(219)272-9050

Record of Water Well Indiana Department of Natural Resources

Reference **Driving Direction to Well Date Completed** Number

23393 32' W OF PROPERTY LINE AND 430' S OF N PROPERTY LINE, WELL #1 12/16/1992

Owner-Name Address Telephone Contractor **TORRINGTON** Owner SOUTH BEND IN Not available

Operator JOHN BLATZ License: 214

PEERLESS-MIDWEST INC

Construction Details

Driller

Well Use: Other **Drilling Method:** Cable Tool Pump Type: Not available Pump Setting Depth: Not

Depth: 56.0 Water Quality: Not available available

51255 BITTERSWEET RD GRANGER IN

Casing Length: 5.0 Material: STEEL Diameter: 8.0 Screen **Length: 51.0** Material: SSWW Diameter: 8.0

Slot Size: .025

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available **Test**

> Static Water Level: Not available Bailer Drawdown: Not available Drawdown: Not available

Grouting Information

Material: NEAT CEMENT, BENT Depth: From 0.0 To 3.0

> **Installation Method:** Not available Number of Bags Used: Not available

Well

Sealing Material: Not available Depth: From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SW of the NW of the NE of Section 16

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available

available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Northing:** Not available **UTM Easting:** Not available

Well Log

Тор	Bottom	Formation
0.0	2.0	MUCK
2.0	43.0	V COARSE SAND AND GRAVEL
43.0	45.0	MED SAND
45.0	56.0	COARSE SAND AND GRAVEL
56.0	0.0	BROWN CLAY

Comments

Print Page	Back
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Reference **Driving Direction to Well Date Completed** Number

US ROUTE 20 S FROM INDY TURNPIKE E TO SHERDAN AVE, S TO SAMPLE, E

ON SAMPLE PLANT IS ON S SIDE OF SAMPLE(TORRINGTON COMPANY 3702 7/16/1992

W SAMPLE SOUTH BEND)

Owner-Contractor Name Address Telephone Owner TORRINGTON CO 3702 W SAMPLE SOUTH BEND IN Not available NORTH COAST DRILLING Driller PO BOX 33207 CLEVELAND OHIO (216)582-4997

SERVICES Operator D TRACY TETER License: 926

Construction Details

28544

Well Use: Not available **Drilling Method:** Not available Pump Type: Not available

Pump Setting Depth: Not **Depth:** 55.0 Water Quality: Not available available

Length: 40.0 Material: S S Casing Diameter: 4.0 Material: S S Screen **Length:** 15.0 Diameter: 4.0

Slot Size: .010

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information

Material: PORTLAND I **Depth:** From 36.0 To 0.0

Installation Method: TREMY Number of Bags Used: 11.0

Well

Depth: From (not available) To (not available) Sealing Material: Not available **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH

> Range: 2E Section: NE of Section 16

> Grant: Not available Topo Map: SOUTH BEND WEST

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

Township: 37N

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Aguifer Elevation: Not available Bedrock Elevation: Not available **UTM Northing:** Not available **UTM Easting:** Not available

Well Log

Тор	Bottom	Formation
0.0	2.0	BRN SILTY SAND
2.0	7.0	GRAY SILTY SAND
7.0	12.0	GRAY HEAVING SANDS
12.0	17.0	GRAY HEAVING SANDS
17.0	22.0	GRAY HEAVING SANDS
22.0	27.0	GRAY HEAVING SANDS
27.0	32.0	GRAY HEAVING SANDS
32.0	37.0	GRAY HEAVING SANDS
37.0	42.0	GRAY HEAVING SANDS
42.0	47.0	GRAY HEAVING SANDS
47.0	52.0	GRAY HEAVING SANDS

52.0 | 57.0 | TD 55FT GRAY CLAY

Comments None

Reference **Driving Direction to Well Date Completed** Number

US ROUTE 20 S FROM IND, TURNPIKE E TO SHERIDAN AVE,S TO SAMPLE ST,7/15/1992 28553

E ON SAMPLE, PLANT IS ON S SIDE OF W SAMPLE

Owner-Contractor Name Telephone Owner TORRINGTON COMPANY 3702 W SAMPLE SOUTH BEND IN Not available Driller NORTHCOAST DRILLING SERVICESPO BOX 33207 CLEVELAND OHIO (216)582-4997

Operator D TRACY TETER License: 926

Construction Details

Well Use: Other Drilling Method: AUGER Pump Type: Not available Pump Setting Depth: Not

Depth: 21.0 Water Quality: Not available available

Material: SS Length: 6.0 Diameter: 4.0 Casing Material: SS Screen **Length: 15.0** Diameter: 4.0

Slot Size: .010

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 6.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available Depth: From 3.0 To 1.0 Information

> Installation Method: PUMP Number of Bags Used: 1.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NE of Section 16 Range: 2E

> Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available **Depth of Bedrock:** Not available Bedrock Elevation: Not available Aguifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Top **Bottom Formation** 2.0 0.0 BRN S 2.0 7.0 GRAY SILTY SAND 12.0 7.0 GRAY S & G 12.0 17.0 GRAY S & G 17.0 21.0 GRAY S & G

Comments

Reference **Driving Direction to Well Date Completed** Number

US ROUTE 20 S FRON IND TURNPIKE E TO SHERIDAN AVE, SOUTH TO 28554

SAMPLE ST, E ON SAMPLE, PLANT IS ON S SIDE OF STREET

7/17/1992

Owner-Contractor Name Telephone Address Owner TORRINGTON COMPANY 3702 W SAMPLE SOUTH BEND IN Not available Driller NORTHCOAST DRILLING SERVICESPO BOX 33207 CLEVELAND OHIO (216)582-4997

Operator D TRACY TETER License: 926

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available

Pump Setting Depth: Not **Depth: 21.0** Water Quality: Not available available

Material: SS Length: 6.0 Diameter: 4.0 Casing Material: SS Screen **Length: 15.0** Diameter: 4.0

Slot Size: .010

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 6.0 ft. Bailer Drawdown: Not available

Grouting Material: PORTLAND I Depth: From 3.0 To 1.0 Information

> Installation Method: TREM Number of Bags Used: 1.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Range: 2E Section: NE of Section 16

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available **Depth of Bedrock:** Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	2.0	BRN SILTY S
2.0	7.0	GRAY SILTY S
7.0	12.0	GRAY S
12.0	17.0	GRAY S
17.0	22.0	GRAY S

Comments

Reference **Driving Direction to Well Date Completed** Number

US 31 TO AUTEN GO W TO DEAD END N PORTAGE GO NORTH 2 BLOCKS GO

TO 2ND ENTRANCE SANDY BROOK DRIVE DEAD ENDS WELL LOCATE 15 41344 12/8/1982

FOOT SE OF HOUSE

Owner-Contractor Name Address Telephone Owner JACKIE VIDA 414 W CALVERT SOUTH BEND Not available Driller LANGEFELDT & PAYNE INC 14198 LINCOLN HWY PLYMOUTH IN Not available

Operator COLIN MONTGOMERY License Not available

Construction Details

Well Use: Home **Drilling Method:** Rotary Pump Type: Not available

> Pump Setting Depth: Not Water Quality: Not available **Depth: 140.0**

available

Length: 136.0 Material: Not available Casing Diameter: 4.5 Material: Not available Diameter: 3.0 Screen Length: 4.0

Slot Size: 5.5

Well Capacity

Type of Test: Not available Test Rate: 30.0 gpm for 1.0 hrs. Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 72.0 ft. Bailer Drawdown: Not available

Grouting

Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Depth: From (not available) To (not available) Sealing Material: Not available Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative

County: ST. JOSEPH Township: 37N

Section: NW of the SE of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located On: 7/22/1983 Field Located By: RPD

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 780.0 Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
86.0	115.0	FINE SILTY BROWN SAND
115.0	140.0	VERY LARGE CLEAN BROWN GRAVEL
0.0	16.0	LARGE BROWN GRAVEL
16.0	86.0	MEDIUM BROWN SAND

Comments

Reference **Driving Direction to Well Date Completed** Number

US ROUTE 20 SOUTH FROM INDIANA TURNPIKE EAST TO SHERIDAN AVE,

SOUTH TO SAMPLE ST. EAST ON SAMPLE PLANT IS ON SOUTH SIDE OF 67890 7/15/1992

WEST SAMPLE

Owner-Contractor Name Address Telephone Owner TORRINGTON COMPANY 3702 WEST SAMPLE SOUTH BEND IN Not available Driller NORTHCOAST DRILLING SERVICESP.O.BOX 33207 CLEVELAND OH Not available

Operator D. TRACEY TETER License: 926

Construction Details

Well Use: Test Pump Type: Not available **Drilling Method:** Not available

> Pump Setting Depth: Not Water Quality: Not available **Depth: 22.0**

available

Length: 7.0 Material: STANLESS Casing Diameter: 4.0

Length: 1.5 Material: STAINLESS Diameter: 4.0 Screen Slot Size: .010

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information

Material: PORTLAND TPC I Depth: From 3.0 To 1.0

> Installation Method: TREMY Number of Bags Used: 2.0

Well Abandonment

Sealing Material: Not available **Depth:** From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH

Township: 37N

Section: SE of Section 9 Range: 2E Topo Map: LAKEVILLE Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	5.0	BROWN SAND
5.0	7.0	GREY BLACK SAND HEAVY ODOR
10.0	12.0	GREY SAND & GRAVEL
15.0	17.0	HEAVING GREY SAND GRAVEL
20.0	22 0	HEAVING GREY SAND GRAVEI

Comments see map

Reference **Driving Direction to Well Date Completed** Number

25' S OF NORTH PROPERTY LINES APPROX 1400'W OF OLIVE ST 72792 3/30/1966

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE NORTHERN Not available Not available

Operator PAUL WYATT License Not available

Construction Details

Well Use: Public Supply Drilling Method: Not available Pump Type: Not available

Pump Setting Depth: Not **Depth: 167.0** Water Quality: Not available available

Length: 117.0 Material: Not available Diameter: 38.0 Casing

Diameter: 26.0 Material: Not available Screen Length: 40.0

Slot Size: 0.055

Well Capacity Type of Test: Not available **Test Rate:** 2,118.0 gpm Bail Test Rate: Not available Test

Drawdown: Not available Static Water Level: 21.6 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: SW of the NE of the NW of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 716.0 Depth of Bedrock: 167.0 **Bedrock Elevation:** 549.0 Aguifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log Comments PLOTTED ON BASE MAP, PLOTTED ON **BED ROCK MAP**

Reference **Driving Direction to Well Date Completed** Number

500' E OF SAMPLE ST 650' S OF OLIVE ST 72793 2/13/1981

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE NORTHERN Not available Not available

