SITE 13

AQUIFER-TEST REPORT

I. SUMMARY

- A. Location Palm Beach County, Florida
- B. Date August 7, 1986
- C. Well Development 1 hour with air; 2 hours of pumping
- D. Length of Test 368 minutes of pumping
- E. Discharge 329 gallons per minute
- F. <u>Hydraulic Coefficients</u> Transmissivity is \$3,000 square feet per day from observation well data.
- G. Analytical Model Cooper-Jacob straight line
- H. Preparer Leo J. Swayze
- I. Reviewer Subdistrict Ground Water Specialist
- J. <u>Remarks</u> The transmissivity represents the section of the aquifer between 30 and 130 feet below land surface.

II. NARRATIVE

A. Introduction

- Test purpose To provide water managers with hydraulic parameters for ground-water modeling.
- 2. <u>Personnel</u> The test was conducted by personnel (Wayne Sonntag and Jeff Christian) of the U.S. Geological Survey, Water Resources Division, Miami subdistrict.

B. Physical Conditions

- 1. Aquifer description The main water-bearing zone of the surficial aquifer consists primarily of about 100 feet of sandy, shelly limestones interbedded with unconsolidated layers of sand and shell. This is overlain by about 30 feet of a moderately sorted, very fine sand and shelly marl of comparatively lower permeability. The overlying sands and shelly marls act as a confining layer for short periods of pumping. On a long-term pumping basis, the aquifer should be considered as "water table." The base of the surficial aquifer is 130 feet below land surface.
- Site location The test site is located along West Lake Park Road,
 Palm Beach County, Florida (see location map).

Latitude is 26°48′43" Longitude is 80°12′50"

- 3. Well descriptions A geologic test well (PB-1555) was drilled to the base of the aquifer. The section to be tested was then determined by field observation of drill cuttings. The borehole was then backfilled to 123 feet. An observation well was established by screening the interval between 53 and 123 feet. A 9-inch borehole was drilled 30 feet from the observation well. A pumping well (PB-1557) was created by installing 6-inch PVC casing and screening the interval between 50 and 120 feet with 6-inch 10 slot PVC screen (see enclosed construction schedule).
- 4. <u>Pump</u> The well was pumped with a 40-horsepower 4-inch Rupp selfpriming centrifugal pump.
- 5. <u>Drawdown measurements</u> Measurements were made with a chalked tape in both the pumping and observation wells.

- 6. <u>Discharge</u> Discharge was measured using the "free discharge pipe oriface" method as described in the Bureau of Reclamation's Ground Water Manual. A 10-foot length of 12-inch diameter PVC pipe fitted with a 6-inch PVC pipe riser was used to vent H₂S gas before discharge through the oriface was measured. Discharge was 329 gallons per minute.
- 7. <u>Computations</u> Computations are shown on the semilog graph of drawdown versus time. Method of analysis is based on the Cooper-Jacob straight line method as described by Lohman (1972) and Kruseman and DeRidder (1976).

C. Results

23,000 square feet per day. Drawdown data from the observation well approached a horizontal line after about 325 minutes of pumping.

This probably does not represent an equilibrium situation but represents a transition from a confined system to a water-table system.

This transition is due to the permeability contrast between the overlying surficial sands and the sandy and shelly limestones in the pumping zone. Grain-size analysis of the sands yielded a horizontal permeability value of 24 feet per day (Lappala, 1978). Vertical permeabilities could be 2 to 10 times lower (Weeks, 1976). This is about 95 times less than the horizontal permeability of the tested zone (230 feet per day). Based on this physical model of the system, aquifer characteristics were calculated using the Cooper-Jacob straight line method applied to the early drawdown data.

- Transmissivity Aquifer transmissivity is about 23,000 square feet per day for geologic materials between 30 and 130 feet.
- 3. Storage coefficient Not applicable
- 4. Other activities in the area None

5. References

- Kruseman, G.P., and DeRidder, N.A., 1976, Analysis and evaluation of pumping test data: International Institute for Land Reclamation and Improvement/ILRI, Wageningen, The Netherlands, 200 p.
- Lappala, E.G., 1978, Quantitative hydrogeology of the Upper Republican

 Natural Resource District, southwest Nebraska: U.S. Geological

 Survey Water-Resources Investigations Report 78-38, 200 p.
- Lohman, S.W., 1972, Ground-water hydraulics: U.S. Geological Survey

