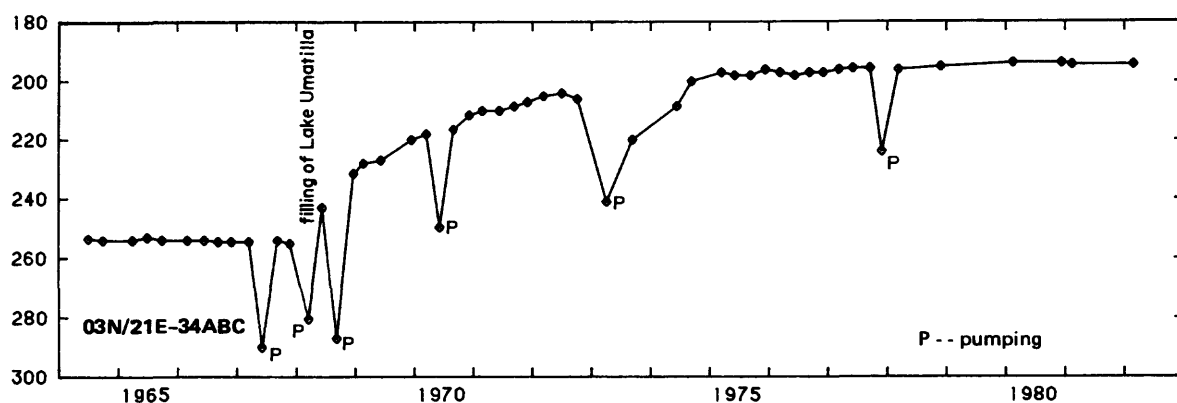
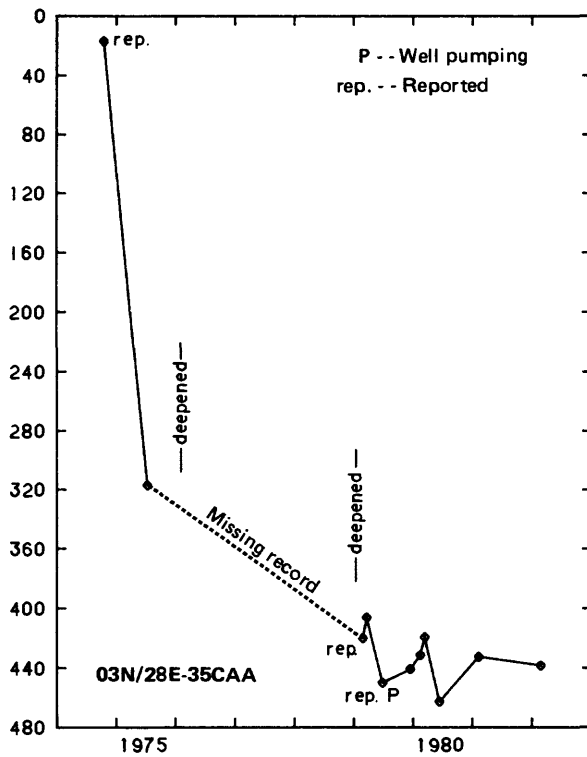
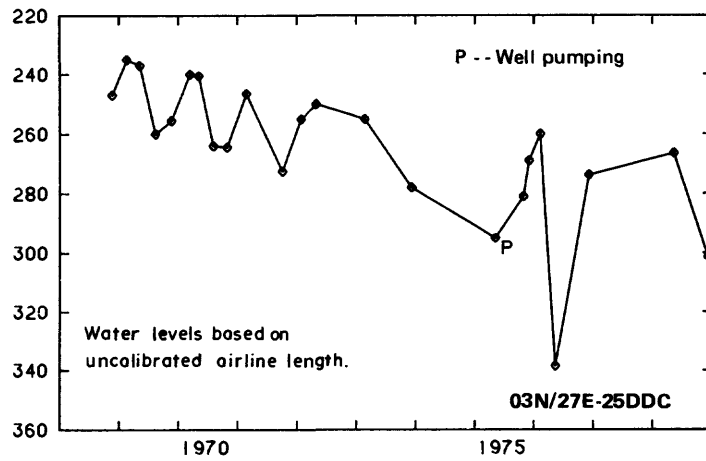


FIGURE 3. -- Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET BELOW LAND SURFACE