Operator DON SNYDER License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth: 20.0** Water Quality: Not available

available

Length: 11.5 Material: Not available Diameter: 4.0 Casing Material: Not available Diameter: 4.0 Screen **Length: 10.0**

Slot Size: .015

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NW of the NW of the NE of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aguifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	3.0	FILL
3.0	8.0	GRAY SILTY SAND AND CLAY
8.0	20.0	CRS SAND AND GRAV

Comments

MONITOR WELL 6

-20

Reference **Driving Direction to Well Date Completed** Number

APRX 50' E OF WATER SUPPLY WELL 4 MAP ATTACHED 72794 8/7/1984

Owner-Contractor Name Address Telephone **TORRINGTON CO** S BEND Not available Owner 51255 BITTERSWEET RD PO BOX 26 Driller PEERLESS MIDWEST INC Not available

GRANGER

JOHN BLATZ License Not available Operator

Construction Details

Well **Use:** Industry **Drilling Method:** Cable Tool Pump Type: Not available Pump Setting Depth: Not

Depth: 64.0 Water Quality: Not available available

Length: 59.0 Material: Not available Diameter: 5.0 Casing Screen Length: 5.0 Material: Not available Diameter: 5.0

Slot Size: .012

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: SE of the NW of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 712.0 **Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aquifer Elevation: 651.0 UTM Easting: 558325 **UTM Northing:** 4612350

Well Log

Тор	Bottom	Formation
0.0	0.4	REINFORCED CONCRETE
0.4	0.8	BLACKTOP PAVEMENT
0.8	34.0	MED CRS SAND W/ GRAV
34.0	34.5	CLAY LENS
34.5	40.0	GRAV W/ SOME MED SAND
40.0	61.0	MED CRS SAND W/ GRAV
61.0	0.0	GRAVELLY SANDY CLAY

Comments

WELL 1

Reference Number Driving Direction to Well Date Completed

72795 N345, E3885 6/9/1983

Owner-Contractor NameAddressTelephoneOwnerNEW ENERGY CO OF INDIANASOUTH BEND INNot available

Driller PEERLESS MIDWEST INC P O BOX 26 GRANGER IN Not available Operator MIKE GARRAGE License Not available

Construction Details

Well Use: Industry Drilling Method: REVERS CIR Pump Type: Not available

Depth: 145.0 Pump Setting Depth: Not available Water Quality: Not available

Casing Length: 115.0 Material: Not available Diameter: 16.0

Screen Length: 173.0 Material: Not available Diameter: 16.0 Material: Not available Diameter: 16.0

Slot Size: .055

Well Capacity
Test
Type of Test: Not available
Test
Test Rate: 1,200.0 gpm for 8.0
hrs.

Test Rate: 1,200.0 gpm for 8.0
hrs.

Bail Test Rate: Not available

Drawdown: 84.0 ft. Static Water Level: 24.0 ft. Bailer Drawdown: Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well
Abandonment
Sealing Material: Not available
Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of the NW of the SW of Section 16

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available

Ft W of EL: Not available

Ft E of WL: Not available

Ft S of NL: Not available

Ft S of NL: Not available

Ground Elevation: Not available

Bedrock Elevation: Not available

UTM Easting: Not available

UTM Northing: Not available

UTM Northing: Not available

Well Log

Тор	Bottom	Formation	
0.0	12.0	FN & MEDIUM SAND	
12.0	40.0	FN TO MEDIUM SAND W/GRAVEL	
40.0	52.0	MEDIUM SAND	
52.0	56.0	MEDIUM SAND & GRAVEL	
56.0	65.0	MEDIUM SAND	
65.0	75.0	SANDY CLAY & GRAVEL	
75.0	80.0	SAND, CLAY GRAVEL & BOULDERS	
80.0	85.0	S&G	
85.0	94.0	FN SAND	
94.0	100.0	SANDY CLAY & GRAVEL	
100.0	106.0	SAND, GRAVEL & CLAY	
106.0	116.0	S&G	
116.0	126.0	FN TO MEDIUM SAND (SOME GRAVEL	
126.0	145.0	S&G	

|145.0 | 0.0 | CLAY

Comments WELL #5, WATER QUALITY DATA AVAILABLE

Reference Driving Direction to Well Date Completed

72798 500'E OF OLIVE ST 650'S OF SAMPLE ST 2/17/1981

Owner-Contractor NameAddressTelephoneOwnerCITY OF SOUTH BENDNot availableNot availableDrillerLAYNE NORTHERNNot availableNot available

Operator DON SNYDER License Not available

Construction Details

Well Use: Not available Drilling Method: Rotary Pump Type: Not available

Depth: 181.0 Pump Setting Depth: Not water Quality: Not available

Available available water quality

Length: 133.0 Material: Not available Diameter: 4.0

Casing Length: 133.0 Material: Not available Diameter: 4.0 Screen Length: 10.0 Material: Not available Diameter: 4.0

Slot Size: 0.025

Well Capacity
Test
Type of Test: Not available
Test Rate: Not available
Test Rate: Not available
Bail Test Rate: Not available

Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well
Abandonment
Sealing Material: Not available
Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NW of the NW of the NE of Section 15

Topo Map: SOUTH BEND WEST

Field Located By: Not available

Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name:Not availableFt W of EL:Not availableFt E of WL:Not availableGround Elevation:718.0Lot Number:Not availableFt N of SL:Not availableFt S of NL:Not availableDepth of Bedrock:178.0

Bedrock Elevation: 540.0 Aquifer Elevation: Not available

UTM Easting: 559800 UTM Northing: 4612450

Well Log Comments PLOTTED ON BASE MAP, PLOTTED ON BEDROCK MAP, MONITOR WELL MW6-140

Reference **Driving Direction to Well Date Completed** Number

72799 Not available 3/18/1965

Owner-Contractor Name Address Telephone Owner Not available Not available Not available Driller LAYNE NORTMEN Not available Not available

Operator GEORGE PETZ License Not available

Construction Details

Well Drilling Method: Not available Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 112.0 Water Quality: Not available available

Length: 93.0 Material: Not available Diameter: 16.0

Casing

Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity Test Rate: Not available Bail Test Rate: Not available Type of Test: Not available Test

Drawdown: Not available Static Water Level: 13.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well Sealing Material: Not available **Depth:** From (not available) To (not available)

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NE of the NW of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: HCK **Location Accepted w/o Verification On: 7/1/1973**

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 712.0 Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available

UTM Northing: Not available **UTM Easting:** Not available

Well Log Comments PLOTTED ON BASE MAP

Abandonment

Bail Test Rate: Not available

Record of Water Well **Indiana Department of Natural Resources**

Reference **Driving Direction to Well Date Completed** Number

72800 N520 E 4260 NORTH OFCALVERT ST 5/13/1983

Owner-Contractor Name Address **Telephone** NEW ENERGY CO OF INDIANA SOUTH BEND IN Not available Owner Driller PEERLESS MIDWEST INC P O BOX 26 GRANGER IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Test

Grouting

Well **Use:** Industry **Drilling Method:** REVERSE CIR **Pump Type:** Not available

Pump Setting Depth: Not **Depth:** 127.0 Water Quality: Not available available

Material: Not available Diameter: 16.0 Length: 70.0 Casing Length: 10.0 Diameter: 16.0 Screen Material: Not available

Slot Size: .060

Well Capacity **Test Rate:** 2,210.0 gpm for 8.0 Type of Test: Not available

Drawdown: 29.0 ft. Static Water Level: 24.0 ft. Bailer Drawdown: Not available

Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NE of the NW of the SE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available **Ft N of SL:** 1,900.0

Ft E of WL: 4,260.0 Ft S of NL: Not available **Ground Elevation: 715.0 Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aguifer Elevation: 588.0

UTM Easting: 558584 **UTM Northing:** 4611517

Well Log

Тор	Bottom	Formation
0.0	0.0	STOPPED IN FORMATION
0.0	4.0	FILL SAND
4.0	19.0	FN SAND SOME GRAVEL
19.0	48.0	MEDIUM SAND & GRAVEL
48.0	55.0	CLAY
55.0	66.0	FINE SAND
66.0	80.0	CRS SAND & GRAVEL
80.0	118.0	FINE SAND
118.0	127.0	CRS SAND & GRAVEL
127.0	0.0	CLAY

Comments

MC, PLOTTED ON BASE MAP, WELL

#4

Reference **Driving Direction to Well Date Completed** Number

72803 500' E OF OLIVE ST 650' S OF SAMPLE ST 2/18/1981

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE NORTHERN Not available Not available

Operator DON SNYDER License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 80.0 Water Quality: Not available

available

Length: 72.0 Material: Not available Diameter: 4.0 Casing Material: Not available Diameter: 4.0 Screen **Length: 10.0**

Slot Size: .025

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the NW of the NE of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 716.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aguifer Elevation: 636.0 UTM Easting: 559831 **UTM Northing:** 4612390

Well Log

Тор	Bottom	Formation
0.0	3.0	TOP SOIL
3.0	8.0	BR SANDY CLAY
8.0	26.0	MD SAND AND GRAV
26.0	29.0	BR CLAY
29.0	52.0	CRS SAND AND GRAV
52.0	54.0	BR CLAY
54.0	80.0	CRS SAND AND GRAV

Comments

MONITOR WELL 6

-80

Reference **Driving Direction to Well Date Completed** Number

72804 Not available 8/9/1973

Owner-Contractor Name Address **Telephone** Owner ARMCO STEEL 3202 W SAMPLE ST Not available Driller SRIVER DRILLING CO 2320 INDIANA AVE Not available

Operator TOM KONZEN License Not available

Construction Details

Well **Use:** Industry **Drilling Method:** Jet Pump Type: Not available

Pump Setting Depth: Not **Depth:** 58.0 Water Quality: Not available available

Length: 54.5 Material: Not available Diameter: 2.0

Casing Diameter: 1.3 Material: Not available Screen Length: 3.5

Slot Size: 10

Well Capacity

Well

Type of Test: Not available Test Rate: 15.0 gpm for 1.0 hrs. Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 16.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Abandonment

Sealing Material: Not available **Depth:** From (not available) To (not available)

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the NE of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 711.0 **Depth of Bedrock:** Not available Bedrock Elevation: Not available Aguifer Elevation: 653.0

UTM Northing: 4612350 UTM Easting: 558525

Well Log

Top Bottom **Formation** 0.0 58.0 SAND AND GRAV

Comments PLOTTED ON BASE MAP.