 Professional Paper 708, 70 p.
- Weeks, E.P., 1978, Aquifer tests the state of the art in hydrology:

 Invitational well-testing symposium proceedings, Lawrence-Berkley

 Report LBC-7027, Lawrence-Berkley Laboratory, University of

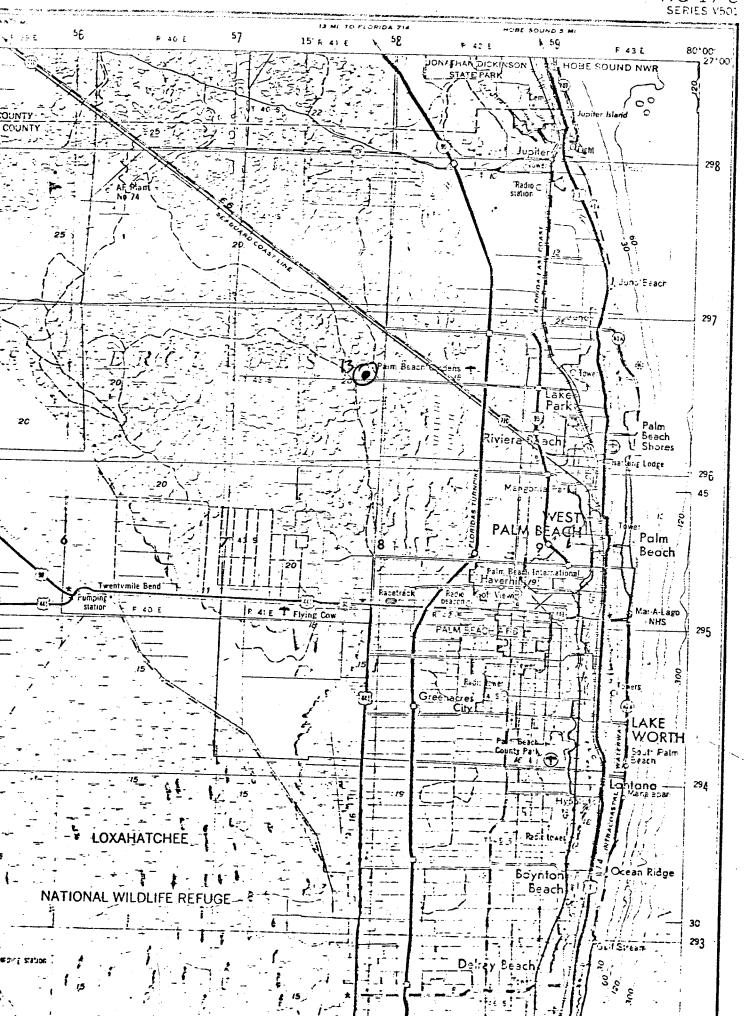
 California, 26 p.

D. <u>Figures</u>

- 1. Map of Palm Beach County with site location.
- 2. Calculations
 - Semilog graph of time versus drawdown for pumping well and observation well.
- 3. Generalized geologic column.
- 4. Drawing of well construction.

<u>Tables</u>

- 1. Lithologic log of test well (observation well).
- 2. Tabulation of field data.