DEPTH TO WATER, IN FEET ABOVE (+) OR BELOW LAND SURFACE

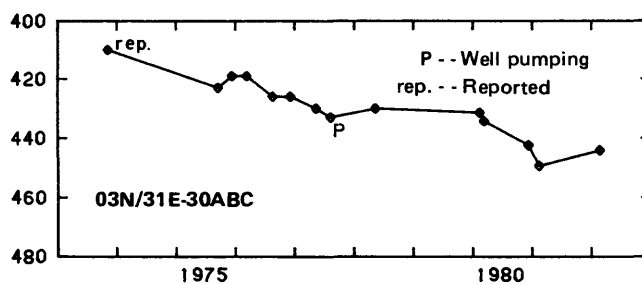
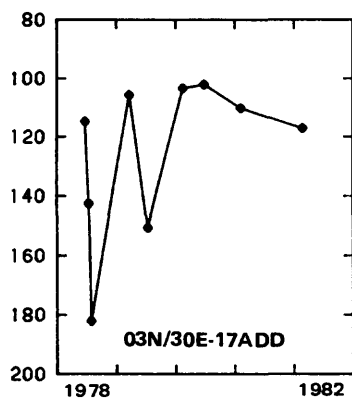
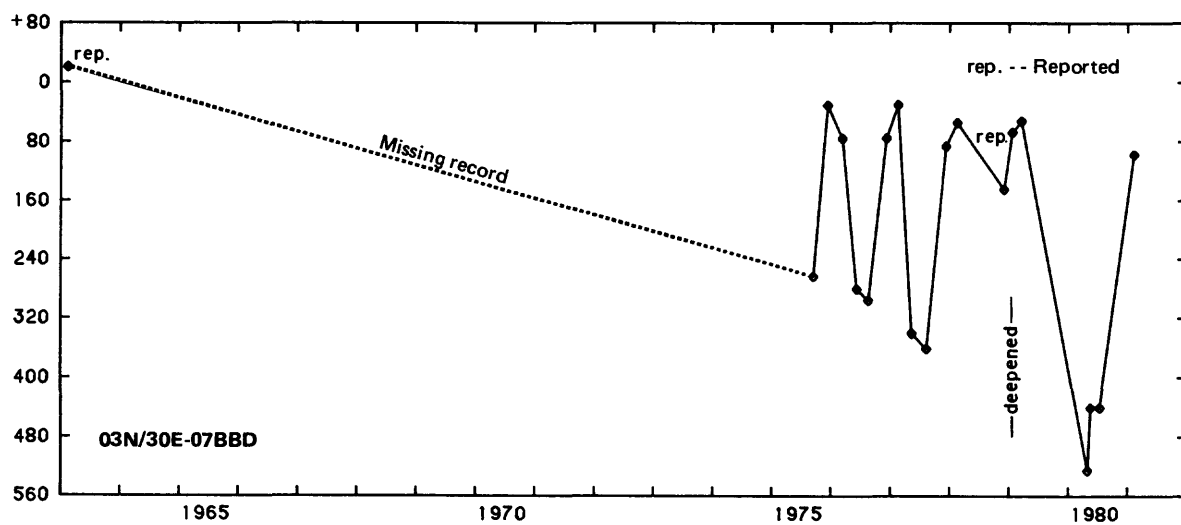
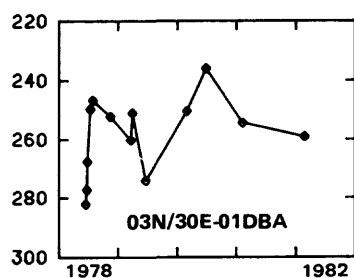


