(8)

APT ANALYSIS

SITE: Martin Downs - Gee & Jenson

Section 11 Township 38 S Range 40 E

271058
801904
1036350N
721850E

REPORT: Addendum #4 Hydrology Study to Martin Downs DRI ADA 2nd ed.

GEOLOGIC DATA: pg. ____, Appendix 2

WELL NUMBER OF WELL DESCRIBED: OW-3D

DEPTH (LSD)	LITHOLOGY
0-5	sand, dk brown, very fine to fine, organic debris
5-15	clayey sand, yellowish gray, clay, very fine to fine
15-30	shell, lt brown to gray, fine to very coarse, uncosol., pelecypods
30-85	shell, as above, limestone, lt gray brown, calcarenite well lithified, minor silica, phosphatic fine sand
85-135	limestone, lt olive gray, calcarenite, well lithified, minor silica, phosph. sand & shell fragm.
135-150	silty sand, olive green, silica sand, carbonate silt phosphatic, consolidated.

major zone - 45' thick (15-135)

Producing zone interval: 100-140 (lsd) 84-124 (msl)

Aquifer name: ____

Static Water Level at the site is approximately 12.25 ft. msl.
4.73 LSD

WELL DESCRIPTIONS:

Well	Diam. (in)	Total Depth	Cased Depth	Scr/Open Interval	Slot Size	Radius
PW	10	140	100	100-140		0
OW-1D	2½	140	80	80-140		97.5
OW-2D	2½	140	80	80-140		216.3
OW-3D	2½	140	80	80-140		51.8
OW-1S	2½	27	7	7-27		23.5

INFLUENCING FACTORS:

Semi confined condition due to well developed hardpan

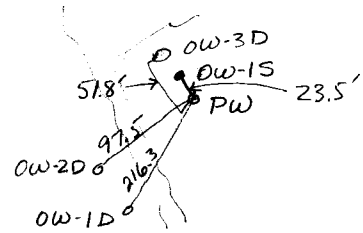
APT: pg. 12

Started: March 16, 1980

Duration: 4320 min = 72 hours

Discharge: 850 gpm

Recovery: 1080 min = 18 hours



Comments:

1) _____

_____

2) _____

_____

3) _____

_____

CONSULTANT'S ANALYSIS: pg. _____

Method: Boulton

Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ( )
OW-1D	89,367	8.8×10^{-4} (Early)	
OW-2D	81,175	.015 (Late)	
OW-3D	90,194	3×10^{-3} (Early)	

Comments: no data for OW-2D for 1st 35 minutes

Method: Jacob Time-Drawdown

Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ( )
OW-1D	93,900	7.1×10^{-4}	
OW-3D	97,600	1.7×10^{-2}	

Comments: _____

Method: _____

Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ( )

Comments: _____

REANALYSIS:

Method: Neuman Fully Penetrating / Partially
Results:

Well	Transmissivity (GPD/FT)	S or Sy	Leakance ( )
OW-1D	88,554 / 167,948	7.34×10^{-4}	
OW-3D	97,410 / 180,388	3.28×10^{-3}	Anisotropy .002

Comments:

Method: Hantush I Semi confined / Hantush Jacob Semi conf, non-steady
Results:

Well	Transmissivity (GPD/FT)		S or Sy		Leakance ( )
OW1D	87,632	86,197	7.8×10^{-4}	8.5×10^{-4}	.0049 d^{-1} = .037 gpd/ft^3
OW3D	~~89,675~~	88,548	3.8×10^{-3}	3.7×10^{-3}	.023 d^{-1} = .17 gpd/ft^3

Don Padgett

Comments:

RECOMMENDED VALUES:

Transmissivity (GPD/FT)	Specific Yield or Storage	Leakance

REFERENCES: