A.T. & S.F. RR ? ATT-SELIGMAN
SW SW 10-23n7w. YAVAPAI CO. NW31

32 ×

in og database

File No. ~~15~~ 31
No. 15D

WATER WELL INFORMATION SHEET

County Yavapai

Area

Well Owner ATT Seligman

LOCATION

T 23N R 7W S 10	Quadrangle, District, and Field Number or Name	Miles West and South of Northeast Corner of Quadrangle
SE SW SW est. 350 fsl 850 fwl		

Total Depth 850	Elevation 5152 GL KB	Samples of Drill-Bit Cuttings and/or Cores (No) Yes Sample File No.

LOGS

Elec Logs	Lithologic	Driller's

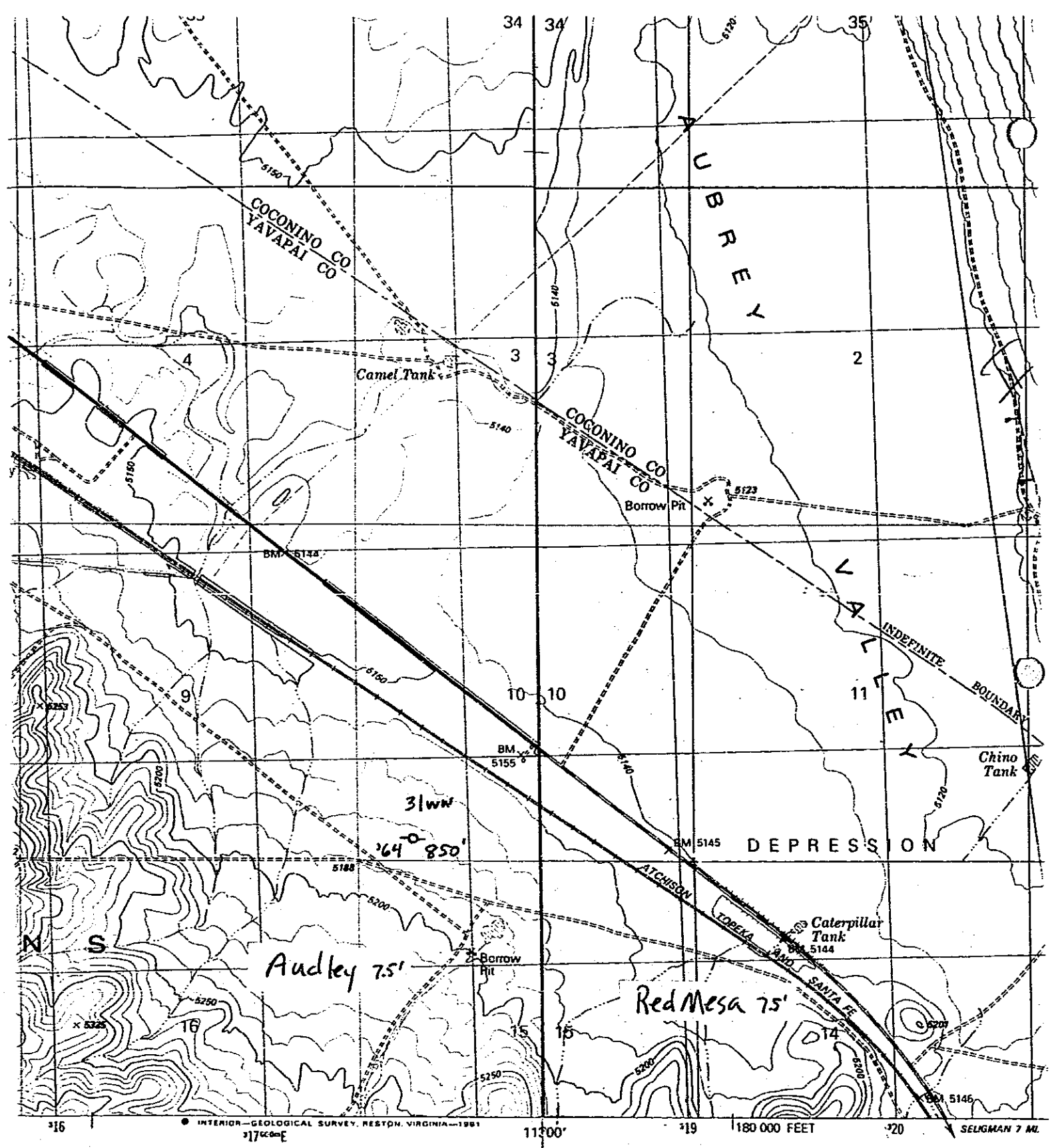
GEOLOGICAL

Formation Tops	Depth			Remarks
	Elec Logs	Lithologic	Driller's	Drilled 1964
				*Had water in Miss Redwall?
				and Devonian Martin?