FIGURE 3. -- Hydrographs of selected wells -- Continued

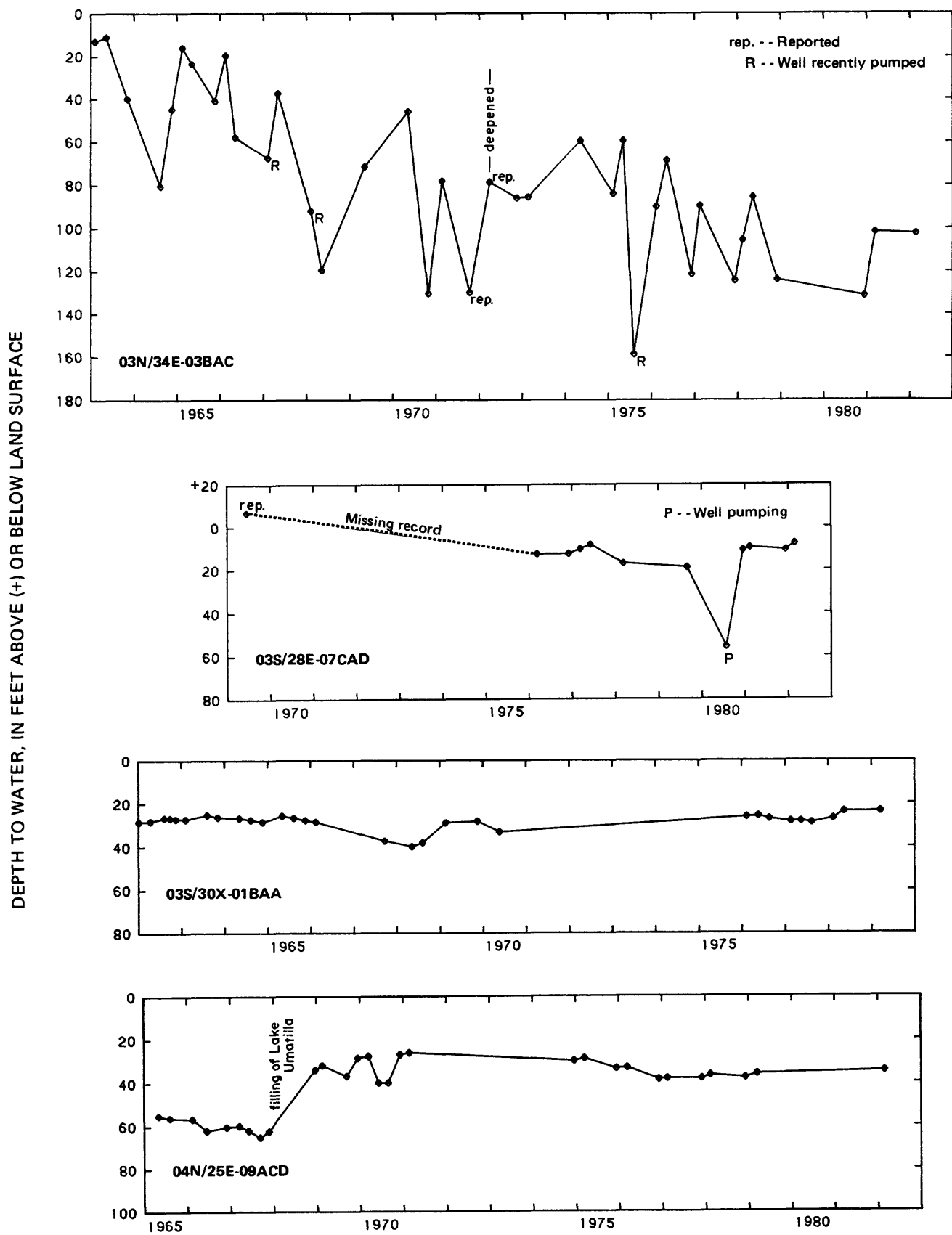


FIGURE 3. — Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET ABOVE (+) OR BELOW LAND SURFACE