Reference **Driving Direction to Well Date Completed** Number

72805 N360 E 3885 6/16/1983

Owner-Contractor Name Address **Telephone** NEW ENERGY CO OF INDIANA Owner SOUTH BEND IN Not available Driller PEERLESS MIDWEST INC P O BOX 26 GRANGER IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Well Drilling Method: REVERSE CIRC Pump Type: Not available **Use:** Industry

> Pump Setting Depth: Not **Depth:** 149.0 Water Quality: Not available available

Length: 109.0 Material: Not available Diameter: 16.0 Casing Material: Not available Diameter: 16.0 Screen Length: 10.0

Slot Size: .055

Well Capacity

Test Rate: 1,200.0 gpm for 8.0 Bail Test Rate: Not available Type of Test: Not available Test

> Drawdown: 75.0 ft. Static Water Level: 24.0 ft. Bailer Drawdown: Not available

Grouting Information

Material: Not available **Depth:** From (not available) To (not available)

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative

County: ST. JOSEPH Township: 37N

Section: SE of the NW of the SE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available **Ft N of SL:** 1,800.0 Ft E of WL: 3.885.0 Ft S of NL: Not available

Ground Elevation: 715.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation: 566.0** UTM Easting: 558456 **UTM Northing:** 4611489

Well Log

Тор	Bottom	Formation
0.0	16.0	FN & MEDIUM SAND
16.0	39.0	FN & MED SAND TRACE OF GRAVEL
39.0	63.0	MEDIUM SAND (TRACE OF GRAVEL)
63.0	74.0	SANDY CLAY WITH GRAVEL
74.0	79.0	S&G
79.0	83.0	S&G AND CLAY
83.0	88.0	S&G
88.0	96.0	FN & MED SAND (SOME GRAVEL)
96.0	99.0	S&G WITH CLAY
99.0	109.0	CLAY GRAVEL & BOULDERS
109.0	119.0	S&G
119.0	124.0	FINE SAND
124.0	149.0	S&G
149.0	0.0	CLAY

Comments

MC, PLOTTED ON BASE MAP, WELL #2

Reference **Driving Direction to Well Date Completed** Number

72807 200' E OF OLIVE ST, 50' S OF SAMPLE ST 10/8/1980

Owner-Contractor Name Address **Telephone** CITY OF SOUTH BEND Not available Not available Owner Driller LAYNE NORTHERN Not available Not available

Operator DON SNYDER License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth: 40.0** Water Quality: Not available

available

Length: 33.0 Material: Not available Diameter: 4.5 Casing Material: Not available Diameter: 4.0 Screen Length: 5.0

Slot Size: 0.025

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NW of the NW of the NE of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 716.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aguifer Elevation: 676.0 UTM Northing: 4612552

UTM Easting: 559723

Well Log

Тор	Bottom	Formation
0.0	1.0	FILL
1.0	3.0	BR CLAY
3.0	13.0	FN SILTY SAND
13.0	27.0	MEDIUM TO CRS GRAVEL
27.0	28.0	BR CLAY
28.0	33.0	MEDIUM GRAVEL
33.0	40.0	FN BR SAND

Comments MONITOR WELL MW 11

Reference **Driving Direction to Well Date Completed** Number

36'W OF CL OF S WELLINGTON ST 96' S OF CL OF W SAMPLE ST 72809 7/27/1960

Owner-Contractor Name Address **Telephone** ROACH APPLETON SOUTH BEND IN Not available Owner Driller LAYNE NORTHERN Not available Not available

Operator A EALGER License Not available

Construction Details

Well Use: Test **Drilling Method:** Cable Tool Pump Type: Not available

Pump Setting Depth: Not **Depth:** 154.0 Water Quality: Not available

available

Material: Not available Diameter: Not available Casing Length: Not available Diameter: Not available Screen **Length:** Not available Material: Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> **Drawdown:** Not available Static Water Level: 16.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the NW of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located On: Not available Field Located By: USGS

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available **Ft W of EL:** 2,200.0 Ft N of SL: Not available

Ft E of WL: Not available Ft S of NL: 50.0

Ground Elevation: 711.0 **Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aguifer Elevation: 557.0

UTM Easting: 558200 **UTM Northing:** 4612400

Well Log

Тор	Bottom	Formation
0.0	4.0	TOP SOIL
4.0	12.0	SAND
12.0	23.0	DIRTY S AND GRAV
23.0	45.0	SAND AND GRAV - MORE GRAV
45.0	56.0	SAND
56.0	58.0	SAND AND GRAV
58.0	71.0	SANDY CLAY
71.0	97.0	MUDDY SAND
97.0	104.0	MUDDY SAND AND GRAV
104.0	123.0	MUDDY SAND
123.0	154.0	S AND GRAV - CLEAN

Comments

TEST WELL 60 A

Reference **Driving Direction to Well Date Completed** Number

N90 E4023 APPROXIMATELY 80' NORTH OF CALVERT ST 72810 5/24/1983

Owner-Contractor Name Address **Telephone** NEW ENERGY CO OF INDIANA Owner SOUTH BEND IN Not available Driller PEERLESS MIDWEST INC P O BOX 26 GRANGER IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Drilling Method: Reverse Rotary Pump Type: Not available Well **Use:** Industry

> Pump Setting Depth: Not **Depth: 92.0** Water Quality: Not available available

Length: 47.0 Material: Not available Diameter: 16.0

Casing Material: Not available Diameter: 16.0 Screen Length: 30.0

Slot Size: .055

Well Capacity **Test Rate:** 2,080.0 gpm for 8.0 Bail Test Rate: Not available Type of Test: Not available Test

> Drawdown: 26.0 ft. Static Water Level: 19.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SW of the NE of the SE of Section 16

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available **Ft N of SL:** 1,450.0 Ft E of WL: 4,023.0 Ft S of NL: Not available

Ground Elevation: 717.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aguifer Elevation: 640.0 **UTM Northing:** 4611384 UTM Easting: 558505

Well Log

Тор	Bottom	Formation
0.0	4.0	FILL SAND
4.0	38.0	MEDIUM SAND & GRAVEL
38.0	52.0	CRS SAND & GRAVEL
52.0	77.0	CRS SAND & GRAVEL W/BOULDERS
77.0	0.0	SANDY CLAY WITH SILT

Comments MC, WELL #3

Date Completed

Record of Water Well Indiana Department of Natural Resources

Reference
Number
Driving Direction to Well

72813 Not available 2/16/1949

2010 1101 (474)14010

Owner-Contractor NameAddressTelephoneOwnerCITY OF SOUTH BENDOLIVER PARK STATIONNot availableDrillerLAYNE NORTHERNMISHAWAKANot available

Operator CHAS KIMBLE License Not available

Construction Details

Well Use: Public Supply Drilling Method: Not available Pump Type: Not available

Depth: 166.5 **Pump Setting Depth:** Not available **Water Quality:** Not available

Casing Length: 120.0 Material: Not available Diameter: 38.0

Screen Length: 40.0 Material: BRONZE Diameter: 26.0

Slot Size: 5

Well Capacity
Test
Type of Test: Pumping
Test Rate: 2,250.0 gpm
Bail Test Rate: Not available

Drawdown: Not available Static Water Level: 18.5 ft. Bailer Drawdown: Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well
Abandonment
Sealing Material: Not available
Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SW of the NE of the NW of Section 15

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available

Ft W of EL: Not available

Ft E of WL: Not available

Ft S of NL: Not available

Ground Elevation: 715.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available

UTM Easting: Not available

Aquifer Elevation: 550.0

UTM Northing: Not available

Well Log Comments

Reference **Driving Direction to Well Date Completed** Number

72814 8' E OF NEW COADING DOCK 60'S OF SAMPLE ST Not available

Owner-Contractor Name Address **Telephone** Owner **ROACH APPLETON** SOUTH BEND IN Not available Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 118.0 Water Quality: Not available available

Length: 119.0 Material: Not available Diameter: 26.0 Casing

Material: Not available Diameter: 13.5 Screen Length: 30.0

Slot Size: 0.080

Well Capacity

Type of Test: Not available **Test Rate:** 1,205.0 gpm Bail Test Rate: Not available Test

Drawdown: Not available Static Water Level: 14.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the NW of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: USGS Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available

Ft W of EL: 2,200.0 Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: 50.0 **Ground Elevation: 710.0**

Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation:** 592.0 UTM Easting: 558200 **UTM Northing:** 4612550

Well Log Comments PLOTTED ON **BASE MAP**

Reference **Driving Direction to Well Date Completed** Number

72818 Not available 4/7/1947

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND **OLIVER PARK STATION** Not available Driller LAYNE NORTHERN MISHAWAKA Not available

Operator CHARLES KIMBLE License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available

Pump Setting Depth: Not Depth: Not available Water Quality: Not available available

Length: 130.0 Material: Not available Diameter: 26.0 Casing

Material: Not available Diameter: 26.0 Screen Length: 40.0 Slot Size: 171

Well Capacity

Type of Test: Pumping **Test Rate:** 2,300.0 gpm Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 18.7 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well Sealing Material: Not available **Depth:** From (not available) To (not available)

Abandonment Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: SE of the NE of the NW of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation: 715.0** Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation:** 546.0 **UTM Easting:** Not available **UTM Northing:** Not available

Well Log Comments

Reference **Driving Direction to Well Date Completed** Number

15' W. OF E. LINE OF LOMBARBY DR., 60' S. OF ORCHARD AVE., FROM USGS 72820

11/4/1944 BULLETIN #3 SJ T-T2 NOT IN USGS BULLETIN #15.

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE-NORTHERN COMPANY, INC. Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available Pump Setting Depth: Not

Depth: 166.0 Water Quality: Not available available

Material: Not available Length: Not available Diameter: Not available Casing Screen Length: Not available Material: Not available **Diameter:** Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: 10.0 gpm Bail Test Rate: Not available Test

Drawdown: Not available Static Water Level: 19.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NW of the SW of the NW of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 715.0 Depth of Bedrock: 161.0 Aquifer Elevation: Not available **Bedrock Elevation:** 554.0

UTM Easting: Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	4.0	TOP SOIL & OVERBURDERN
4.0	37.0	SANDY GRAV
37.0	55.0	SANDY CLAY, SOME GRAV
55.0	85.0	GRAVELLY, CLAY
85.0	128.0	GRAV W/ CLAY
128.0	161.0	CRS S&G
161.0	166.0	BEDROCK, UNKNOWN TYPE

Comments PLOTTED ON BEDROCK MAP.