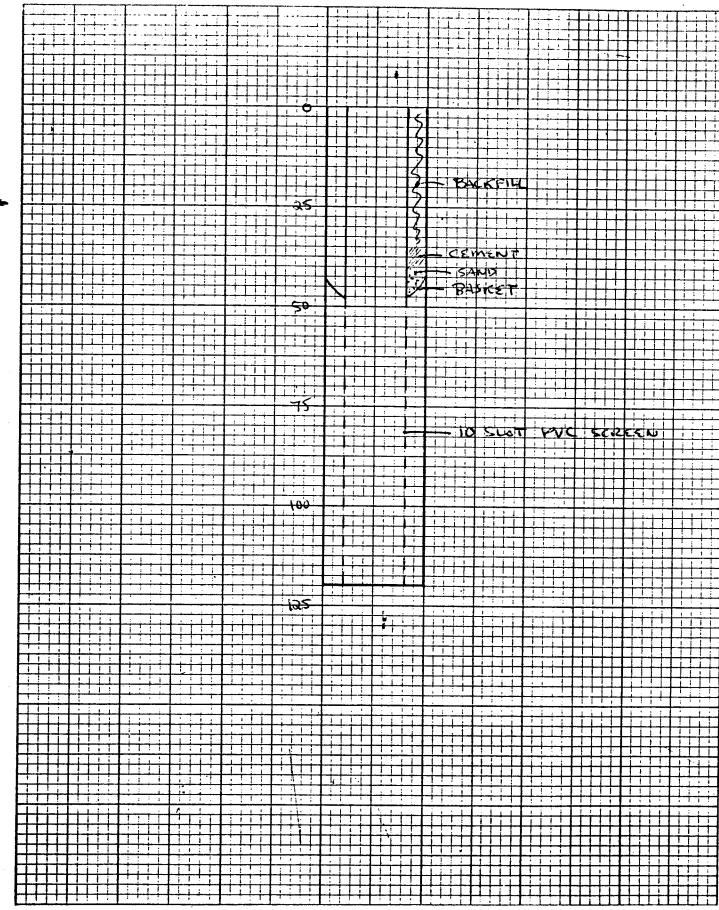


MOTES.

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West Loke Pork Rd

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Well Construction: A 9-inch hole was drilled to 120 feet. A 6-inch PVC casing was then lowered to the bottom of the hole inside the 9-inch steel casing. The steel casing was then pulled back to 40 feet which allowed the basket to open. The open hole was then sand packed and cemented. The rest of the 9-inch steel casing was then removed. The open hole was then backfilled with sand and cuttings.

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1 Page

TIME	NTO.	DISCHARG	E RADIUS
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DRAWDOWIN VO. LIMIE

 $kD = 2.39/417 Aa_{1}$ $= \frac{(2.3)(63332.5)}{(4)(3.14)(.51)}$ $= 22725 ft^{3}/d$

DR. 13.0W PB-1535 OB

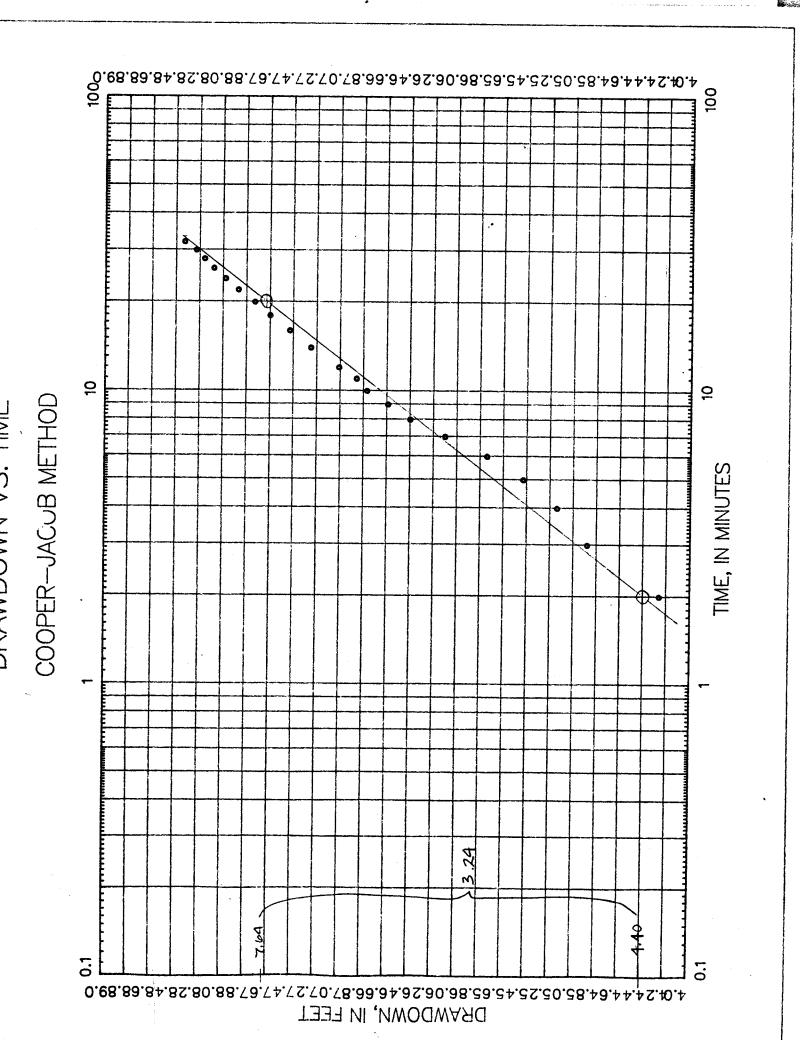
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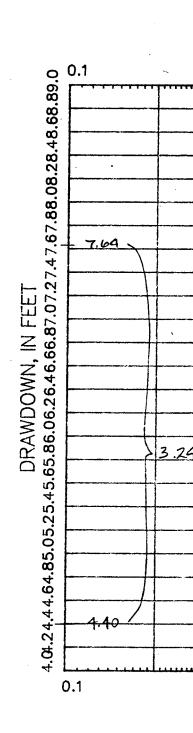
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 $kP = 2.39/4778a_{0}$ = (2.3)(69300) $\overline{(4)(3.14)(3.24)}$