Source of Formation Top Data: *ALD #33, p. 23

GENERAL

32 ×



ROAD CLASSIFICATION

Primary highway, hard surface

Light-duty road, hard or improved surface

Secondary highway, hard surface

Unimproved road

Interstate Route

U. S. Route

State Route

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1974. Field checked 1975

Map edited 1981

Projection and 10,000-foot grid ticks: Arizona coordinate system, central zone (transverse Mercator)

1000-meter Universal Transverse Mercator grid, zone 12

1927 North American Datum

To place on the predicted North American Datum 1983

32×

WW 71

File No. 71
No14-14D

WATER WELL INFORMATION SHEET

County Maricopa

Area

Well Owner United Metro #2

LOCATION

T	R	S	Quadrangle, District, and Field Number or Name	Miles West and South of Northeast Corner of Quadrangle
2N	1W	SW SE NW 1		

Total Depth	Elevation	Samples of Drill-Bit Cuttings and/or Cores
1318	1060 GL 1066 KB	(No) Yes Sample File No.

LOGS

Elec Logs	Lithologic	Driller's
✓ IE, Micro, Form-Dens.		✓ Attached

GEOLOGICAL

Formation Tops	Depth: Elec Logs	Depth: Lithologic*	Depth: Driller's	Remarks
				*Samples caught but not saved. Bottomed in Salt
caprock		1110±		
Salt		1200±		
T.D. in salt		1318		*Took 15' short cores.

Source of Formation Top Data:* Paul Manera, consultant.

GENERAL

32×

GRAVEL PACKED W/APPROX 1½ TONS 3/8 ROCK

WW #71
Maricopa

0-20 Surface sand and boulders
20-120 Clay and gravel
120-400 Clay sand and gravel and boulders
400-500 Sand and gravel with streaks
500-660 Clay
660-700 Clay with streaks gravel and boulders
700-740 Clay
740-1020 Clay and streak sand and gravel
1020-1200 Clay and malipias
1200-1300 Gravel and clay streaks
Quartz very salty
Top of Salt 1200'

United Metro, Inc. # 2 Water Well.

Maricopa Co., Ariz.
1-2N-1W
SW SE NW

Logged 11-5-69.
T.D. 1300' Driller, 1318' Log.

Elev. 1066 KB
1060 gd.

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
4515 N. 7th AVE.
TELEPHONE 271-5161
PHOENIX, ARIZONA 85013

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
4515 N. 7th AVE.
TELEPHONE 271-5161
PHOENIX, ARIZONA 85013