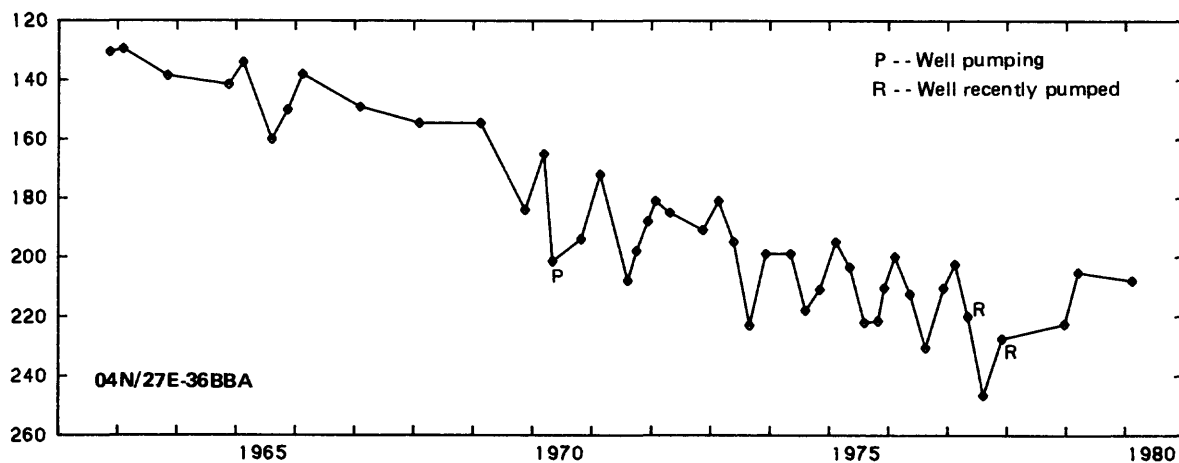
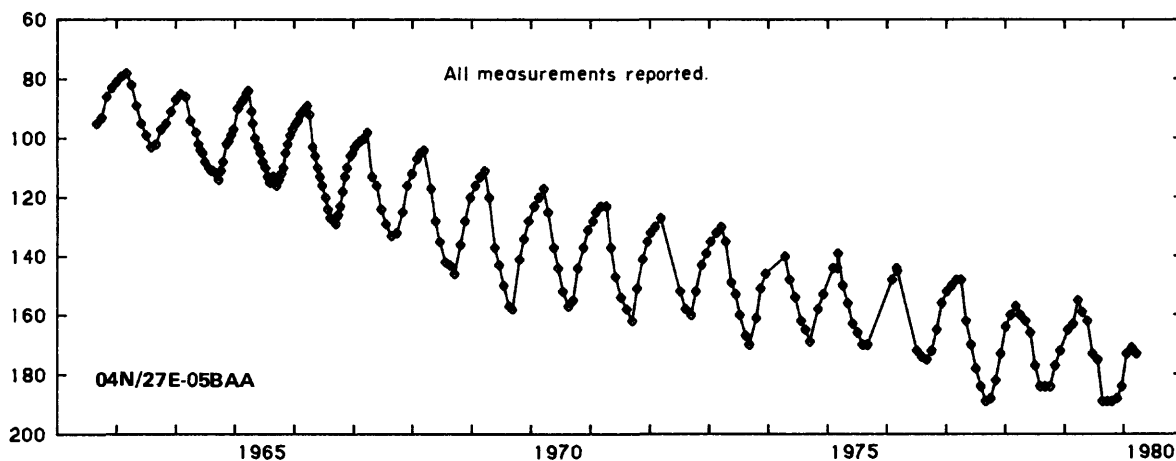
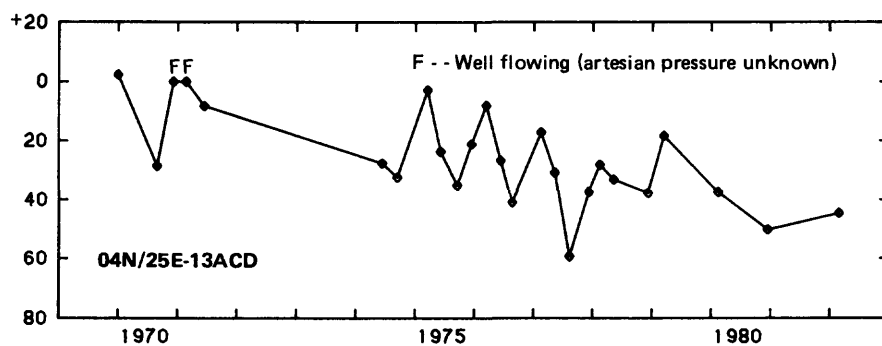


FIGURE 3. — Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET BELOW LAND SURFACE