DR.13.PW.4



Lithologic Log of Well PB-1555

Lat 26°48'43", long 80°12'50" Sec. 14, T. 42 S., R. 41 E.

Descript on	-	Thick- ness (feet)	Depth, feet below land surface
Sand, grayish-orange (10 YR 7/4) to yellow 7/2); quartzose, medium to fine, well so to subangular; 1 to 3 percent heavy mine to fine, well sorted, subrounded to round	orted, angular erals, medium	4	0 - 4
Marl, light-olive-gray (5 Y 5/2); micrite size particles; 30 to 35 percent quartze very fine, moderately sorted, angular to 20 to 25 percent detrital carbonates and ments.	ose, medium to o subangular;		4 - 7
Sand, yellowish-gray (5 Y 7/2); quartzose fine, moderately sorted, angular to subt 20 to 25 percent marl; 1 to 3 percent he fine to very fine, subangular to rounded cent detrital carbonates and shell fragment.	counded; about eavy minerals, l; 5 to 10 per-		7 - 10
Sand, yellowish-gray (5 Y 7/2); quartzose to 5 percent heavy minerals, fine to versorted, subangular to rounded; 1 to 3 percentonates; about 3 to 5 percent mud, claim particles.	y fine, well rcent detrital	4 ,	10 - 14
Sand, yellowish-gray (5 Y 7/2) to light-ol 5/); quartzose as above; 3 to 5 percent als, fine to very fine, well sorted, sub rounded; about 10 percent mud, clay and	heavy miner- rounded to	3	14 - 1 7
Sand, light-olive-gray (5 Y 5/2); quartzos very fine, well sorted, angular to subro 5 percent heavy minerals as above; about mud.	unded; 3 to	3	17 - 20
Sand, medium-gray (N 5) to me ium-bluish-g quartzose, fine to very fin , well sorte to subrounded; 5 to 10 percent heavy min to very fine, moderately sorted, subroun 20 to 25 percent detrital carbonates and ments.	d, subangu lar erals, medium ded to rounded;	د	20 - 24
Sand as in 20 to 24 feet.	·	3	24 - 27

<u>Lithologic Log of Well PB-1555</u>--Continued

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, medium-bluish-gray (5 B 5/1) to ive-gray (5 Y 4/1); quartzose as above; 10 to 15 p cent heavy minerals and phosphates, medium to very fine, moderately sorted, subangular to rounded; 20 to 25 percent detrital carbonates and shell fragments; about 5 percent mud.	3	27 - 30
Limestone, medium-bluish-gray (5 B 5/1); sandy, sparse biosparite; 10 to 15 percent quartz, fine to very fine, subangular to subrounded; 3 to 5 percent heavy minerals, fine to very fine, subangular to rounded; very porous, vugs; poorly to moderately cemented; interbedded with about 40 percent sand, medium-bluish-gray (5 B 5/1) to light-olive-gray (5 Y 6/1); quartzose, medium to very fine, moderately sorted, angular to subangular; 3 to 5 percent heavy minerals, fine to very fine, well sorted; subrounded to rounded; 35 to 40 percent detrital carbonates and shell fragments, abundant bivalve fragments, Olivella, Chione.	4	30 - 34
Sand, light-gray (N 7) to light-bluish-gray (5 B 7/1); quartzose, medium to very fine, moderately sorted, angular to subangular; 5 to 10 percent heavy minerals, medium to very fine, moderately sorted, subrounded to rounded; 35 to 40 percent detrital carbonates and shell fragments, abundant bivalve fragments; interbedded with about 30 percent limestone as above.	3	34 - 37
Limestone, medium-light-gray (N 6); sandy, sparse biosparite; 5 to 10 percent quartz, medium to very fine, angular to subrounded; 3 to 5 percent heavy minerals, medium to very fine, subrounded to rounded; very porous; moderately to well cemented; moldic, vugs; interbedded with about 20 percent sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine, moderately sorted, angular to sub ngular; 5 to 10 percent heavy minerals and phosphates, medium to very fine, subrounded to rounded; 20 to 25 percent detrital carbonates and shell fragments, Cardita and other bivalves.	3	37 - 40