32 x

15-8s-17E

78

Welex

INDUCTION & ELECTRIC

Released Date

NCHERS EXPLORATION # DEVELOP.
MMOTH #1 15-8S-17E, Pinal Pt. 78

15-8s-17E

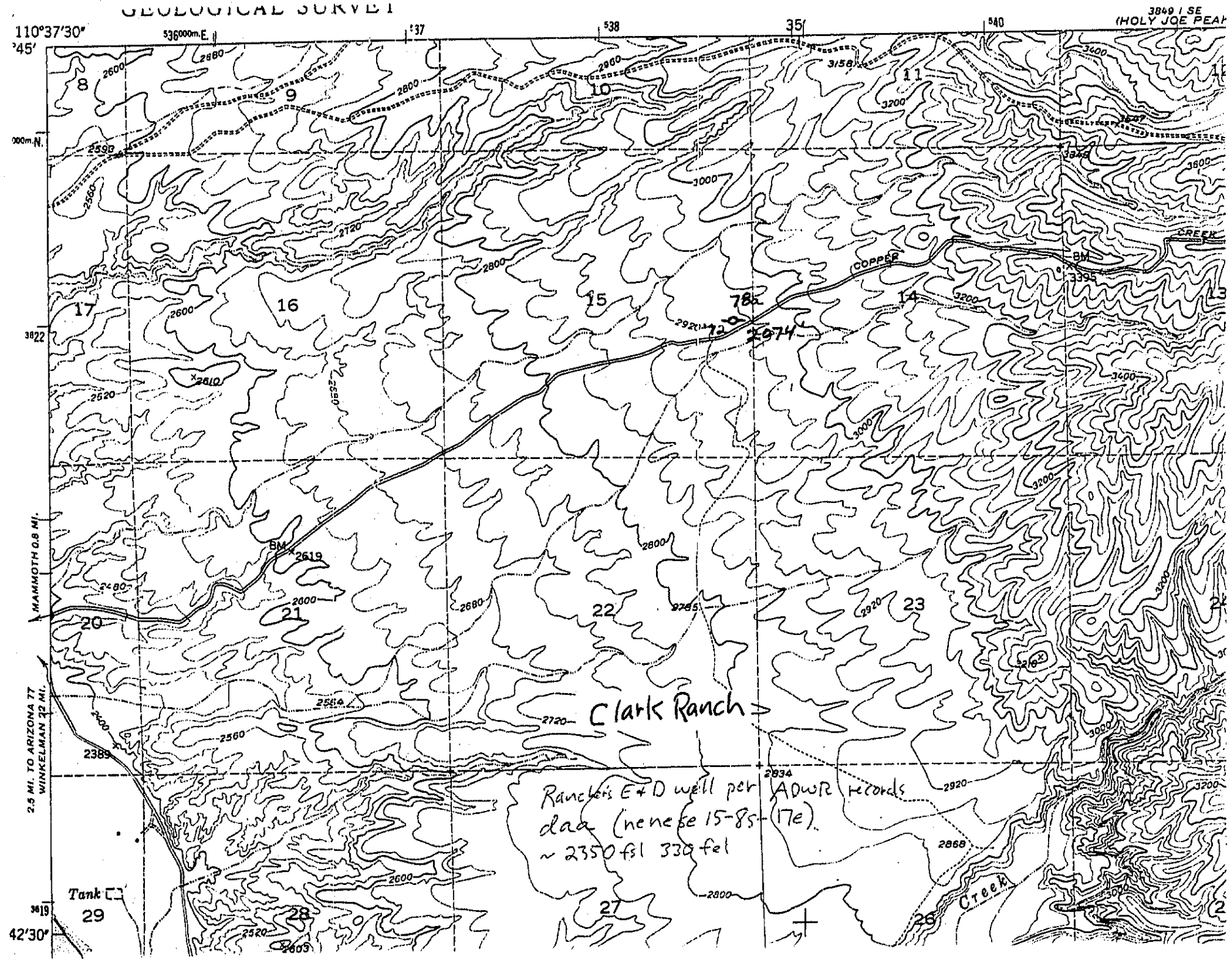
72 COMPENSATED

INDUCTION • ELECTRIC

[redacted]

Release Date

RANCHERS EXPLORATION # DEVELO
MAMMOTH #1 15-8S-17E, Pinal


GEOLOGICAL SURVEY
110°37'30"
536000m.E.
537
538
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540
3849 I SE
(HOLY JOE PEAK
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9
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28
27
26
COPPER
CREEK
Creek
Clark Ranch
Ranch's E+D well per ADWR records
daa (nenese 15-8s-17e).
~ 2350 fsl 330 fel
MAMMOTH 0.8 MI.
2.5 MI. TO ARIZONA 77
WINKELMAN 22 MI.
Tank
42'30"

32 x

ID 78

WW

RANCHERS EXPLORATION AND DEVELOPMENT CORPORATION
Box 6217 / 1776 Montano Road, N.W. / Albuquerque, New Mexico 87107 / Telephone (505) 344-3542

November 26, 1972

Mr. E. A. Koester ETAK
Staff Geologist
Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona

Dear Mr. Koester:

In reply to your letter of November 15, 1972, Ranchers Exploration and Development Corporation drilled a water well in the SE 1/4 of Sec. 15, T. 8 S., R. 17 E., G & S.R.M. early this year. We have not had any elevation checks made on the collar or kelly bushing but have estimated the collar elevation at 2,940 from USGS quadrangle maps.

If I can be of any further help, please feel free to contact me.

Yours very truly,

D K Hogan

D. K. Hogan
Chief Engineer

DKH:sl

ne ne se per ADWR records

LOGS: (1) Induction Electric 120'-2056' T.D. 2074'
(2) Compensated Density Surf-2062' T.D. 2074'

RECEIVED
NOV 27 1972

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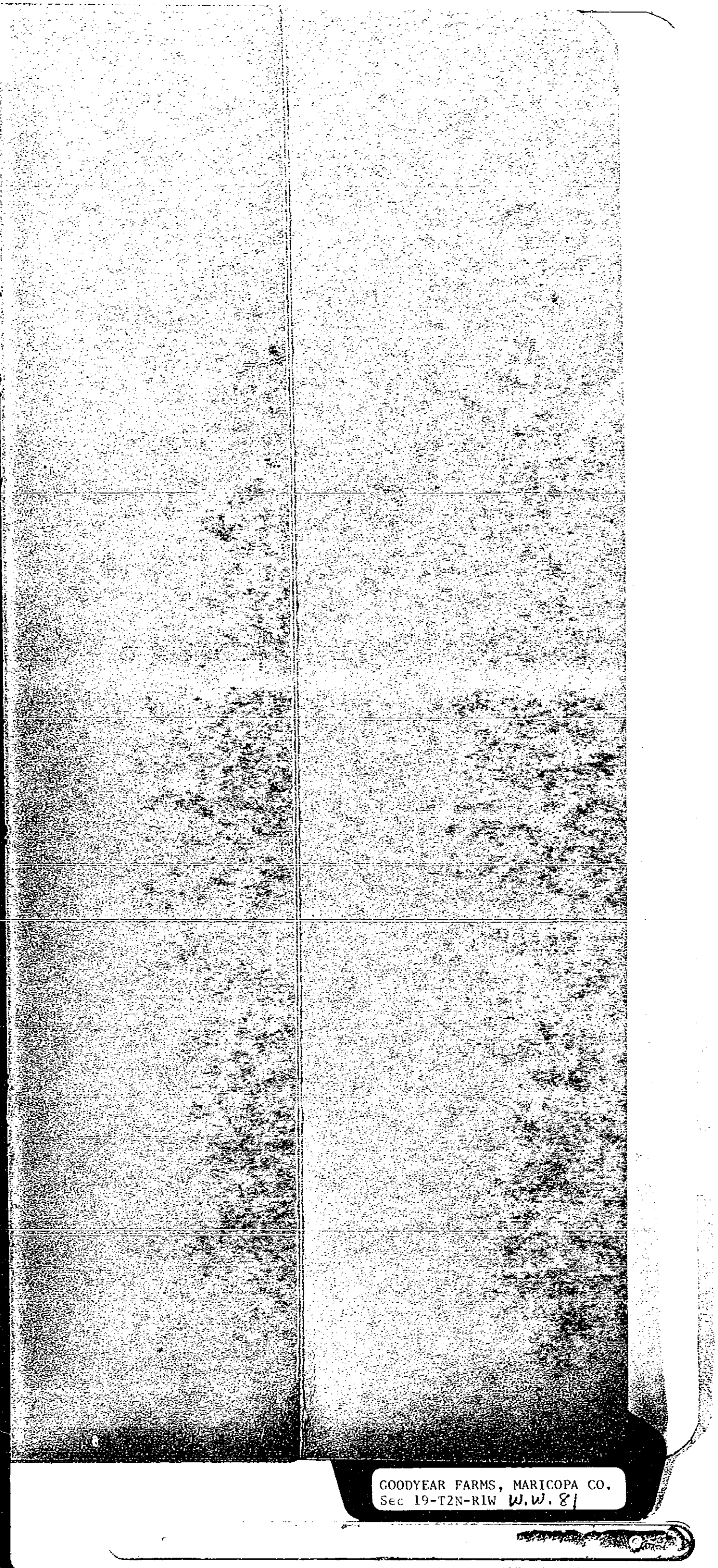