Reference **Driving Direction to Well Date Completed** Number

72822 DUNHAM STREET AND CAMDEN STREET, FROM USGS BULLETIN #3 SJ 6-9A 1/1/1921

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND Not available Not available Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Drilling Method: Not available Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 182.0 Water Quality: Not available

available

Length: Not available Material: Not available Diameter: Not available Casing Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity

Bail Test Rate: Not available Test Rate: Not available Type of Test: Not available Test

> Drawdown: Not available Static Water Level: 5.4 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the SW of the SW of Section 10 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation: 715.0** Depth of Bedrock: 180.0 **Bedrock Elevation:** 535.0 **Aguifer Elevation:** Not available

UTM Easting: Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	8.0	TOP SOIL
3.0	7.0	FINE SILTY SAND
7.0	22.0	MD SAND TO CRS GRAV
8.0	25.0	SAND AND GRAVEL
22.0	30.0	BLK CRS SAND AND GRAV
25.0	32.0	HARDPAN
30.0	38.0	CRS BR SAND AND GRAV
32.0	44.0	SAND AND GRAVEL
44.0	66.0	SAND, GRAVEL, AND BOULDERS
66.0	77.0	SAND, GRAVEL, AND SOME BOULDER
77.0	85.0	GRAVEL
85.0	105.0	FINE SAND WITH SOME GRAV
105.0	124.0	FINE SAND
124.0	127.0	HARDPAN

127.0	155.0	COARSE SAND
155.0	170.0	FINE SAND
170.0	180.0	FINER SAND - CLAY
180.0	182.0	LOWER MISS. SHALE

Comments

PLOTTED ON BEDROCK MAP/ WELL LOG FOR SJ 6-8A CLOSE AND SIMILAR/ NO LOG FOR SJ 6-9A

Reference **Driving Direction to Well Date Completed** Number

72823 Not available 10/24/1944

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND **OLIVER PUMPING STATION** Not available Driller LAYNE NORTHERN MISHAWAKA IN Not available

Operator CALVIN REYNOLDS License Not available

Construction Details

Well Pump Type: Not available **Use:** Not available **Drilling Method:** Not available

Pump Setting Depth: Not **Depth:** 151.5 Water Quality: Not available available

Length: 147.5 Material: STEEL Diameter: 3.0 Casing

Material: Not available Diameter: Not available Screen Length: 6.0

Slot Size: Not available

Well Capacity

Bail Test Rate: Not available Type of Test: Pumping Test Rate: 8.5 gpm Test

> Drawdown: Not available Static Water Level: 20.5 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aguifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log Comments

Reference **Driving Direction to Well Date Completed** Number

72824 20' N OF PERMANENT WELL #6 N396-E1460 8/18/1983

Owner-Contractor Name Address **Telephone** NEW ENERGY CO OF INDIANA SOUTH BEND, IN Owner Not available Driller PEERLESS-MIDWEST. INC POB 26 GRANGER, IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Well **Drilling Method:** Cable Tool Pump Type: Not available **Use:** Industry

Pump Setting Depth: Not **Depth:** 114.0 Water Quality: Not available

available Material: Not available Diameter: Not available

Length: Not available Casing Material: Not available Diameter: Not available Screen **Length:** Not available

Slot Size: Not available

Well Capacity

Bail Test Rate: Not available Test Rate: Not available Type of Test: Not available Test

> Drawdown: Not available Static Water Level: 28.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: SW of the NE of the NW of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: JCA Field Located On: 6/1/1985

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: 850.0 Ft S of NL: 600.0

Ground Elevation: 713.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation:** 599.0 UTM Northing: 4612375 UTM Easting: 559300

Well Log

Тор	Bottom	Formation
0.0	4.0	FILL SAND
4.0	45.0	MD S&G
45.0	51.0	FINE TO MD SAND SOME GRAV
51.0	62.0	MD S&G
62.0	71.0	CLAY W/GRAVEL
71.0	86.0	FINE SAND
86.0	106.0	MD S&G
106.0	114.0	CLAY W/GRAV & BOULDERS

Comments

MAILBOX VERIFIED LOCATED 20' N OF WELL #6 TEST WELL #83-E STATIC DEPRESSED BY DEWATERING OPERATION. NORMAL STATIC IS APPROXIMATELY 5' TYPE OF WELL-TEST WELL

Reference **Driving Direction to Well Date Completed** Number

72825 Not available 1/1/1964

Address Owner-Contractor Name Telephone SOUTH BEND, IN Owner TORRINGTON Not available Driller LAYNE-NORTHERN COMPANY, INC. MISHAWAKA, IN Not available

Operator SAHOEN License Not available

Construction Details

Well Drilling Method: Not available Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 105.0 Water Quality: Not available

available

Length: 84.5 Material: Not available Diameter: 12.0 Casing Material: Not available Diameter: 1.0 Screen Length: 20.0

Slot Size: .010

Well Capacity

Type of Test: Not available Test Rate: 320.0 gpm for 1.0 hrs. Bail Test Rate: Not available Test

Drawdown: 34.5 ft. Static Water Level: 15.5 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH

Range: 2E

Topo Map: SOUTH BEND WEST

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available

Location Accepted w/o Verification By: Not

available

Subdivision Name: TORRINGTON

Ft W of EL: Not available Ft E of WL: Not available

Ground Elevation: Not available Bedrock Elevation: Not available **UTM Easting:** Not available

available Lot Number: Not available

Township: 37N Section: 16

Grant: Not available

Ft N of SL: Not available Ft S of NL: Not available

Depth of Bedrock: Not available **Aguifer Elevation:** Not available **UTM Northing:** Not available

Courthouse Location On: Not available

Location Accepted w/o Verification On: Not

Well Log Comments

Reference Driving Direction to Well Date Completed

72827 700' E OF OLIVE ST 550' S OF DAVIS ST 11/6/1980

Owner-Contractor NameAddressTelephoneOwnerCITY OF SOUTH BENDNot availableNot availableDrillerLAYNE NORTHERNNot availableNot available

Operator DON SNYDER License Not available

Construction Details

Well Use: Not available Drilling Method: Rotary Pump Type: Not available

Depth: 50.0 Pump Setting Depth: Not water Quality: Not available

available

Casing Length: 29.0 Material: Not available Diameter: 4.0 Screen Length: 5.0 Material: Not available Diameter: 4.0

Slot Size: .025

Well Capacity

Test Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available

Drawdown: Not available **Static Water Level:** Not available **Bailer Drawdown:** Not available

Grouting Information

Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well

Abandonment Sealing Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH

County: ST. JOSEPH

Range: 2E

Township: 37N

Section: NW of the NE of Section 15

Topo Man: SOLITH BEND WEST Crant: Not available

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available

available

Subdivision Name:Not availableFt W of EL:Not availableFt E of WL:Not availableFt S of NL:Not available

Ground Elevation: Not available

Bedrock Elevation: Not available

UTM Easting: Not available

UTM Northing: Not available

Well Log

Тор	Bottom	Formation
0.0	3.0	TOP SOIL
3.0	6.0	GRAY SILTY SAND
6.0	8.0	FINE SAND
8.0	13.0	MD SAND TO CRS GRAV
13.0	17.0	FINE SAND
17.0	50.0	CRS SAND AND GRAV

Comments
MONITOR WELL.

MW 14.

Reference **Driving Direction to Well Date Completed** Number

FROM USGS BULLETIN #3 SJ 4-T3. OLIVER PARK STATION, 400' S. OF OLIVE 72828

ST. & 200' N. OF S. PROPERTY LINE.

9/6/1946

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE-NORTHERN COMPANY, INC. Not available Not available

CHARLES KIMBLE License Not available Operator

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available Pump Setting Depth: Not

Depth: 193.0 Water Quality: Not available available

Length: Not available Material: Not available Diameter: 6.0 Casing

Screen **Length:** Not available Material: Not available Diameter: Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 18.8 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Range: 2E Section: SE of the NE of the NW of Section 15

Grant: Not available Topo Map: SOUTH BEND WEST

Field Located On: Not available Field Located By: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 717.0 Depth of Bedrock: 191.0 **Bedrock Elevation: 526.0** Aquifer Elevation: Not available

UTM Easting: 559650 **UTM Northing:** 4612300

Well Log

Тор	Bottom	Formation
0.0	7.0	FILL
7.0	16.0	CLAY
16.0	47.0	GRAV & CRS SAND
47.0	80.0	MUCK
80.0	129.0	SAND & RUSTY GRAV
129.0	143.0	GRAV & CLEAN SAND
143.0	170.0	S&G
170.0	191.0	SAND & RUSTY GRAV
191 0	193.0	LOWER MISSISSIPPIAN SHALE

Comments PLOTTED ON BEDROCK MAP. TEST HOLE #3.

Reference **Driving Direction to Well Date Completed** Number

15' SW OF PERMANENT WELL #3 N90-E4020 72829 5/12/1983

Owner-Contractor Name Address **Telephone** NEW ENERGY CO OF INDIANA Owner SOUTH BEND. IN Not available Driller PEERLESS MIDWEST. INC POB 26 GRANGER, IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Well **Drilling Method:** Cable Tool Pump Type: Not available **Use:** Industry

Pump Setting Depth: Not **Depth:** 180.0 Water Quality: Not available available

Length: Not available Material: Not available Diameter: Not available Casing

Material: Not available Diameter: Not available Screen **Length:** Not available

Slot Size: Not available

Well Capacity

Test Rate: Not available Bail Test Rate: Not available Type of Test: Not available Test

Drawdown: Not available Static Water Level: 19.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SW of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available Field Located By: JCA Field Located On: 6/1/1985

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aguifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	4.0	FILL SAND
4.0	38.0	MD S&G
38.0	52.0	COARSE S&G
52.0	79.0	CRS S&G W/BOULDERS
79.0	89.0	SILTY CLAY W/SAND
89.0	161.0	SILTY SAND
161.0	180.0	VERY FINE SAND DIRTY
180.0	180.0	STOPPED IN VERY FINE DIRTY SAN

Comments

MAILBOX VERIFIED LOCATED 5' SW OF PW#3 TEST WELL #83-D TYPE OF WELL-TEST WELL STATIC DEPRESSED BY SITE DEWATERING SYSTEM. NORMAL STATIC APPROXIMATELY

Reference **Driving Direction to Well Date Completed** Number

72830 Not available 1/12/1946

Owner-Contractor Name Address **Telephone** SOUTH BEND, IN Owner **GRAND TRUNK RAILROAD** Not available Driller LAYNE-NORTHERN COMPANY, INC. MISHAWAKA, IN Not available

Operator CALVIN REYNOLDS License Not available

Construction Details

Well Drilling Method: Not available Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth: 174.0** Water Quality: Not available

available

Length: 145.0 Material: Not available Diameter: 34.0 Casing Diameter: 18.0

Material: Not available Screen Length: 20.0 Slot Size: 5

Well Capacity

Type of Test: Not available Test Rate: 830.0 gpm Bail Test Rate: Not available Test

> Drawdown: 13.0 ft. Static Water Level: 12.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log Comments