Description	Thick- ness (feet)	Depth, fee below land surface
Limestone, medium-gray (N 5); sandy, : irse biosparite, bivalvia; 10 to 15 percent quartz, i lium to very fine, moderately sorted, angular to subangular; moderately cemented; moldic, vugs; very porous; interbedded with about 30 percent sand, detrital carbonates and shell fragments; 25 to 30 percent quartzose, medium to very fine, moderately sorted, angular to subangular; 3 to 5 percent heavy minerals and phosphates, medium to very fine, subangular to rounded.	4	40 - 44
Limestone, medium-gray (N 5); sandy, sparse biosparite, bivalvia; 10 percent quartz, medium to very fine, angular to subrounded; 5 to 10 percent heavy minerals and phosphates, medium to very fine, subangular to rounded; moderately cemented; moldic, vugs, very porous; interbedded with about 30 percent sand as above.	3	44 - 47
Limestone; interbedded with sand as above.	3	47 - 50
Limestone, medium-gray (N 5) to light-olive-gray (5 Y 6/1); sandy, sparse biosparite; 10 to 20 percent quartz, medium to very fine, angular to subrounded; 3 to 5 percent heavy minerals, medium to very fine; subrounded to rounded; moderately to well cemented; vugs, very porous; interbedded with 20 percent sand; detrital carbonates, very coarse to very fine and shell fragments; 30 to 35 percent quartzose, medium to very fine, moderately sorted, angular to subangular; 3 to 5 percent heavy minerals, medium to very fine, moderately sorted, subangular to rounded.		50 - 54
Limestone, interbedded with sand as above	3	54 - 57
Sand, light-gray (N 7); quartzose, medium to very fine, moderately sorted, angular to subrounded; 3 to 5 percent heavy minerals, medium o very fine, moderately sorted, subrounded to round; 30 to 35 percent detrital carbonates and shell fragments; interbedded with about 30 percent limestone, medium-gray (N 5); sandy, sparse biosparite; 15 to 20 percent quartz, medium to very, angular to subrounded; 3 to 5 percent heavy minerals, medium to very fine, subrounded to rounded; moderately cemented; moldic, vugs, very porous.	3	57 - 60

<u>Lithologic Log of Well PB-1555</u>--Continued

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 6/1); quantose, medium to very fine, moderately sorted, angula to subangular; 5 to 10 percent heavy minerals and pusphates, medium to very fine, moderately sorted, subrounded to rounded; 35 to 40 percent detrital carbonates and shell fragments; interbedded with about 40 percent limestone, medium-dark-gray (N 4); sandy, sparse biosparite; 15 to 20 percent quartz, medium to very fine, angular to subrounded; 3 to 5 percent heavy minerals, medium to very fine, subrounded to rounded; moderately cemented; vugs, very porous.	4	60 - 64
Limestone, medium-light-gray (N 6) to yellowish-gray (5 Y 8/1); sandy, packed biosparite, Chione, Conopeum, Tellina; 5 to 10 percent quartz, medium to fine, angular to subangular; 1 to 3 percent heavy minerals, medium to very fine, subrounded to rounded; moderately to well cemented; moldic, vugs, very porous; interbedded with about 20 percent sand; detrital carbonates and shell fragments; 20 to 25 percent quartzose, coarse to very fine, poorly sorted, angular to subangular; 3 to 5 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded.	3	64 - 67
Limestone as above; interbedded with 30 percent sand as above.	3	67 - 70
Sand, yellowish-gray (5 Y 7/2); detrital carbonates and shell fragments, Oliva, Tellina, barnacles, Chione, Cardita; 25 to 30 percent quartzose, medium to very fine, moderately sorted, angular to subangular; 3 to 5 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded; interbedded with about 40 percent limestone as above.	4	70 - 74
and as above; interbedded with about 10 percent lime- stone as above; poorly cemer med; <u>Turritella</u> .	3	74 - 77