GOODYEAR FARMS, MARICOPA CO.
Sec 19-T2N-R1W W.W. 81

WW 81

File No. 81
#14D

WATER WELL INFORMATION SHEET

County Maricopa

Area

Well Owner Goodyear Farms 19E

LOCATION

T	R	S	Quadrangle, District, and Field Number or Name	Miles West and South of Northeast Corner of Quadrangle
2N	1W	NE NE NW 19		

Total Depth	Elevation	Samples of Drill-Bit Cuttings and/or Cores
2784	1195 GL KB	No Yes ✓ Sample File No. 207 A BM

Sample Discription - Samples F/ 215-2240

LOGS

Elec Logs	Lithologic	Driller's
NONE	✓	✓

In file.

GEOLOGICAL

Formation Tops	Depth: Elec Logs	Depth: Lithologic	Depth: Driller's	Remarks
				Bottomed in Salt-
				P.B. to. 1282'
				Produces fresh water.
Salt.			2318.	Prod. 3327 GPM
T.D. in salt.			2784	Drilled, 1951-53.

Source of Formation Top Data: Co. files

FICATION ABM	OGC	LOCATION	NAME	DATES	ELEV	TD	STRATIGRAPHY BOTTOM	STRATIGRAPHY	TOPS	REMARKS
	1/	19- 2N- 1W NE NE NW	Goodyear Farms #19E	4/53 12/53	1195 Est	2784	Tertiary? salt	Alluvium salt	2318 K	PIPE: 20" @ 1282' 11 3/4" @ 278[illegible]' LOGS: Smpl Des * Samples to 2240 Hole apparently deepened

WATER WELL #81

32×

81

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well ☐ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☐ Gas ☐ Dry ☐

DESCRIPTION OF WELL AND LEASE

Operator: GOODYEAR FARMS	Address: LITCHFIELD PARK, ARIZONA
Federal, State or Indian Lease Number or name of lessor if fee lease	Well Number: 19 F; Field & Reservoir
Location: NE¼, NE¼, NW¼ SEC. 19 T 2NR 1W	County: MARICOPA
Sec. TWP-Range or Block & Survey	

Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) feet	Elevation of casing hd. flange feet
APRIL 1951	DEC. 14, 1953			

Total depth	P.B.T.D.	Single, dual or triple completion?	If this is a dual or triple completion, furnish separate report for each completion.
2784			

Producing interval (s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
		0 - 2784

Was this well directionally drilled?	Was directional survey made?	Was copy of directional survey filed?	Date filed

Type of electrical or other logs run (check logs filed with the commission)	Date filed

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
		20" I.D		0-1282		
		11 3/4" O.D	47#	1220-2784		

TUBING RECORD

Size in.	Depth set ft.	Packer set at ft.

LINER RECORD

Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval
8	5/8"x4"	264 - 1218

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Am't. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production	Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)
3-20-54	

Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity °API (Corr)
3-20-54					3327 GPM	

Tubing pressure	Casing pressure	Cal'ted rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas—oil ratio

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the WATER ENGINEER of the GOODYEAR FARMS (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date

Signature: Carroll Parkman ?? wrote covering letter

RECEIVED AUG 14 1964 STATE O & G CONS. COMM.