None

Reference
Number
72831

SOUTH BEND WATERWORKS; OLIVER WELL FIELD; WELL #4

Date Completed
Not available

Owner-Contractor Name

Address
PO BOX 1714 N 224 MAIN ST SOUTH

Owner SOUTH BEND WATER WORKS BEND IN

Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available

Depth: 192.0 Pump Setting Depth: Not available Water Quality: Not available

Casing Length: Not available Material: Not available Diameter: 26.0

Screen Length: Not available Material: Not available Diameter: Not available

Slot Size: Not available

Well Capacity
Test Type of Test: Not available
Test Rate: Not available
Bail Test Rate: Not available

Drawdown: Not available **Static Water Level:** Not available **Bailer Drawdown:** Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well

Abandanment

Sealing Material: Not available

Depth: From (not available) To (not available)

Abandonment Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of the NE of the NW of Section 15

Topo Map: SOUTH BEND WEST **Field Located By:** DRILLER **Grant:** Not available **Field Located On:** 1/2/1985

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available available

Subdivision Name:Not availableLot Number:Not availableFt W of EL:Not availableFt N of SL:Not available

Ft E of WL: 2,550.0 Ft S of NL: 325.0

Ground Elevation: 715.0 Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: 523.0

Bedrock Elevation: Not available **Aquifer Elevation:** 523.0 **UTM Easting:** 559650 **UTM Northing:** 4612500

Well Log

TopBottomFormation0.00.0NO DEPTH INFO

Comments

None

Reference **Driving Direction to Well Date Completed** Number

72834 18' S OF PROPOSED PERMANENT WELL #3 N85-E4218 5/5/1983

Owner-Contractor Name Address Telephone NEW ENERGY CO OF INDIANA SOUTH BEND, IN Not available Owner Driller PEERLESS MIDWEST. INC POB 26 GRANGER, IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Well **Use:** Industry **Drilling Method:** Cable Tool Pump Type: Not available

Pump Setting Depth: Not **Depth:** 193.0 Water Quality: Not available

available

Material: Not available Diameter: Not available Casing Length: Not available Diameter: Not available Screen **Length:** Not available Material: Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

Drawdown: Not available Static Water Level: 24.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: SW of the NE of the NW of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: JCA Field Located On: 6/1/1985

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Lot Number: Not available Subdivision Name: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: 1,350.0 Ft S of NL: 1,150.0 **Ground Elevation: 713.0 Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aguifer Elevation: 520.0

UTM Easting: 559300 **UTM Northing:** 4612260

Well Log

Тор	Bottom	Formation
0.0	5.0	COMPACTED FILL
5.0	46.0	MD S&G
46.0	85.0	FINE SILTY S&G
85.0	90.0	CLAY
90.0	156.0	SILTY SANDY CLAY
156.0	157.0	SILT
157.0	160.0	VERY FINE SAND W/CLAY
160.0	191.0	VERY FINE SAND CLEAN
191.0	193.0	CLAY

Comments MAILBOX VERIFIED LOCATED 18'S OF T WELL #3 TEST WELL #83-C

Reference **Driving Direction to Well Date Completed** Number

72835 60' S. OF SAMPLE ST., 8' E. OF NEW LOADING DOCK. 9/9/1960

Owner-Contractor Name Address **Telephone** SOUTH BEND, IN Owner **ROACH APPLETON** Not available Driller LAYNE-NORTHERN COMPANY, INC. MISHAWAKA, IN Not available

C. KIMBLE Operator License Not available

Construction Details

Well Drilling Method: Not available Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 148.0 Water Quality: Not available

available

Length: 119.0 Material: Not available Diameter: 26.0 Casing Material: Not available Diameter: 13.5 Screen Length: 30.0

Slot Size: .080

Well Capacity

Type of Test: Not available **Test Rate:** 1,205.0 gpm Bail Test Rate: Not available Test

> Drawdown: 12.6 ft. Static Water Level: 14.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log Comments FIRE WELL.

Reference **Driving Direction to Well Date Completed** Number

72836 SOUTH BEND OLIVER FIELD 3 Not available

Owner-Contractor Name Address **Telephone** CITY OF SOUTH BEND Not available Not available Owner Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Drilling Method: Not available Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth: 155.0** Water Quality: Not available available

Length: Not available Material: Not available Diameter: 26.0

Casing Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity

Bail Test Rate: Not available Type of Test: Pumping **Test Rate:** 2,430.0 gpm Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH

Township: 37N Range: 2E Section: 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 715.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aguifer Elevation: 560.0 **UTM Northing:** 4612275 UTM Easting: 559300

Well Log

Тор	Bottom	Formation
0.0	155.0	BLANK

Comments

MC

Reference **Driving Direction to Well Date Completed** Number

72837 150' W OF OLIVE ST 100' N OF TUCKER DR 11/6/1980

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE NORTHERN Not available Not available

Operator DON SNYDER License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 38.0 Water Quality: Not available

available

Length: 34.0 Material: Not available Diameter: 4.0 Casing Material: Not available Diameter: 4.0 Screen Length: 5.0

Slot Size: .025

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Range: 2E Section: SE of the NE of the NW of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aguifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	2.0	TOP SOIL
2.0	5.0	BR SANDY CLAY
5.0	7.0	GRAY CLAY
7.0	13.0	GRAY SILTY CLAY
13.0	20.0	FINE SAND
20.0	25.0	CRS SAND AND GRAV
25.0	26.0	BR CLAY
26.0	38.0	CRS SAND AND GRAV

Comments MONITOR WELL MW 13.

Reference Driving Direction to Well Date Completed

72838 800' W OF OLIVE ST 30' S OF R R 3/11/1966

Owner-Contractor NameAddressTelephoneOwnerNot availableNot availableNot availableDrillerCITY WATER DEPARTMENTSOUTH BENDNot available

Operator PAUL WYATT License Not available

Construction Details

Well Use: Public Supply Drilling Method: Not available Pump Type: Not available

Depth: 158.0 **Pump Setting Depth:** Not available **Water Quality:** Not available

Casing Length: 112.0 Material: Not available Diameter: 38.0

Screen Length: 40.0 Material: Not available Diameter: 26.0

Slot Size: 0.105

Well Capacity
Test
Type of Test: Not available
Test Rate: 1,140.0 gpm
Bail Test Rate: Not available

Drawdown: Not available **Static Water Level:** 19.5 ft. **Bailer Drawdown:** Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well
Abandonment
Sealing Material: Not available
Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NW of the NE of the NW of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available **Field Located By:** DM **Field Located On:** 8/1/1979

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available Location Accepted w/o verification By: Not Location Accepted w/o verification On: N

Subdivision Name: Not available

Ft W of EL: Not available

Ft N of SL: Not available

Ft E of WL: 100.0 Ft S of NL: 1,500.0 Ground Elevation: 715.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aquifer Elevation: 557.0

UTM Easting: 559450 UTM Northing: 4612430

Well Log Comments

MC

Reference **Driving Direction to Well Date Completed** Number

72839 46' S OF E W CENTERLINE BETWEEN PROPOSED PERMANENT WELLS #2 4/25/1983

Owner-Contractor Name Address **Telephone** NEW ENERGY CO OF INDIANA Owner Not available Not available Driller PEERLESS MIDWEST. INC POB 26 GRANGER, IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Well **Drilling Method:** Cable Tool Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 192.0 Water Quality: Not available available

Length: 124.7 Material: Not available Diameter: 8.0 Casing

Length: 10.0 Material: Not available Diameter: 8.0 Screen

Slot Size: Not available

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available)

Information

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: SW of the NE of the NW of Section 15 Range: 2E Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: JCA Field Located On: 6/1/1985

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: 1,900.0 Ft S of NL: 850.0 **Ground Elevation: 716.0** Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation:** 524.0

UTM Easting: 559454 **UTM Northing:** 4612322

Well Log

Тор	Bottom	Formation	
0.0	40.0	FINE TO MD SAND W/GRAV	
40.0	65.0	MD TO FINE SAND	
65.0	80.0	SILTY SAND CLAY SOME GRAV	
80.0	90.0	FINE MUDDY SAND	
90.0	101.0	FINE SAND W/GRAVEL	
101.0	104.0	FINE GRAV & SAND	
104.0	111.0	FINE SAND W/GRAV	
111.0	122.0	FINE TO MD SAND GRAV TRACE	
122.0	132.0	MD TO FINE S&G	
132.0	134.0	FINE TO MD SAND W/GRAV	
134.0	140.0	CLAY S&G	
140.0	160.0	SILT & CLAY	
160.0	192.0	SILTY FINE SAND	

MAILBOX VERIFIED LOCATED 40' N OF WELL #2 TEST WELL #83-B TYPE OF WELL-TEST WELL

Reference **Driving Direction to Well Date Completed** Number

1800' W OF OLIVE ST, 200'S OF TUCKER DR 72841 12/9/1982

Owner-Contractor Name Address **Telephone** STEEL WAREHOUSE CO SOUTH BEND IN Not available Owner Driller LAYNE NORTHERN MISHAWAKA Not available

Operator DON SNYDER License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 58.0 Water Quality: Not available

available Length: 44.0 Material: Not available Diameter: 8.6

Casing Material: Not available Diameter: 7.5 Screen Length: 5.0

Slot Size: 0.040

Well Capacity

Type of Test: Not available Test Rate: 451.0 gpm Bail Test Rate: Not available Test

> Drawdown: 4.0 ft. Static Water Level: 13.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of the SW of the NW of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: BRUNS **Location Accepted w/o Verification On: 3/22/1983**

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: 800.0 Ft S of NL: 1,800.0 **Ground Elevation: 725.0** Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation:** 667.0

UTM Easting: 559109 **UTM Northing:** 4612026

Well Log

Тор	Bottom	Formation
0.0	1.0	SLAG FILL
1.0	8.0	BR SANDY CLAY
8.0	58.0	BR C SAND AND GRAV

Comments MC, LOCATION FROM DRILLER'S DESCRIPTION

Reference **Driving Direction to Well Date Completed** Number

1800' W OF OLIVE ST 200' S OF TUCKER DR 72843 11/29/1982

Owner-Contractor Name Address **Telephone** STEEL WAREHOUSE CO SOUTH BEND IN Not available Owner Driller LAYNE NORTHERN Not available Not available

Operator DON SNYDER License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

Pump Setting Depth: Not **Depth: 173.0** Water Quality: Not available

available

Length: Not available Material: Not available Diameter: Not available Casing Material: Not available Diameter: Not available Screen **Length:** Not available

Slot Size: Not available

Well Capacity

Test Rate: Not available Bail Test Rate: Not available Type of Test: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of the SW of the NW of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: BRUNS **Location Accepted w/o Verification On: 3/22/1983**

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: 800.0 Ft S of NL: 1,800.0

Ground Elevation: 725.0 Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** 602.0

UTM Easting: 559151 **UTM Northing:** 4612071

Well Log

Тор	Bottom	Formation
0.0	1.0	SLAG FILL
1.0	8.0	BR SANDY CLAY
8.0	58.0	BR CRS SAND AND GRAV
58.0	62.0	FINE SAND
62.0	66.0	BR CLAY
66.0	80.0	CEMENTED SAND
80.0	91.0	FINE SAND
91.0	170.0	CEMENTED SAND W/ CLAY STRIPS
170.0	173.0	BLUE CLAY

PLOTTED ON BASE MAP. WELL 2. LOCATION FROM DRILLERS LOCATION REMARKS PERM WELL NUMBER 1 AT THIS SITE.

Reference **Driving Direction to Well Date Completed** Number

15 FT +- SW OF PROPOSED PERMANENT WELL #4 480 FT N OF CALVERT ST 4/14/1983 72844

Owner-Contractor Name Address Telephone **NEW ENERGY CO OF IN** SOUTH BEND Not available Owner Driller PEERLESS MIDWEST INC 51255 BITTERSWEET RD GRANGER IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Well Use: Test **Drilling Method:** Cable Tool Pump Type: Not available

> Pump Setting Depth: Not Depth: Not available Water Quality: Not available

available

Length: 60.0 Material: Not available Diameter: Not available Casing

Material: Not available Diameter: 8.0 Screen **Length: 15.0**

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: 420.0 gpm Bail Test Rate: Not available Test

> **Drawdown:** Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information

Material: Not available **Depth:** From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH

Township: 37N

Section: SE of the NW of the SE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located On: Not available Field Located By: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available

available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 713.0 **Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aguifer Elevation: 638.0 UTM Easting: 558340 **UTM Northing:** 4611475

Well Log

Тор	Bottom	Formation	
0.0	20.0	S&G	
20.0	46.0	S&G	
46.0	47.0	CLAY	
47.0	55.0	FN MED SAND	
55.0	60.0	FN TO MED SAND W/CRS GRAVEL	
60.0	70.0	MD SAND & GRAVEL	
70.0	75.0	MED SAND & GRAVEL	
75.0	80.0	CRS TO MED SAND & GRAVEL	
80.0	112.0	FINE SAND	
112.0	117.0	MED CRS S&G	
117.0	133.0	SILTY CLAY	
133.0	187.0	S&G AND SILT W/CLAY	

Reference **Driving Direction to Well Date Completed** Number

OLIVE ST., S. OF SAUPLI ST, FROM USGS BULLETIN #3, SJ 6-24A. 72846 1/1/1921

Owner-Contractor Name Address **Telephone** CITY OF SOUTH BEND Not available Not available Owner Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Pump Type: Not available **Use:** Not available **Drilling Method:** Not available

> Pump Setting Depth: Not **Depth:** 170.0 Water Quality: Not available available

Length: Not available Material: Not available Diameter: Not available Casing

Material: Not available Diameter: Not available Screen **Length:** Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 12.2 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NW of the NW of the NE of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 719.0 Depth of Bedrock: 170.0 **Bedrock Elevation:** 549.0 Aguifer Elevation: Not available

UTM Northing: Not available **UTM Easting:** Not available

Well Log

Тор	Bottom	Formation
0.0	10.0	TOP SOIL
10.0	40.0	FN GRAV W/ SOME SAND
40.0	50.0	CLAY W/ SMALL AMTS GRAV
50.0	100.0	VERY CRS S&G
100.0	113.0	VER CRS GRAV
113.0	138.0	VERY CRS S&G
138.0	159.0	CRS SAND W/ SOME PEBBLES
159.0	170.0	?
170.0	0.0	BEDROCK

Comments PLOTTED ON BEDROCK MAP.

Reference **Driving Direction to Well Date Completed** Number

72848 1300' W OF OLIVE ST 350' S OF TUCKER DR 11/22/1982

Owner-Contractor Name Address **Telephone** Owner STEEL WAREHOUSE SOUTH BEND IN Not available Driller LAYNE NORTHERN Not available Not available

Operator DON SNYDER License Not available

Construction Details

Well Use: Other **Drilling Method:** Rotary Pump Type: Not available

> Pump Setting Depth: Not **Depth:** 188.0 Water Quality: Not available

available

Length: Not available Material: Not available Diameter: Not available Casing Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity

Test Rate: Not available Bail Test Rate: Not available Type of Test: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the SE of the NW of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: BRUNS Location Accepted w/o Verification On: 3/22/1983

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: 1,300.0 Ft S of NL: 1,900.0 **Ground Elevation: 725.0** Depth of Bedrock: 178.0 **Bedrock Elevation: 547.0 Aguifer Elevation:** Not available

UTM Easting: 559262 **UTM Northing:** 4612011

Well Log

Тор	Bottom	Formation
0.0	3.0	FILL
3.0	10.0	BR SANDY CLAY
10.0	18.0	CRS SAND AND GRAV
18.0	19.0	GRAY CLAY
19.0	26.0	CRS SAND AND GRAV
26.0	28.0	GRAY CLAY
28.0	32.0	GREEN CLAY
32.0	47.0	CRS SAND AND GRAV
47.0	50.0	GRAY CLAY
50.0	84.0	CEMENTED SAND
84.0	86.0	GRAY CLAY
86.0	96.0	CEMENTED SAND W/ CLAY STRIPS
96.0	178.0	SOFT GRAY CLAY
178.0	188.0	BLUE SHALE

PLOTTED ON BASE MAP. PLOTTED ON BEDROCK MAP. TEST NUMBER 1. LOCATION FROM DRILLERS DESCRIPTION.

Reference **Driving Direction to Well Date Completed** Number

500' E OF WELL #1 785' N OF CALVERT ST & 650' W OF E LINE OF SECTION 162/21/1981 72849

Owner-Contractor Name Address **Telephone** NEW ENERGY CO OF INDIANA SOUTH BEND, IN Not available Owner Driller PEERLESS MIDWEST. INC GRANGER, IN Not available

Operator JACK BOWLES License Not available

Construction Details

Well **Drilling Method:** Jet **Use:** Industry Pump Type: Not available

> Pump Setting Depth: Not **Depth:** 182.0 Water Quality: Not available

available

Length: 178.0 Material: Not available Diameter: 2.0 Casing

Material: Not available Diameter: 1.3 Screen Length: 4.0 Slot Size: Not available

Well Capacity Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> **Drawdown:** Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NW of the NE of the SE of Section 16

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available

Ft W of EL: 650.0 **Ft N of SL:** 2,200.0 Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation: 715.0 Depth of Bedrock:** Not available

Bedrock Elevation: Not available

Aguifer Elevation: 515.0 **UTM Northing:** 4611603 UTM Easting: 558691

Well Log

Тор	Bottom	Formation
0.0	4.0	MUCK
4.0	25.0	BR SAND
25.0	70.0	MD S&G
70.0	91.0	MD SAND
91.0	102.0	CLAY W/G&S
102.0	135.0	FINE SAND TRACE OF CLAY
135.0	162.0	BLANK
162.0	175.0	FINE SAND TRACE OF CLAY
175.0	182.0	MD S&G
182.0	200.0	S&G W/CLAY

MC LOCATION FROM BOB WILLIAMS PEERLESS MIDWEST PLOTTED ON BASE MAP TEST WELL #81-E TYPE OF WELL-TEST WELL

Reference **Driving Direction to Well Date Completed** Number

OLIVE ST., MIDWAY BETWEEN INDIANA AVE. AND SAMPLE ST., FROM USGS 72851

BULLETIN #3, SJ G-5A.

1/1/1921

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available Pump Setting Depth: Not

Depth: 178.0 Water Quality: Not available available

Length: Not available Material: Not available Casing Diameter: Not available Screen Length: Not available Material: Not available **Diameter:** Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 12.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NW of the SW of the NE of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 716.0 Depth of Bedrock: 178.0 Aquifer Elevation: Not available **Bedrock Elevation:** 538.0

UTM Easting: Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	20.0	TOP SOIL
20.0	43.0	FN SAND
43.0	50.0	SHALE ?
50.0	52.0	HEAVY GRAV & BOULDERS
52.0	63.0	SHALE
63.0	90.0	CLAY
90.0	100.0	FN SAND
100.0	110.0	CRS SAND W/ SOME SMALL STONES
110.0	120.0	SAND & FN GRAV
120.0	133.0	VERY CRS SAND
133.0	143.0	CRS SAND & FN GRAV
143.0	153.0	VERY CRS S&G
153.0	178.0	MD SAND

| 178.0 | 0.0 | BEDROCK-UNKNOWN TYPE

Comments PLOTTED ON BEDROCK MAP.

Reference Driving Direction to Well Date Completed

72853 NEXT TO ABOVE GROUND QUECH OIL TANKS ON WEST SIDE OF PLANT 8/13/1984

(MAP ATTACHED)

 Owner-Contractor Name
 Address
 Telephone

 Owner
 TORRINGTON COMPANY
 SOUTH BEND IN
 Not available

Driller PEERLESS MIDWEST INC 51255 BITTERSWEET RD P O BOX 26 Not available

SS MIDWEST INC GRANGER IN

Operator JOHN BLATZ License Not available

Construction Details

Well Use: Industry Drilling Method: Cable Tool Pump Type: Not available

Depth: 24.0 Pump Setting Depth: Not Water Quality: Not available

available vv ng **Length:** 19.0 **Material:** Not available **D**i

Casing Length: 19.0 Material: Not available Diameter: 4.0 Screen Length: 5.0 Material: Not available Diameter: 4.0

Slot Size: .010

Well Capacity

Test Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available

Drawdown: Not available **Static Water Level:** Not available **Bailer Drawdown:** Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available **Number of Bags Used:** Not available

Well
Abandonment
Sealing Material: Not available
Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SE of the NW of the NE of Section 16

Topo Map: SOUTH BEND WEST

Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name:Not availableFt W of EL:Not availableFt E of WL:Not availableFt S of NL:Not available

Ground Elevation: Not available

Bedrock Elevation: Not available

UTM Easting: Not available

UTM Northing: Not available

Well Log

Тор	Bottom	Formation
0.0	0.2	BLACK OIL STAINED SANDY GRAVEL
0.2	24.0	MEDIUM TO CRS SAND W/GRAVEL

Comments WELL # 6

Reference Driving Direction to Well Date Completed

72854 DAVY-MCKEE CORPORATION CO-ORDINATES N785, E3359 500' OF 42" WELL

#1 - 785' N OF CALVERT ST & 1650' W OF E LINE OF SECTION 16

2/18/1981

Owner-Contractor NameAddressTelephoneOwnerNEW ENERGY CO OF INDIANASOUTH BEND, INNot availableDrillerPEERLESS MIDWEST, INCGRANGER, INNot available