Description	Thick- ness (feet)	Depth, feet below land surface
Shell and shell fragments, yellowish-; ny (5 Y 7/2); Turritella, Tellina, Olivella, Card bryzoans, Chione; 20 to 25 percent detrital commandates, very coarse to very fine; 20 to 25 percent quartzose, medium to very fine, moderately sorted, angular to subangular; 3 to 5 percent heavy minerals and phos- phates, medium to very fine, moderately sorted, sub- rounded to rounded; interbedded with about 20 percent limestone, medium-light-gray (N 6); sandy, packed biosparite; 20 to 25 percent quartz, medium to very fine, angular to subangular; 3 to 5 percent heavy minerals and phosphates, medium to very fine, sub- rounded to rounded; poorly cemented; moldic, vugs, very porous.	3	77 - 80
Shell and shell fragments as above; interbedded with limestone as above.	4	80 - 84
Shell and shell fragments, yellowish-gray (5 Y 7/2); Terebra, Glycymeris, Turritella, Diplodonta, Tellina, bryzoans, Cardita, Olivella, Crepidula; 20 to 25 percent detrital carbonates, very coarse to very fine; 20 to 25 percent quartzose, medium to very fine, modertely sorted, angular to subrounded; 5 to 10 percent heavy minerals and phosphates, coarse to very fine, poorly sorted, subrounded to rounded; interbedded with about 10 percent limestone; sandy, packed biosparite.	3	84 - 87
Shell and shell fragments as above; <u>Chlamys</u> , <u>Cancellaria</u> , worm shells, <u>Calliostoma</u> , <u>Chione</u> , limpet, interbedded with about 5 percent limestone, rock fragments.	3	87 - 90
Shell and shell fragments, yellowish-gray (5 Y 8/1); <u>Turritella</u> , <u>Turbonilla</u> , <u>Tellina</u> , bryzoans, limpets, oysters, abundant bivalve fragments, barnacles; 15 to 20 percent detrital carbonates, very coarse to very fine; 20 to 25 percent quartzose, medium to very fine, moderately sorted, angular , subangular; 5 to 10 per- cent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded; inter- bedded with about 5 percent coquina.	4	90 - 94

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, medium-gray (N 5) to yellowish-gray (5 Y 7/2); detrital carbonates and shell fragmerts, Glycymeris, Chione, Turritella; 30 to 35 percent uartzose, medium to very fine, moderately sorted, ang ar to subrounded; 5 to 10 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subangular to rounded; about 3 percent rock fragments.	3	94 - 97
Sand as in 94 to 97 feet.	3	97 - 100
Sand, medium-light-gray (N 6) to yellowish-gray (5 Y 8/1); detrital carbonates and shell fragments, Plicatula, echinoid plates, Limopsis, Anadora, oyster shells, bryzoans, Turritella, limpets; 25 to 30 percent quartzose, medium to very fine, moderately sorted, angular to subangular; 5 to 10 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded; interbedded with about 5 percent limestone; packed biosparite.		100 - 104
Sand as in 100 to 104 feet.	3	104 - 107
Shell and shell fragments, yellowish-gray (5 Y 8/1) to light-gray (N 7); abundant mollusks; 20 to 25 percent detrital carbonates, very coarse to very fine; 20 to 25 percent quartzose as above; 3 to 5 percent heavy minerals as above.	3	107 - 110
Sand, medium-gray (N 5) to yellowish-gray (5 Y 8/1); detrital carbonates and shell fragments, abundant mollusks; 35 to 40 percent quartzose, medium to very fine, moderately sorted, angular to subangular; 3 to 5 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded.	4	110 - 114
Sand as in 110 to 114 feet.	3	114 - 117
Sand as in 114 to 117 feet; <u>Turritella</u> .	3 .	117 - 120
Sand, light-olive-gray (5 Y 6/1) to medium-light-gray (N 6); detrital carbonates, very coarse to very fine; 15 to 20 percent shell fragments, mollusks; 35 to 40 percent quartzose as above; 3 to 5 percent heavy minerals and phosphates as above; interbedded with about 5 percent limestone, light-olive-gray (5 Y 6/1); packed biosparice; poorly cemented; moldic, vugs, very porous.	4	120 - 124