Permit No.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy
Form No. 4

(Complete Reverse Side)

32 × 6

81

SUMMARY OF EXPLORATORY WELL
(GOODYEAR FARMS #19-E)
NE¼ NE¼ NW¼ Sec. 19 T2NR1W

THIS WELL WAS PLUGGED BELOW 1282 FT. BECAUSE OF THE HIGH SALT (NACL) CONTENT OF THE WATER.

THE HALLIBURTON OIL WELL CEMENTING COMPANY MADE ITS FIRST ATTEMPT TO SEAL OFF THE SALT BY CEMENTING THE ENTIRE WELL BELOW 2084 FT. DUE TO THE HIGH ARTESIAN PRESSURE OF THE SALT WATER, THE WATER CIRCULATED AROUND THE CEMENT PLUG AND ENTERED THE WELL ABOVE THE PLUG. THIS ACTION OF THE SALT WATER WAS DISCOVERED WHEN THE CASING WAS PERFORATED AT APPROXIMATELY 1900 FT. A SECOND CEMENTING JOB WAS PREFORMED AND AT THIS TIME THE ENTIRE WELL BELOW 1282 FT. WAS CEMENTED. ONLY PUMPING WILL DETERMINE IF THE SALT WATER HAS BEEN COMPLETELY SHUT OFF.

NO ATTEMPT WAS MADE TO DETERMINE THE YIELD OF THE LOWER STRATAS OF THIS WELL BECUSE OF THE SALT WATER BUT DURING DRILLING OPERATIONS BETWEEN 1868 FT. AND 2040 FT. EVIDENCE OF STRONG ARTESIAN PRESSURE WAS PRESENT. THE STATIC LEVEL IN THE WELL WAS AT ITS HIGHEST LEVEL BETWEEN 1868 FT AND 2040 FT. IT STOOD BETWEEN 147 FT. AND 149 FT. ANALYSIS OF THE WATER IN THIS PORTION OF THE WELL SHOWED IT TO BE A GOOD QUALITY FOR IRRIGATION PURPOSES.

RECEIVED
AUG 14 1959
STATE O & G
CONS. COMM.

App by Carroll Parkman,
Engr for
Goodyear Farms.

Well: Goodyear Farms #19E

W.W. #81

Location: NE¼NE¼NW¼ Sec. 19, T. 2 N., R. 1 W.

County: Maricopa

Type Rig: Cable-tool

Run by: S. Schminke and R. E. Geer, U.S.G.S.

Composition Raw Sample

Depth	Rock	Color	% Clay&Silt Est.	% Clay&Silt Calc.	Remarks
215	Silt and clay				Very little fine sand
230	Silt, clay, and caliche				
248	Silt and clay; some caliche				Pebbles up to 45 mm.
254	One large piece of very coarse sandstone				Cement is calcite
258	Pebbles only				Pebbles up to 30 mm.
262	do; very little sand				Pebbles up to 48 mm.
268	Pebbly sand				" " 30 mm.
287	Pebbles; some sand and silt				" " 15 mm.
295	do				" " 40 mm.
308	do				" " 45 mm.
326	Sand, clay and silt				" " 25 mm.
334	Pebbles; some sand and silt				Caliche Pebbles up to 20 mm.
338	Clay and caliche				
340	Clay and silt; some sand				
354	Clay and silt; some sand and pebbles				Pebbles up to 35 mm.
362	Sand with clay and silt; some pebbles				" " 30 mm.
365	Sand; some clay and silt				
374	do				
394	Clay and silt; some pebbles				Pebbles up to 30 mm.
406	Sand; some clay and silt				
414	Clay and silt; some caliche				Caliche pebbles up to 50 mm.
422	do				
428	do				
440	Sand with clay and silt some pebbles				Pebbles up to 30 mm.
445	Clay and silt				
465	Do.; some pebbles				Pebbles up to 20 mm.
468	do				" " 30 mm.
490	Clay and silt				
496	Clay				
504	Sand, clay and silt; some pebbles				Pebbles up to 35 mm.

32 × 1

Well: Goodyear Farms #19E W.W. # 81

Location: NE¼NE¼NW¼ Sec. 19, T. 2 N., R. 1 W. County: Maricopa

Type Rig: Cable-tool Run by: S. Schmink and R. E. Geer, U.S.G.S.

