PHELPS DODGE 14 USFS, COCONINO CO.
NE NE SW 13N-10E-25, File 3-13

3-13

Strat (mineral test)
~~WATER WELL INFORMATION SHEET~~

File No. ~~202~~ void
Strat(mineral) test

County Coconino

Area

Well Owner Phelps Dodge 14 USFS

API # 02-005-05093

LOCATION

T R S	Quadrangle, District, and Field Number or Name	Miles West and South of Northeast Corner of Quadrangle
13N-10E-25 NE NE SW		est. 2250 fsl 2200 fwl

Total Depth	Elevation	Samples of Drill-Bit Cuttings and/or Cores	
726	7334 GL KB	No Yes	Sample File No.

Lat 34-39-05 N (6 3-15-67)
Long 111-14-55

LOGS

Elec Logs	Lithologic	Driller's

GEOLOGICAL

Formation Tops	Depth			Remarks
	Elec Logs	Lithologic	Driller's	
Pk			94	
Pco			147	

Source of Formation Top Data: USGS WRD Log

GENERAL

Completed 10/63

7334
147
7187

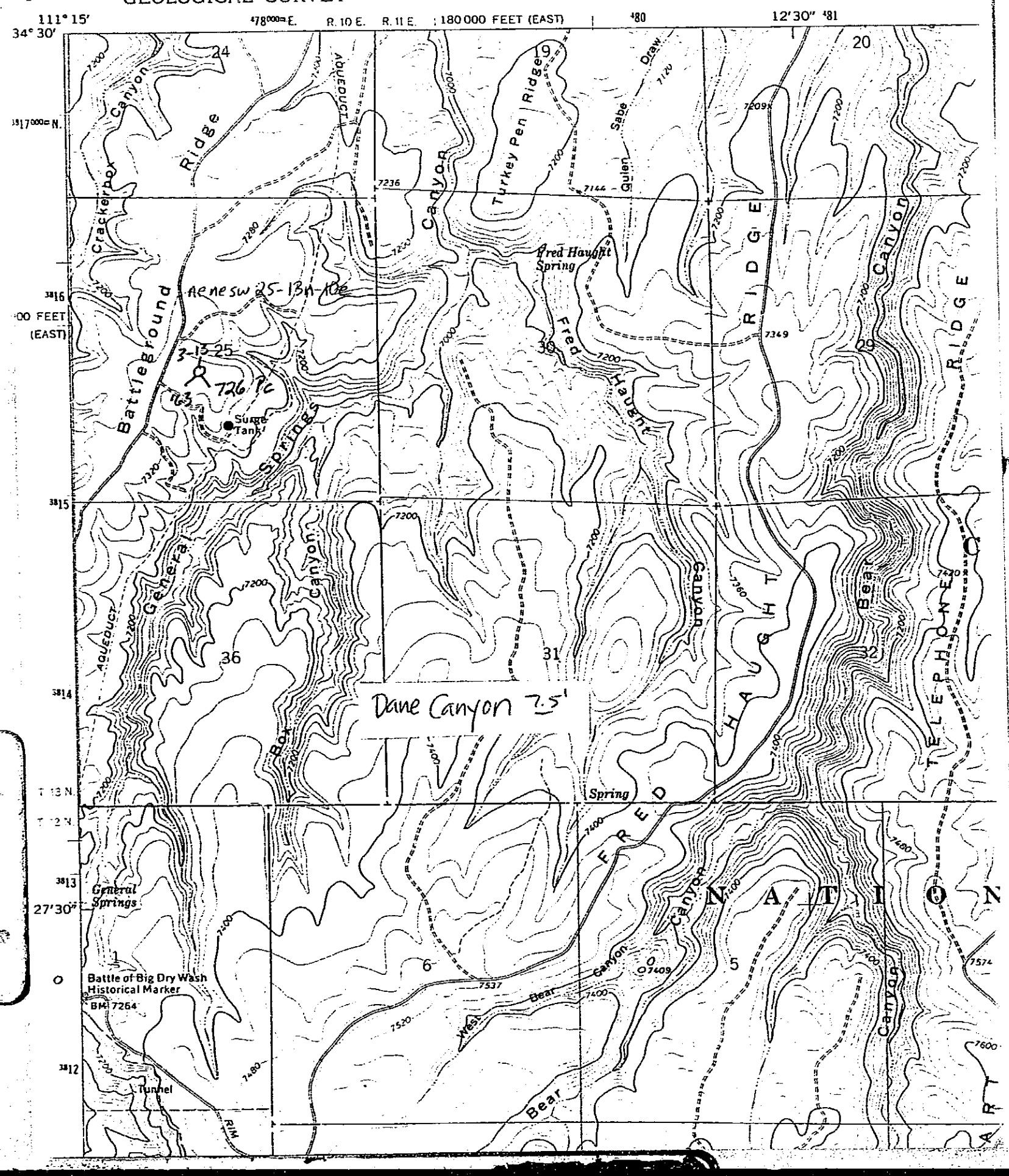
Table 1.--Records of selected wells in southern Coconino County

Location: See p. 3 for description of well-numbering and location system.
Static water level: R, reported.
Bail or pump-test data: R, reported.
Use of water: D, domestic; Ind, industrial; Irr, irrigation; N, none; PS, public supply; S, stock.