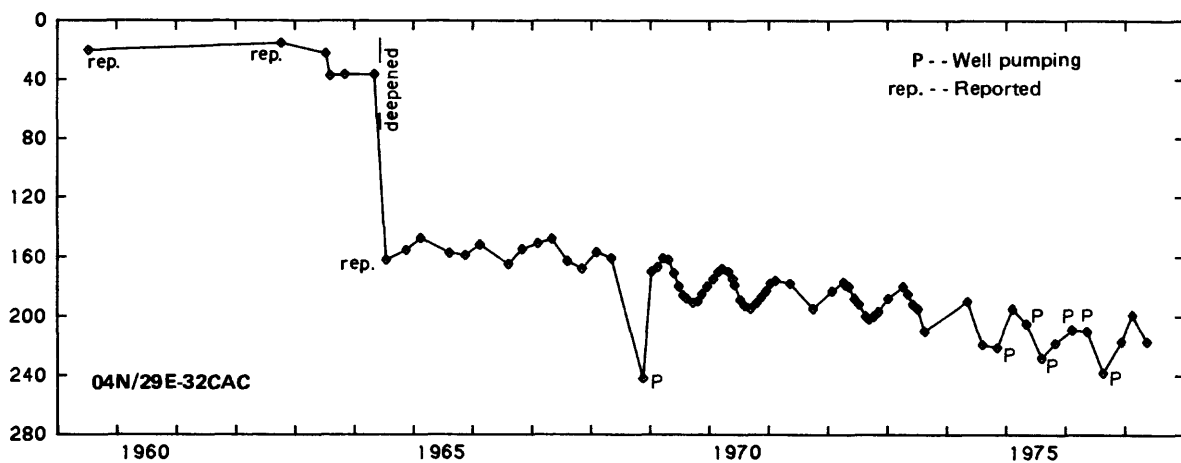
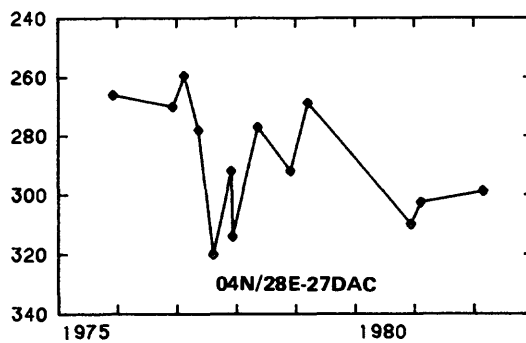
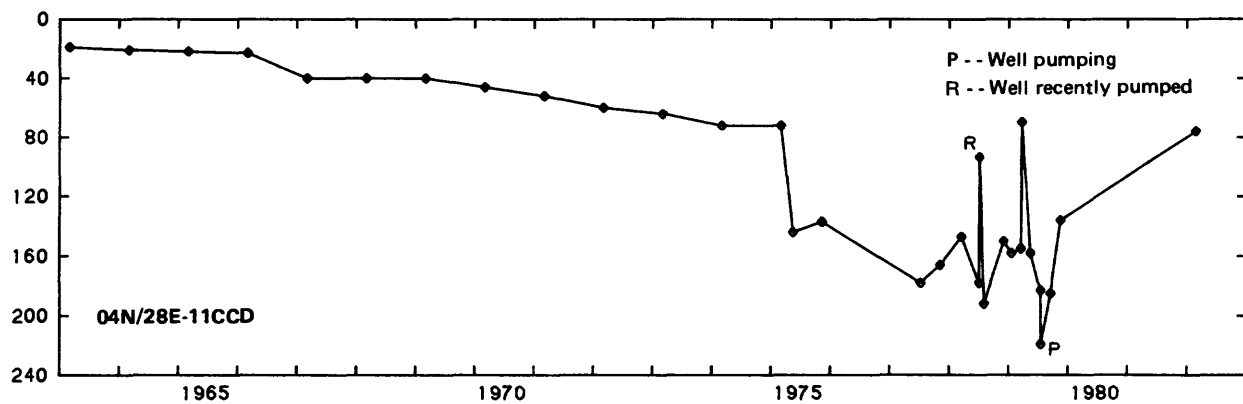


FIGURE 3. -- Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN FEET ABOVE (+) OR BELOW LAND SURFACE