Composition Raw Sample

Depth	Rock	Color	% Clay&Silt Est.	% Clay&Silt Calc.	Remarks
215	Silt and clay				Very little fine sand
230	Silt, clay, and caliche				
248	Silt and clay; some caliche				Pebbles up to 45 mm.
254	One large piece of very coarse sandstone				Cement is calcite
258	Pebbles only				Pebbles up to 30 mm.
262	do; very little sand				Pebbles up to 48 mm.
268	Pebbly sand		"	"	30 mm.
287	Pebbles; some sand and silt		"	"	15 mm.
295	do		"	"	40 mm.
308	do		"	"	45 mm.
			"	"	25 mm.
326	Sand, clay and silt				Caliche
334	Pebbles; some sand and silt				Pebbles up to 20 mm.
338	Clay and caliche				
340	Clay and silt; some sand				
354	Clay and silt; some sand and pebbles				Pebbles up to 35 mm.
362	Sand with clay and silt; some pebbles		"	"	30 mm.
365	Sand; some clay and silt				
374	do				
394	Clay and silt; some pebbles				Pebbles up to 30 mm.
406	Sand; some clay and silt				
414	Clay and silt; some caliche				Caliche pebbles up to 50 mm.
422	do				
428	do				
440	Sand with clay and silt some pebbles				Pebbles up to 30 mm.
445	Clay and silt				
465	Do.; some pebbles				Pebbles up to 20 mm.
468	do		"	"	30 mm.
490	Clay and silt				
496	Clay				
504	Sand, clay and silt; some pebbles				Pebbles up to 35 mm.

32×

WW 81 Maricopa

Goodyear Farms; Sec. 19, T. 2 , R. 1 W., Maricopa County

Depth	Rock	Composition Raw Sample Color	%Clay & Silt Est.	%Clay & Silt Calc.	Remarks
510	do				Pebbles up to 25 mm.
525	Sand with clay and silt; some pebbles				" " 20 mm.
545	Clay and silt				
550	do				
555	Do.; some pebbles				Pebbles up to 25 mm.
568	Clay and silt				
580	Sand; some clay and silt				
586	Clay and silt				
590	Sand; some clay silt and pebbles				Pebbles up to 30 mm.
604	Sand; some clay and silt				
615	Clay and silt				
620	do				
625	do				
630	do.; some sand and pebbles				Pebbles up to 40 mm.
635	Clay and silt; some sand				
642	do				
648	Clay and silt; some sand				
670	do				
680 #1	Sand; some silt and clay				
680 #2	Silt, clay, and sand				
680 #3	do				
700	do				
720	do				
730	do.; some pebbles				Pebbles up to 25 mm.
740	Clay and silt				All of sample washed through 200 screen
745	do				
755	do				
770	do				
780	do.; one pebble				Pebble 25 mm.
802	do				" 35 mm.
806	Clay and silt				
815	do				
830	do				
835	do				

32 ×

Goodyear Farms; Sec. 19, T. 2 N., R. 1 W., Maricopa County

WW #81

Depth	Rock	Composition Raw Sample Color	%Clay & Silt Est.	%Clay & Silt Calc.	Remarks
840	do				
855	do				All of sample except some mica washed thru 200 screen
862	Clay and silt; some pebbles				Pebbles up to 45 mm.
870	Clay and silt				
881	do				
884	Clay and silt; some pebbles				Pebbles up to 45 mm.
925	Clay and silt; one pebble				Pebble 70 mm.
935	Clay and silt				
970	do				
980	do				
1012	do				
1020	do				
1030	do.; one pebble				Pebble 70 mm.
1112	Clay and silt; some sand and pebbles	Light brown 5 YR6/4		89	One gneiss pebble 25 mm.
1140	Clay and silt	do	100		
1146	Clay and silt	Yellowish gray 5Y7/2		95	Micaceous
1170	do.; some sand	grayish orange 10YR7/4		84	
1174	Sandstone	Pale yellowish brown 10YR6/2	-	-	Laminated porous sandstone cement - calcite 26% of rocks cement
1192	Clay and silt; some sand	Light brown 5YR6/4		75	
1194	Sandstone	Pale yellowish brown 10 YR6/2	-	-	Laminated porous sandstone; contains more silt and fine sand than 1174, cement calcite
1206	Clay and silt				
1246	Sand, silt, and clay	grayish orange pink 5YR7/2		61	One subrounded meta-volcanic pebble 55 mm.
1254	Clay and silt; some sand	grayish orange pink 5YR7/2		74	
1270	Sand, silt, and clay	do		64	

Goodyear Farms; Sec. 19, T. 2_, R. 1 W., Maricopa County

WW 81 Maricopa

Depth	Rock	Composition Raw Sample Color	%Clay & Silt Est.	%Clay & Silt Calc.	Remarks
1296	Clay and silt	pale yellowish brown 10YR6/2	100		
1318	Clay and silt; some fine sand	grayish orange 10YR7/4		83	
1337	do	do	80		
1340	do	do	80		
1360	do	do	85		
1390	do	do	80		
1428	do	do	85		
1462	do	do	75		
1516	Sand; some clay and silt	pale yellowish brown 10YR6/2		18	Much fine sand
1630	Clay and silt; some fine sand	do		79	
1660	Anhydrite, clay and silt +400 ≅ Salt @ 2060	light brown 5YR6/4 and white N9	70		
1720	do	do	70		
1740	Clay and silt	light brown 5YR6/4	100		
1785	do	do	100		
1871	Clay and silt; some sand	grayish orange pink 5YR7/2		72	
1910	Fine sand; some clay and silt	pale yellowish brown 10YR6/2		17	
2024	Sand, some clay, silt & pebbles	do		20	Pebbles up to 20 mm.
2028-2074	Sand; very little clay and silt	do		5	
2140	do	grayish orange 10YR7/4		8	
2155	Sand; some silt and clay	do		29	
2230	do	grayish orange pink 5YR7/2		35	
2240	Gravelly sand	pale yellowish brown 10YR6/2		10	Pebbles up to 12 mm. Many rounded granules

LOG OF GOODYEAR FARMS WELL 19-E

19-2N-1W NE NE NW.
Maricopa Co, Az.