Well log: T3, log included in table 3.
Chemical analysis: T4, chemical analysis included in table 4.
Remarks: ATT, American Telephone and Telegraph Co.; EPNG, El Paso Natural Gas Co.; P.M., Bureau of Indian Affairs, Branch of Plant Management; T.P., trading post.

Location	Date completed (month, year)	Reported depth of well (feet)	Diameter of casing (inches)	Land-surface altitude (feet above mean sea level)	Water-bearing strata	Static water level: Feet below land surface	Static water level: Date measured	Bail or pump-test data: Rate (gpm)	Bail or pump-test data: Drawdown (feet)	Bail or pump-test data: Duration of test (hours)	Use of water	Well log	Chemical analysis	Remarks
(A-11-14)13aca	.....	650	.....	7,555	Coconino Sandstone	403	6-14-66	.....	.....	.....	D	.....	.....	
14bab	1956	685	.....	7,500	..... do	435 R	8- -50	.....	.....	.....	D, Ind	.....	.....	Manganese Mine well.
22cbd	7-66	915	6	7,575	Coconino Sandstone and Supai(?) Formation.	680	8-9-66	17	54	3½	PS	.....	T4	Canyon Point well.
(A-11-15)19dda	.....	.....	.....	7,460	Coconino Sandstone	508	6-14-66	.....	.....	.....	D	.....	.....	
20bdc	.....	.....	.....	7,550	..... do	607	6-14-66	.....	.....	.....	D	.....	.....	
(A-12-10)1cab	1-64	743	.....	7,346	Supai(?) Formation	731 R	1-4-64	.....	.....	.....	N	.....	.....	Phelps-Dodge No. 20.
(A-12-12)18acb	12-64	963	5	7,425	Coconino Sandstone and Supai(?) Formation.	640	12-16-64	9	126	1	PS	.....	.....	Knoll Lake well; temperature 11°C.
(A-12-13½)11bbd	7-64	812	6	7,180	Coconino Sandstone	750 R	7-22-64	.....	.....	.....	D	T3	.....	Dye Ranch well.
(A-13-7)14bab	1963	800	6	5,955	Volcanic rocks, sand, and gravel.	752	9-22-66	.....	.....	.....	S	T3	T4	Mud Tanks well.
(A-13-10)6ada	8-64	627	.....	8,865	Coconino Sandstone	468	7-13-66	.....	.....	.....	.....	.....	.....	Fuller No. 2 well.
8dan	8-54	567	.....	8,865	..... do	347	7-13-66	395 R	31 R	72	N	.....	.....	Fuller No. 1 well.
25cna	10-63	726	.....	7,334	..... do	427 R	8-10-64	.....	.....	.....	N	T3	.....	Phelps-Dodge No. 14.
(A-13-13)1ddb	5-52	905	8	7,010	..... do	764	8-13-66	16.5	.....	4½	D	.....	T4	Chevelon Ranger Station well.
(A-14-10)4ac	.....	14	48	6,740	Alluvium	7.6	7-20-66	.....	.....	.....	S	.....	.....	Dug well.
30aca	1954	1,050	.....	6,900	Coconino Sandstone	867	7-13-66	.....	.....	.....	Ind(?)	.....	.....	
32db	.....	23	.....	6,850	Alluvium	15 R	1946	.....	.....	.....	N	.....	.....	Do.
32dbd	6-63	600	17	6,855	Coconino Sandstone	344	6-9-66	525 R	20 R	24 R	D	.....	.....	
(A-14-11)9adc	11-66	670	8	6,905	..... do	533	11-22-66	43	21	0½	PS	T3	.....	Blue Ridge Maintenance Camp well; temperature 13°C.
9dcn	9-58	665	8	6,885	..... do	495	11-22-66	48	20	1½	PS	T3	T4	Timber Ranger Station well.
12bcd	7-34	477	8	6,730	..... do	358	7-21-66	.....	.....	.....	D, S	T3	T4	Moqui Ranch well.
30ddd	10-65	1,000	5	7,323	..... do	841	10-21-65	11	5	18	PS	.....	T4	Rock Crossing well.
(A-14-12)8add	5-66	301	4	6,270	..... do	12	6-8-66	.....	.....	.....	N	.....	.....	Macks Crossing observation well.
(A-15-11)5bdc	.....	809	8	6,710	..... do	640	6-22-66	.....	.....	.....	D, S	.....	T4	Haylake Ranch well.
33adb	.....	550	10	6,740	..... do	430	9-20-66	.....	.....	.....	D	.....	.....	
34dcd	1964	600	6	6,825	..... do	461	9-20-66	.....	.....	.....	PS	.....	.....	
35dad	.....	40	6	6,725	Alluvium	Dry	9-20-66	.....	.....	.....	N	.....	.....	Fisher well.
(A-15-12)4ccc	11-47	778	8	6,410	Coconino Sandstone	629	12-2-66	.....	.....	.....	D, S	.....	T4	South Quail well.