Operator JACK BOWLES License Not available

Construction Details

Well Use: Industry Drilling Method: Jet Pump Type: Not available

Depth: 52.0 Pump Setting Depth: Not available Water Quality: Not available

Casing Length: 49.0 Material: Not available Diameter: 2.0

Screen Length: 3.0 Material: Not available Diameter: 1.3

Slot Size: Not available

Well Capacity
Test
Type of Test: Not available
Test Rate: Not available
Test Rate: Not available
Bail Test Rate: Not available

Drawdown: Not available **Static Water Level:** Not available **Bailer Drawdown:** Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well
Abandonment
Sealing Material: Not available
Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of the NW of the SE of Section 16

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available

Location Accepted w/o Verification By: Not

Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available
Ft W of EL: 1,650.0
Ft E of WL: Not available
Ft S of NL: Not available
Ft S of NL: Not available

Ground Elevation: 717.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aquifer Elevation: 515.0

UTM Easting: 558375 UTM Northing: 4611625

Well Log

Тор	Bottom	Formation
0.0	3.0	MUCK
3.0	19.0	BR SAND
19.0	52.0	CRS S&G
52.0	60.0	CLAY W/GRAV
60.0	110.0	FINE SAND W/CLAY
110.0	186.0	CLAY W/GRAV
186.0	188.0	CLEAN FINE SAND
188.0	202.0	CLAY & GRAVEL

MC LOCATION

FROM BOB

WILLIAMS

PEERLESS

MIDWEST

PLOTTED ON

BASE MAP TEST

WELL #81-D

ONLY USEABLE

FORMATION

BOTTOMS @52'

SITE NOT

RECOMMENDED

FOR

PERMANENT

WELL

INSTALLATION

TYPE OF WELL -

TEST WELL

Reference **Driving Direction to Well Date Completed** Number

ON NORTH SIDE OF LINE BETWEEN POND #4 AND POND #3 72858 7/31/1984

Owner-Contractor Name Address Telephone **TORRINGTON COMPANY** SOUTH BEND IN Not available Owner 51255 BITTERSWEET RD P O BOX 26 Driller PEERLESS MIDWEST INC Not available

GRANGER IN Operator JOHN BLATZ License Not available

Construction Details

Well **Use:** Industry **Drilling Method:** Cable Tool Pump Type: Not available

Pump Setting Depth: Not **Depth: 35.0** Water Quality: Not available available

Length: 30.0 Material: Not available Diameter: 5.0 Casing Screen Length: 5.0 Material: Not available Diameter: 5.0

Slot Size: .012

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: SE of the NW of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available **Depth of Bedrock:** Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Top **Bottom Formation** MEDUIM TO CRS SAND W/GRAVEL 0.0 29.0 29.0 35.0 **GRAVEL WITH SOME SAND**

Comments WELL #5

Reference **Driving Direction to Well Date Completed** Number

DAVY MCKEE CORP COORDINATES N600, 33920-185' SE OF WELL #1 600' N 72859

OF CALVERT ST (EXTENDED) & 1071' W OF E LINE OF SECTION 16.

1/30/1981

Owner-Contractor Name Address Telephone NEW ENERGY COMPANY OF

Owner SOUTH BEND IN Not available INDIANA

Driller PEERLESS MIDWEST, INC GRANGER IN Not available

Operator JACK BOWLES License Not available

Construction Details

Well Use: Not available **Drilling Method:** Jet Pump Type: Not available

> Pump Setting Depth: Not Water Quality: Not available **Depth:** 190.0 available

Length: 186.0 Material: Not available Diameter: 2.0

Casing Length: 4.0 Material: Not available Diameter: 1.3 Screen

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting

Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well Abandonment

Depth: From (not available) To (not available) Sealing Material: Not available

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the NE of the SE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available

Ft W of EL: 1.071.0 Ft N of SL: 2.000.0 Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation: 714.0** Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation: 518.0 UTM Easting:** 558571 **UTM Northing:** 4611543

Well Log

Тор	Bottom	Formation
0.0	4.0	MUCK
4.0	16.0	BR MEDIUM SAND
16.0	45.0	CRS SAND & GRAVEL
45.0	59.0	MEDIUM SAND
59.0	85.0	CRS GRAVEL
85.0	126.0	S&G CLAY TRACES
126.0	143.0	MEDIUM SAND & GRAVEL
143.0	145.0	CLAY WITH GRAVEL
145.0	163.0	MEDIUM SAND
163.0	168.0	CLAY WITH GRAVEL
168.0	190.0	CRS S& G
190.0	196.0	CLAY WITH GRAVEL

Comments

MC, TEST WELL #81-C, LOCATION FROM BOB WILLIAMS PEERLESS MIDWEST

Reference **Driving Direction to Well Date Completed** Number

72862 700' E OF OLIVE ST, 495 S OF SAMPLE ST 10/8/1980

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE NORTHERN Not available Not available

Operator DON SNYDER License Not available

Construction Details

Well **Drilling Method:** Rotary Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth: 25.0** Water Quality: Not available

available

Length: 12.0 Material: Not available Diameter: 4.5 Casing Material: Not available Diameter: 4.0 Screen Length: 10.0

Slot Size: 0.012

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of the NW of the NE of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 715.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aguifer Elevation: 690.0 **UTM Easting: 559889 UTM Northing: 4612437**

Well Log

Тор	Bottom	Formation
0.0	1.0	FILL
1.0	4.0	BLACK TOP SOIL
4.0	13.0	GREY FN SILTY SAND
13.0	25.0	CRS SAND AND GRAVEL

Comments MONITOR WELL MIF 8-13

Reference **Driving Direction to Well Date Completed** Number

ALONG EAST EDGE OF MOUND CONTAINING BURIED OIL TANKS JUST 72863 7/30/1984

NORTH OF POND #4

Owner-Contractor Name Telephone Address Owner TORRINGTON COMPANY SOUTH BEND IN Not available

51255 BITTERSWEET ROAD P O BOX 26 Driller Not available PEERLESS MIDWEST INC

GRANGER IN

Operator JOHN BLATZ License Not available

Construction Details

Well Pump Type: Not available **Use:** Industry **Drilling Method:** Cable Tool

> Pump Setting Depth: Not Water Quality: Not available **Depth:** 33.0 available

Material: Not available Casing Length: 28.0 Diameter: 5.0 Material: Not available Diameter: 5.0 Screen Length: 5.0

Slot Size: .012

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information

Material: Not available **Depth:** From (not available) To (not available)

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH

Township: 37N

Section: SE of the NW of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	24.0	MEDIUM TO CRS SAND WITH GRAVEL
24.0	34.0	GRAVEL WITH SOME SAND

Comments WELL #4

Reference **Driving Direction to Well Date Completed** Number

DAVY MCKEE CORP COORDINATES N270, E4045 PROPOSED #2 WELL SITE 72864 270'N OF CALVERT ST (EXTENDED & 947' W OF E LINE OF SECTION 16.

1/27/1981

Not available

Owner-Contractor Name Telephone Address Owner NEW ENERGY CO OF INDIANA SOUTH BEND IN Not available

Driller PEERLESS MIDWEST INC GRANGER IN Operator **JACK BOWLES** License Not available

Construction Details

Pump Type: Not available Well Use: Industry **Drilling Method:** Jet

Pump Setting Depth: Not **Depth:** 165.0 Water Quality: Not available available

Length: 161.0 Material: Not available Diameter: 2.0 Casing Screen Length: 4.0 Material: Not available Diameter: 1.3

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: SW of the NE of the SE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: 947.0 Ft N of SL: 1,650.0 Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 714.0 **Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aguifer Elevation: 520.0 UTM Easting: 558608 **UTM Northing: 4611439**

Well Log

Тор	Bottom	Formation
0.0	4.0	MUCK
4.0	15.0	BROWN SAND
15.0	81.0	CRS SAND & GRAVEL
81.0	95.0	CRS GRAVEL & CLAY
95.0	118.0	CRS GRAVEL
118.0	125.0	CLAY WITH SAND & GRAVEL
125.0	134.0	MEDIUM SAND
134.0	140.0	SANDY CLAY
140.0	158.0	CRS SAND & GRAVEL
158.0	160.0	CLAY
160.0	189.0	CRS SAND & GRAVEL
189.0	195.0	CLAY & GRAVEL

MC, LOCATION FROM BOB WILLIAMS AT PEERLESS MIDWEST, TEST WELL # 81-B

Reference **Driving Direction to Well Date Completed** Number

FROM USGS BULLETIN #3, SJ 4-T1. OBSERVATION WELL ST. JOSEPH 11. 72866

10/19/1944 OLIVE ST. STATION, 140' E. OF W. PROPERTY LINE & 200' N. OF NYC RR.

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller LAYNE-NORTHERN COMPANY, INC. Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available Pump Setting Depth: Not

Depth: 152.0 Water Quality: Not available available

Material: Not available Length: Not available Diameter: 3.0 Casing

Screen Length: 6.0 Material: Not available Diameter: Not available

Slot Size: Not available

Well Capacity Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 18.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Range: 2E Section: NE of the NW of Section 15

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 716.0 **Depth of Bedrock:** Not available **Bedrock Elevation:** Not available Aquifer Elevation: Not available **UTM Northing:** Not available **UTM Easting:** Not available

Well Log

Тор	Bottom	Formation
0.0	2.0	TOP SOIL
2.0	3.0	SAND & CLAY
3.0	15.0	SAND
15.0	22.0	CRS SAND
22.0	25.0	SAND
25.0	86.0	S&G
86.0	118.0	GRAVELLY CLAY
118.0	165.0	S&G
165.0	171.0	LOWER MISSISSIPPIAN SER. SHALE

Comments

None

Reference **Driving Direction to Well Date Completed** Number

DAVY MCKEE CORP COORDINATES N785.0, E3845.0-15' W OF 42" WELL #1 72869 1/19/1981

785' N OF CALVERT ST (EXTENDED & 1146' W OF E LINE OF SECTION 16.