W.W. #81

0	6	Soil
6	30	Caliche
30	65	Packed sand
65	82	Clay & gravel
[illegible]	96	Boulders & sand
[illegible]	130	Sand Clay
130	170	Hard clay
170	180	Sand struck water
180	213	Sand Stone
213	230	Silt
230	248	Sand stone & gravel
248	254	Cemented gravel
254	258	Tight gravel
258	262	Loose sand & gravel
262	268	Loose sand & gravel some clay
268	295	Tight gravel
[illegible]	[illegible]	Loose gravel
306	308	Tight gravel
308	326	Loose gravel (water sample) 308-326
326	340	Loose silt sand & gravel
340	354	Tight silt
354	362	Loose gravel
362	374	Clay gravel & sand
374	394	Tight gravel
394	406	Clay some gravel
406	414	Loose gravel
414	490	Tight clay & gravel
490	504	Hard clay
504	545	Sand & gravel
545	555	Clay
555	580	Sand stone & small gravel & water
580	590	Clay
590	620	Clay & sand
620	630	Hard clay
630	815	Clay & some gravel
815	855	Clay silt & water
855	881	Dry silt
881	935	Joint clay & silt
935	970	Silt (water sample 920)
970	1178	Clay & silt dry with little streaks of sand (Water sample 1012)
1178	1192	Silt & sand stone
1192	1194	Clay & trace of sand
1194	1195	Hard sand stone
1195	1206	Clay & fine sand
1206	1246	Clay & silt
1246	1254	Soft clay & silt
1254	1260	Soft sand stone
1260	1296	Sticky clay & silt
1296	1318	Clay
1318	1337	Clay & silt
1337	1340	Sand & silt, very fine-hot water-don't cut in.
1340	1360	Clay & silt (water sample 1340)
1360	1490	Clay very sticky some silt (Water sample 1418)
1490	1516	Silt with a clay binder
1516	1520	Fine grain rock-ledge-very hard
1520	1528	Silt
1528	1570	Silt & sand (water was cold)
1570	1586	Fine sand with salt water don't cut in.
1586	1597	Clay & Silt
*1597	1601	Mountain rock & sand-water hot (water sample 1596)
1601	1605	Clay silt & sand
1605	1615	Fine sand stone & clay
1615	1630	Clay & silt (water level 600 ft.)
1630	1660	Sand stone inlaid in silt, no water
1660	1689	A White mountain gravel in clay & silt
*1689	1700	White spar rock in boulder form
1700	1720	White rock in clay-water rose to 169 ft. (very hot water)

RECEIVED
AUG 14 1964
STATE O & G
CONS. COMM.

32 ×

#81

1700	1719		White rock in sand-water level at 149 ft. (water sample 1729)
1719	1740		Clay & silt more clay
1740	1743		Clay
1743	1747		Hard clay
1747	1810		Clay & silt (water level 158 ft. very hot)
1810	1837		Silt sand stone-with a white lime-water 158 ft.
1837	1840		Hard sand stone-water level 350 ft.
1840	1868		Clay dry
1868	1871		Fine sand & silt-water level 149 ft. (water sample 1868)
1871	1898		Hard silt stone & clay
1898	1910		Sand some gravel & clay-water good
1910	1926		Clay & silt
1926	1936		Fine sand (water sample at 1936)
1936	1968		Hard clay (water sample at 1920)
1968	2004		Soft clay & silt with hot water
2004	2040		Sand & gravel water level 147 ft.
2040	2048		Granite boulders imbeded in hard cemented sand (water sampled 2054)
2048	2054		Granite gravel-loose (water level at 147. temp. 124°
2054	2070		Granite gravel-tight-water level 172
2070	2073		Hard granite ledge
2073	2084		Fine sand & granite gravel-level 147 ft. hot salt water temp. 114°
2084	2106		Granite sand & gravel-filled up pipe 6 ft. (water sample 2098)
2106	2138		Coarse sand-water level 152 ft. temp. 112°
2138	2142		Granite ledge very hard
2142	2155		Sand, clay & silt-water sample 2155 to 2190
2155	2218		Sand stone some clay or silt & granite imbeded
2218	2230		Red sticky clay
2230	2235		Sand, gravel & clay-water level 210 ft.
2235	2255		Hard clay, gravel & silt temp. 124°
2255	2280		Hard clay silt & sand stone water level 180
2280	2311		Soft brown sand stone
2311	2318		Granite boulders imbeded in clay-water level 300 ft. Temp. 129°
2318	2386	68'	Rock salt ledge (don't cut) Water level 168'
2386	2398	12'	Brown sand & salt
2398	2550	152	Salt ledge
2550	2556	6'	Granite ledge (Water sample 2350)
2556	2632	76'	Salt
2632	2636	4'	Sand
2636	2648	12'	Salt
2648	2652	4'	Mountain gravel & sand
2652	2656	4'	Blue rock
2656	2743	87'	Salt
2743	2745	2'	Very hard rock imbedded in salt
2745	2774	29'	Salt
2774	2781	7'	Large granite boulders imbeded in sand stone.
2781	2784	3'	Salt

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LOG OF GOODYEAR FARMS WELL 19-E

19-2N-1W NE NE NW

Maricopa Co, Az.