Table 3.--Modified drillers' logs of selected wells in southern Coconino County

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
(A-12-13½)11bbd					
QUATERNARY:			PERMIAN:		
Alluvium:			Coconino Sandstone:		
Soil	15	15	Sandstone, light-cream, Coconino, broken	385	400
			Coconino, pink and red; water at 770	412	812
(A-13-7)14bab					
QUATERNARY:			Sandstone, dark-gray	50	315
Alluvium:			Sandstone, light-gray	30	345
Rocky top soil	4	4	Sandstone, dark-gray	90	435
Clay and boulders	24	28	Basalt, black	27	462
QUATERNARY AND TERTIARY:			Sandstone, dark-gray	20	482
Volcanic rocks, sand, and gravel:			Sandstone, red; quite a bit of lime	38	520
Malpais, black, solid	17	45	Sand, gray and red	73	593
Volcanic ash, red	7	52	Basalt, black	60	653
Malpais, broken	60	112	Sandstone, red	3	656
Malpais, black, solid	38	150	Basalt, black	9	665
Gray sandstone and quartz	62	212	Sandstone, red	18	683
Sandstone, red	18	230	Sandstone, reddish-gray	10	693
Sandstone, gray	12	242	Basalt, black	41	734
Basalt, black	8	250	Sandstone, red	29	763
Sandstone, red	15	265	Basalt, black	37	800
File 3-13 **(A-13-10)25caa**					
QUATERNARY:			Sandstone, broken; some moisture	6	388
Alluvium:			Sandstone, uniform; slight moisture noted in cuttings	82	450
Mud	94	94	Sandstone, broken, quite soft; large quantity of water at 461 feet	11	461
PERMIAN:			Sandstone, broken; increased water	19	480
Kaibab Limestone:			Sandstone, hard	38	518
Limestone, decomposed; slight amount of moisture	17	111	Sandstone, hard, very little change	97	615
Limestone, decomposed; broken area from 135 to 146 feet	36	147	Sandstone, hard, no change	11	626
Coconino Sandstone:			Soft and broken formation	26	652
Sandstone, very little change	179	326	Sandstone, medium-hard	74	726
Sandstone, quite uniform	36	362			
(A-14-11)9adc					
QUATERNARY:			Lime, white, hard	49	197
Alluvium:			Lime, cream-colored, soft	7	204
Soil	4	4	Lime, dark-yellow, hard	6	210
PERMIAN:			Limestone, white	98	308
Kaibab Limestone:			Limestone, tan	78	386
Lime, gray, hard; bad start	19	23	Coconino Sandstone:		
Lime, cream-colored, hard	28	51	Coconino, white	50	436
Lime, light-pink, hard	19	70	Coconino, pink	12	448
Lime, white, hard	12	82	Coconino, tan; hit water at 530 feet	115	563
Lime, white, broken	15	97	Coconino, cream	35	598
Lime, buff-colored, medium-hard	10	107	Coconino, light-brown	42	640
Lime, brown, hard	26	133	Coconino, light-gray	30	670
Lime, dark-gray, broken, cavey	15	148			
(A-14-11)9dca					
QUATERNARY:			Clay, red	30	145
Alluvium:			Limestone	250	395
Lime boulders and clay	8	8	Coconino Sandstone:		
PERMIAN:			Coconino, hard	115	510
Kaibab Limestone:			Coconino with a little water	30	540
Lime; requires blasting to keep straight	107	115	Coconino with a large amount of water	125	665
(A-14-11)12bcd					
PERMIAN:			Limestone, red	8	71
Kaibab Limestone:			Limestone, buff	13	84
Limestone, broken	4	4	Limestone, red	8	92
Limestone, buff, hard	29	33	Limestone, buff, sandy, small seep of water	21	113
Limestone, pink, sandy	5	38	Limestone, gray, sandy	35	148
Limestone, white, sandy, in part very hard	25	63			

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GEOLOGICAL SURVEY