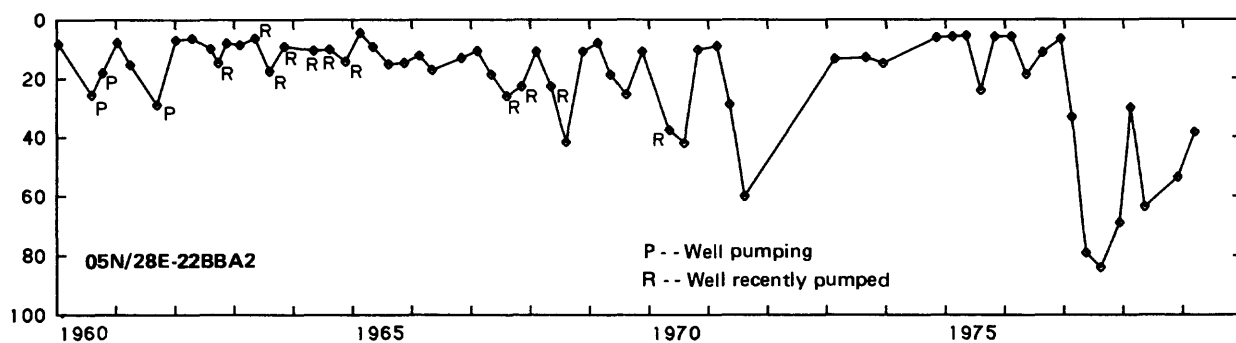
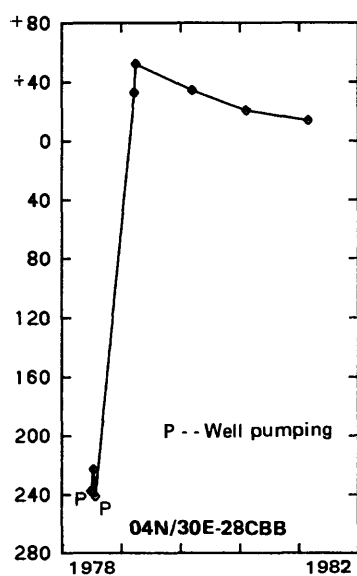
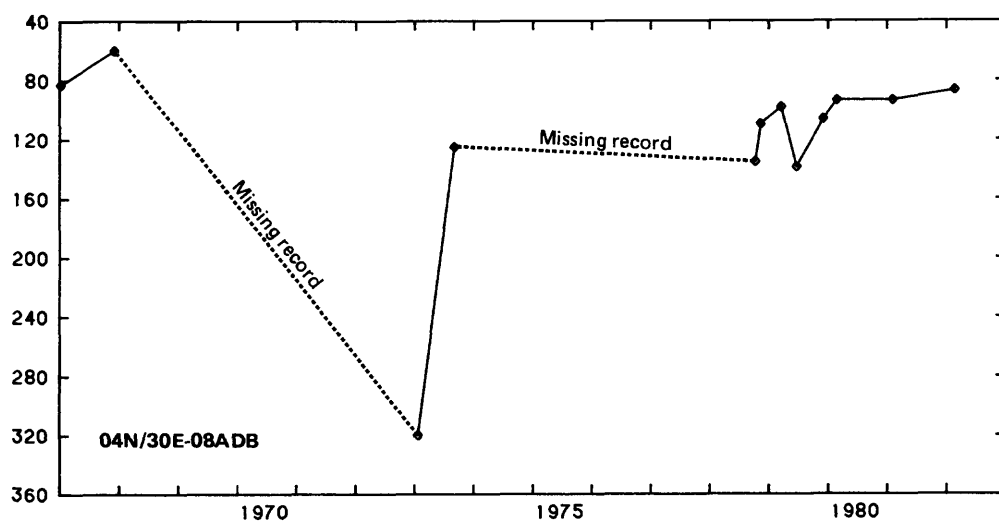


FIGURE 3. — Hydrographs of selected wells -- Continued

DEPTH TO WATER, IN
FEET BELOW LAND SURFACE

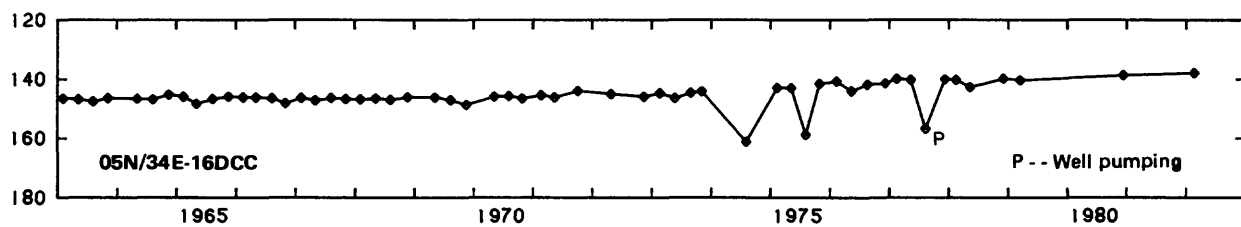


FIGURE 3. — Hydrographs of selected wells -- Continued