W.W. #81

0	6	Soil
6	30	Calichia
30	65	Packed sand
65	82	Clay & gravel
82	96	Boulders & sand
96	130	Sand Clay
130	170	Hard clay
170	180	Sand struck water
180	213	Sand Stone
213	230	Silt
230	248	Sand stone & gravel
248	254	Cemented gravel
254	258	Tight gravel
258	262	Loose sand & gravel
262	268	Loose sand & gravel some clay
268	295	Tight gravel
295	306	Loose gravel
306	308	Tight gravel
308	326	Loose gravel (water sample) 308-326
326	340	Loose silt sand & gravel
340	354	Tight silt
354	362	Loose gravel
362	374	Clay gravel & sand
374	394	Tight gravel
394	406	Clay some gravel
406	414	Loose gravel
414	490	Tight clay & gravel
490	504	Hard clay
504	545	Sand & gravel
545	555	Clay
555	580	Sand stone & small gravel & water
580	590	Clay
590	620	Clay & sand
620	630	Hard clay
630	815	Clay & some gravel
815	855	Clay silt & water
855	881	Dry silt
881	935	Joint clay & silt
935	970	Silt (water sample 920)
970	1178	Clay & silt dry with little streaks of sand (Water sample 1012)
1178	1192	Silt & sand stone
1192	1194	Clay & trace of sand
1194	1195	Hard sand stone
1195	1206	Clay & fine sand
1206	1246	Clay & silt
1246	1254	Soft clay & silt
1254	1260	Soft sand stone
1260	1296	Sticky clay & silt
1296	1318	Clay
1318	1337	Clay & silt
1337	1340	Sand & silt, very fine-hot water-don't cut in.
1340	1360	Clay & silt (Water sample 1340)
1360	1490	Clay very sticky some silt (Water sample 1418)
1490	1516	Silt with a clay binder
1516	1520	Fine grain rock-ledge-very hard
1520	1528	Silt
1528	1570	Silt & sand (water was cold)
1570	1586	Fine sand with salt water don't cut in.
1586	1597	Clay & Silt
*1597	1601	Mountain rock & sand-water hot (water sample 1596)
1601	1605	Clay silt & sand
1605	1615	Fine sand stone & clay
1615	1630	Clay & silt (water level 600 ft.)
1630	1660	Sand stone inlaid in silt, no water
1660	1689	A White mountain gravel in clay & silt
*1689	1700	White spar rock in boulder form
1700	1720	White rock in clay-water rose to 169 ft. (very hot water)

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#81

1720	1729		White rock in sand-water level at 169 ft. (Water sample 1729)
1729	1740		Clay & silt more clay
1740	1743		Clay
1743	1747		Hard clay
1747	1810		Clay & silt (water level 158 ft. very hot)
1810	1837		Silt sand stone-with a white lime-water 158 ft.
1837	1840		Hard sand stone-water level 350 ft.
1840	1868		Clay dry
1868	1871		Fine sand & silt-water level 149 ft. (water sample 1868)
1871	1898		Hard silt stone & clay
1898	1910		Sand some gravel & clay-water good
1910	1928		Clay & silt
1928	1936		Fine sand (water sample at 1936)
1936	1968		Hard clay (water sample at 1980)
1968	2004		Soft clay & silt with hot water
2004	2040		Sand & gravel water level 147 ft.
2040	2048		Granite boulders imbeded in hard cemented sand (water sampled 2054)
2048	2054		Granite gravel-loose (water level at 147. temp. 124°
2054	2070		Granite gravel-tight-water level 172
2070	2073		Hard granite ledge
2073	2084		Fine sand & granite gravel-level 147 ft. hot salt water temp. 114°
2084	2106		Granite sand & gravel-filled up pipe 6 ft. (water sample 2098)
2106	2138		Coarse sand-water level 152 ft. temp. 112°
2138	2142		Granite ledge very hard
2142	2155		Sand, clay & silt-water sample 2155 to 2190
2155	2218		Sand stone some clay or silt & granite imbeded
2218	2230		Red sticky clay
2230	2235		Sand, gravel & clay-water level 210 ft.
2235	2255		Hard clay, gravel & silt temp. 124°
2255	2280		Hard clay silt & sand stone water level 180
2280	2311		Soft brown sand stone
2311	2318		Granite boulders imbeded in clay-water level 300 ft. Temp. 129°
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