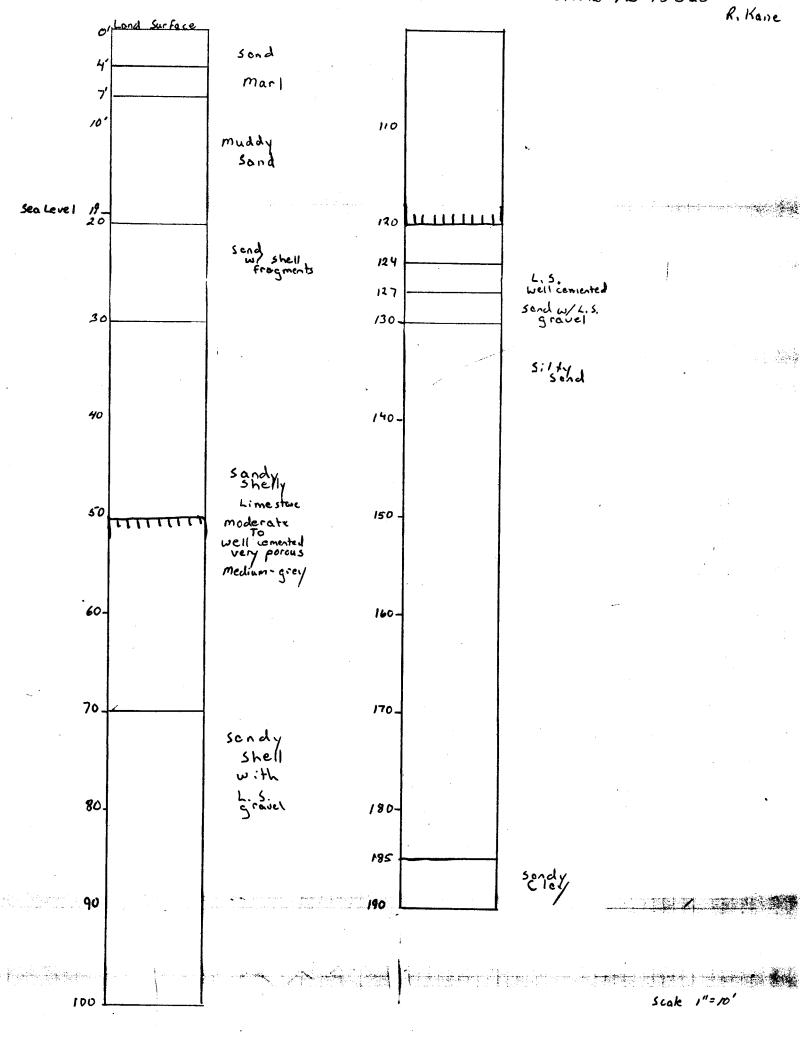
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<u>Lithologic Log of Well PB-1555</u>--Continued

Description	Thick- ness (feet)	Depth, feet below land surface
Limestone, yellowish-gray (5 Y 7/2); sendy, sparse bio- sparite; 15 to 20 percent quartzose ledium to very fine, angular to subrounded; 3 to 5 srcent heavy minerals, medium to very fine, subrounded to rounded; well cemented; moldic, vugs, moderately to very porous.	3	124 - 127
Sand, light-gray (N 7) to yellowish-gray (5 Y 8/1); quartzose, medium to very fine, moderately sorted, angular to subangular; 3 to 5 percent heavy minerals and phosphates, medium to very fine, subrounded to rounded; 35 to 40 percent detrital carbonates and shell fragments, bivalvia, barnacles, bryzoans; in-	3	127 - 130
terbedded with about 10 percent limestone, yellowish- gray (5 Y 7/2); sandy, sparse biosparite; about 10 percent quartz, medium to very fine, angular to subrounded; 3 to 5 percent heavy minerals, medium to very fine, subrounded to rounded; moderately cemented; vugs, moldic, moderately porous.		•
Sand, very light gray (N 8) to yellowish-gray (5 Y 8/1); quartzose, medium to fine, moderately sorted, angular to subrounded; 3 to 5 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded; 15 to 20 percent detrital carbonates and shell fragments; 5 to 10 percent streaks of clay and silt.	,	130 - 134
Sand as above with about 10 to 15 percent green clay nodules.	3	134 - 137
Sand as in 134 to 137 feet.	3	137 - 140
Sand, light-olive-gray (5 Y 6/1); quartzose, medium to very fine, moderately sorted, angular to subrounded; 1 to 3 percent heavy minerals and phosphates, medium to very fine, moderately sorted, subrounded to rounded; 5 to 10 percent detrital carbonates, very coarse to very fine; about 5 percent (ay and silt.	4	140 - 144
Sand, yellowish-gray (5 Y 8/1) to pale-olive (10 Y 6/2); quartzose, fine to very fine, well sorted, angular to subrounded; 1 to 3 percent heavy minerals and phosphates, fine to very fine, well sorted, subrounded to rounded; 1 to 3 percent detrital carbonates; about 10 percent clay and silt.	3	144 - 147

<u>Lithologic Log of Well PB-1555</u>--Continued

Description	Thick- ness (feet)	Depth, feet below land surface
Sand, light-olive-gray (5 Y 5/2); quartzose, fine to very fine, well sorted, angular to mangular; 1 to 3 percent heavy minerals and phosphess, fine to very fine, well sorted, subrounded to rounded; 1 to 3 percent detrital carbonates; 5 to 10 percent clay and silt.	3	147 - 1 50
Sand as in 147 to 150 feet.	10	150 - 160
Sand, light-olive-gray (5 Y 5/2); quartzose, fine to very fine, well sorted, angular to subrounded; 1 to 3 percent heavy minerals and phosphates as above; 1 to 3 percent detrital carbonates; 15 to 20 percent clay and silt.	6	160 - 166
Clayey sand, light-olive-gray (5 Y 5/2); quartzose as above; 1 to 3 percent heavy minerals and phosphates as above; 3 to 5 percent detrital carbonates; 20 to 25 percent clay and silt.	4	166 - 170
Clayey sand as above.	5	170 - 175
Clayey sand, grayish-olive (10 Y 4/2); quartzose as above; 5 to 10 percent heavy minerals and phosphates as above; 3 to 5 percent detrital carbonates; 30 to 35 percent clay and silt.	5	175 - 180
layey sand as above.	5	-180 - 185
andy clay, grayish-olive (10 Y 4/2); clay and silt; 30 to 35 percent quartzose as above; 3 to 5 percent heavy minerals and phosphates as above; 3 to 5 percent detrital carbonates.	5	185 - 190



Dat

APT ANALYSIS

SITE: USGS Site 13 425, Range 41 E 14, Township Section 19 NOVO Elev REPORT: None; Used draft data from USOS Lithologic Log From PB 1555 shows:
Depth Lithology

0'4' Sand GEOLOGIC DATA: Low / very low (semi-continuing) Sand w/ shell (20%) + clay (20) 4-7 Sand w/ trace sandstone 7-14 low conflow (seni- continuing) Quartz and Carbonile sand and Silt 14-30 medium Atternating bors of Carbonate 30'-47' sand, quartz sand, shell and linestone very high 47'-67' Solutioned Limestone, Carbonate sand and shell modum 67-117 Carbonate sand and shell w/ small amount of quartz. 117'-124' mediani Shell w/ Corbonate and

med 124-130' Limestone and Shell, some
quartz sand
quartz sand

Low 130'-110' Quartz sand w/ small amount of carbonate.

Low to very Low 140-150 Quartz sand, Carbonate 5. H

very low 150'-190' Quartz sand, sitt, clay

Based on this sample by:

1) Aguifer is 150' thick at this site

2) There is 20 feet of solutioned limestone

(Turnpike) agaifer present

3) Main preducing zone is from 30' to 130'

below ground level

1) Aguifer is probably semi rontined

WELL DESCRIPTIONS:

cased SCROOM WELL T.P. Dia. Depth 30' 123 PB-1555 53' Screen 6" 50' PB 1557 120 5c reen

INFLUENCING FACTORS:

) Both wells were open to 70% of the main producing zone

USGS APT:

STARTED: 8/7/1986 Duration: 368 min

Discharge: 329 gpm, tree discharge pipe ordere to unspecified location

Recovery: None

COMMENTS: 1) Maximum draudowns were PB1555 2.27 g. 33 PB 1557 2) Drawdowns were measured w/ challed tape

USES ANALYSIS:

METHOD: Jacob

PB 155.7

Rosults: PB1555 T= 22,725 F+2/day

TNot calculated

S not calculated K= 230 Ft/day for b= 100

COMMENTS: 1) Further analysis shows U conditions + limits are met.

2) Steady state conditions were next achieved during this test 3) Slope of line looked a little high.

SFWMO ANALYSIS:

METHOD: Jacob

Rosults T= 25,000 F+2/day

5= .00074

for u < .01 + > .96 min

1) Bad data plata for data earlier than 10 minutes. Athough slope of line looks good, the data should probably be 2) Cannot determine if Jacob analysis is done with proper section of semi log plot due to absence of corty time data. ... I values may actually be lower.