Owner-Contractor Name Telephone Address Owner NEW ENERGY CO OF INDIANA SOUTH BEND IN Not available Driller PEERLESS MIDWEST INC GRANGER IN Not available

Operator **JACK BOWLES** License Not available

Construction Details

Pump Type: Not available Well Use: Industry **Drilling Method:** Jet

Pump Setting Depth: Not **Depth:** 185.0 Water Quality: Not available available

Length: 180.0 Material: Not available Diameter: 4.0 Casing Screen Length: 5.0 Material: Not available Diameter: 4.0

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> **Drawdown:** Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NW of the NE of the SE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available **Ft W of EL:** 1,146.0 Ft N of SL: 2.200.0

Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 714.0 **Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aguifer Elevation: 520.0

UTM Northing: 4611599 UTM Easting: 558536

Well Log

Тор	Bottom	Formation
0.0	4.0	MUCK
4.0	15.0	BR SAND
15.0	60.0	MEDIUM S&G
60.0	63.0	CLAY
63.0	75.0	CRS GRAVEL CLAY TRACES
75.0	103.0	SOFT CLAY
103.0	105.0	CRS GRAVEL
105.0	125.0	CLAY WITH GRAVEL
125.0	164.0	MEDIUM SAND & GRAVEL
164.0	175.0	CLAY & GRAVEL
175.0	186.0	CRS SAND & GRAVEL
186.0	184.0	CLAY & GRAVEL

LOCATION FROM BOB WILLIAMS AT PEERLESS MIDWEST, MC, TEST WELL T81A

3/25/1947

Not available

Record of Water Well **Indiana Department of Natural Resources**

Not available

Reference **Driving Direction to Well Date Completed** Number

OLIVER PARK STATION, OLIVER ST. & NEW YORK CENTRAL RAILROAD, 72871

FROM USGS BULLETIN #3 SJ 4-28.

Owner-Contractor Name Address Telephone CITY OF SOUTH BEND Not available Not available

Not available License Not available Operator

Construction Details

Owner

Driller

Test

Well Use: Not available Drilling Method: Not available Pump Type: Not available

Pump Setting Depth: Not **Depth:** 171.0 Water Quality: Not available available

Length: Not available Material: Not available Diameter: Not available Casing

Screen Length: 40.0 Material: Not available Diameter: 26.0

Slot Size: 155

Not available

Well Capacity **Test Rate:** 2,300.0 gpm for 23.0 Type of Test: Not available

Bail Test Rate: Not available

Drawdown: 22.2 ft. Static Water Level: 19.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Range: 2E Section: NE of the NE of the NW of Section 15

Grant: Not available Topo Map: SOUTH BEND WEST

Field Located On: Not available Field Located By: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 712.0 Depth of Bedrock: 191.0 **Bedrock Elevation: 521.0** Aquifer Elevation: Not available

UTM Easting: 559600 **UTM Northing:** 4612500

Well Log

Тор	Bottom	Formation
0.0	7.0	FILL
7.0	16.0	CLAY
16.0	47.0	GRAV & CRS SAND
47.0	80.0	MUCK
80.0	129.0	SAND & RUSTY GRAV
129.0	143.0	CLEAN GRAV & SAND
143.0	170.0	S&G
170.0	191.0	RUSTY S&G
191.0	0.0	LOWER MISSISSIPIAN SHALE

Comments PLOTTED ON BEDROCK MAP.

Reference Driving Direction to Well Date Completed

72872 450' E OF OLIVE ST, 450' S OF SAMPLE ST 10/9/1980

Owner-Contractor NameAddressTelephoneOwnerCITY OF SOUTH BENDNot availableNot availableDrillerLAYNE NORTHERNNot availableNot available

Operator DON SNYDER License Not available

Construction Details

Well Use: Not available Drilling Method: Rotary Pump Type: Not available

Depth: 40.0 Pump Setting Depth: Not water Quality: Not available

available

Casing Length: 34.0 Material: Not available Diameter: 85.0 Screen Length: 5.0 Material: Not available Diameter: 4.0

Slot Size: 0.025

Well Capacity

Test Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available

Drawdown: Not available **Static Water Level:** Not available **Bailer Drawdown:** Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available **Number of Bags Used:** Not available

Well

Abandonment Sealing Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NW of the NW of the NE of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available available

Subdivision Name: LAYNE

Ft W of EL: Not available

Ft E of WL: Not available

Ft S of NL: Not available

Ground Elevation: 716.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aquifer Elevation:** 676.0 **UTM Easting:** 559812 **UTM Northing:** 4612451

Well Log

Тор	Bottom	Formation
0.0	2.0	LAND FILL
2.0	4.0	BLACK TOP SOIL
4.0	14.0	GREY FINE SILTY SAND
14.0	40.0	CRS SAND & GRAVEL

Comments

None

Reference **Driving Direction to Well Date Completed** Number

APRX 15' E OF NE CORNER OF MAINTENANCE SHED B MAP ATTACHED 72873 8/10/1984

Owner-Contractor Name Address Telephone **TORRINGTON CO** S BEND Not available Owner 51255 BITTERSWEET RD PO BOX 26 Driller PEERLESS MIDWEST INC Not available

GRANGER

JOHN BLATZ License Not available Operator

Construction Details

Well **Use:** Industry **Drilling Method:** Cable Tool Pump Type: Not available Pump Setting Depth: Not

Depth: 61.0 Water Quality: Not available available

Length: 56.0 Material: Not available Diameter: 5.0 Casing Screen Length: 5.0 Material: Not available Diameter: 5.0

Slot Size: .012

Well Capacity

Test Rate: Not available Type of Test: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: SE of the NW of the NE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 712.0 **Depth of Bedrock:** Not available

Bedrock Elevation: Not available Aquifer Elevation: 651.0

UTM Easting: 558375 **UTM Northing:** 4612275

Well Log

Тор	Bottom	Formation
0.0	0.4	REINFORCED CONCRETE
0.4	0.8	BLACKTOP PAVEMENT
0.8	1.8	BRN GRAVELLY SAND FILL
1.8	61.0	MED TO CRS SAND W/ GRAV
61.0	0.0	GRAVELLY SANDY CLAY

Comments WELL 3

Reference **Driving Direction to Well Date Completed** Number

72874 N376.5 E 4160 376.5 NORTH OF CALVERT STREET 9/1/1983

Owner-Contractor Name Address **Telephone** Owner NEW ENERGY CO OF INDIANA SOUTH BEND IN Not available Driller PEERLESS MIDWEST INC P O BOX 26 GRANGER IN Not available

Operator MIKE GARRAGE License Not available

Construction Details

Drilling Method: REVERSE CIR Pump Type: Not available Well **Use:** Industry

> Pump Setting Depth: Not **Depth:** 106.0 Water Quality: Not available available

Length: 88.0 Material: Not available Diameter: 16.0 Casing Material: Not available Diameter: 16.0 Screen Length: 20.0

Slot Size: .055

Well Capacity

Test Rate: 1,200.0 gpm for 8.0 Bail Test Rate: Not available Type of Test: Not available Test

> Drawdown: 24.0 ft. Static Water Level: 28.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the SW of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	4.0	FILL SAND
4.0	19.0	MED SAND WITH GRAVEL
19.0	32.0	MED SAND & GRAVEL
32.0	45.0	MED SAND & FINE GRAVEL
45.0	50.0	FINE SAND & GRAVEL
50.0	62.0	MEDIUM S&G
62.0	72.0	CLAY WITH GRAVEL
72.0	86.0	FINE SAND
86.0	93.0	MEDIUM S&G
93.0	95.0	FN & MEDIUM SAND SOME GRAVEL
95.0	104.0	MED SAND & GRAVEL & BOULDERS
104.0	106.0	S&G WITH CLAY
106.0	0.0	CLAY, GRAVEL & BOULDERS

Comments

Reference **Driving Direction to Well Date Completed** Number

FROM USGS BULLETIN #3 SJ 6-8A SAMPLE STREET AND CAMDEN STREET 72877 1/1/1921

Owner-Contractor Name Address **Telephone** Owner CITY OF SOUTH BEND Not available Not available Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available

> Pump Setting Depth: Not **Depth:** 194.0 Water Quality: Not available

available

Length: Not available Material: Not available Diameter: Not available Casing Material: Not available Diameter: Not available

Length: Not available Screen Slot Size: Not available

Well Capacity

Bail Test Rate: Not available Test Rate: Not available Type of Test: Not available Test

> Drawdown: Not available Static Water Level: 5.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: SW of the SW of the SW of Section 10 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation: 716.0** Depth of Bedrock: 188.0 **Bedrock Elevation:** 528.0 **Aguifer Elevation:** Not available

UTM Easting: 559100 **UTM Northing:** 4612775

Тор	Bottom	Formation
0.0	8.0	TOP SOIL
8.0	25.0	SAND AND GRAVEL
25.0	32.0	HARDPAN
32.0	44.0	SAND AND GRAVEL
44.0	66.0	SAND, GRAVEL, AND BOULDERS
66.0	77.0	S&G WITH SOME BOULDERS
77.0	85.0	GRAVEL
85.0	105.0	FINE SAND WITH SOME GRAVEL
105.0	124.0	FINE SAND
124.0	127.0	HARDPAN
127.0	155.0	CRS SAND
155.0	170.0	FINE SAND
170.0	180.0	FINER SAND
180.0	188.0	FINE SAND WITH SOME CLAY

188.0 LOWER MISS. RIVER SHALE

Reference **Driving Direction to Well Date Completed** Number

72882 Dunham St. and Camden St, from USGS Bulletin #3. Sj 6-9A 12/30/1920

Owner-Contractor Name Address **Telephone** Owner City of South Bend Not available Not available Driller N/A Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available

> Pump Setting Depth: Not **Depth:** 182.0 Water Quality: Not available available

Length: Not available Material: Not available Diameter: Not available Casing

Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity

Bail Test Rate: Not available Test Rate: Not available Type of Test: Not available Test

Drawdown: Not available Static Water Level: 5.4 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of the SW of the SW of Section 10 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation: 715.0** Depth of Bedrock: 180.0 **Bedrock Elevation:** 535.0 Aguifer Elevation: 535.0 **UTM Easting:** Not available **UTM Northing:** Not available

Тор	Bottom	Formation
0.0	8.0	top soil
8.0	25.0	sand , gravel
25.0	32.0	hardpan
32.0	44.0	sand, gravel
44.0	66.0	sand, gravel and boulders
66.0	77.0	sand, gravel w/ some boulders
77.0	85.0	gravel
85.0	105.0	fine sand w/ some gravel
105.0	124.0	fine sand
124.0	127.0	hardpan
127.0	155.0	coarse sand
155.0	170.0	fine sand
170.0	180.0	finer sand, clay
180.0	182.0	Mississippi Shale

Comments

Reference **Driving Direction to Well Date Completed** Number

FROM USGS BULLETIN #3 SJ 6-12A/ CAMDEN STREET, 150 FT. SOUTH OF 72887

WEST WASHINGTON STREET

1/1/1921

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available Pump Setting Depth: Not

Depth: 210.0 Water Quality: Not available available

Length: Not available Material: Not available Casing Diameter: Not available Screen **Length:** Not available Material: Not available **Diameter:** Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 7.0 ft. Bailer Drawdown: Not available

Grouting Information

Material: Not available **Depth:** From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH

Township: 37N Section: SW of the SW of the NW of Section 10 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 713.0 Depth of Bedrock: 207.0 **Bedrock Elevation: 506.0** Aquifer Elevation: Not available

UTM Easting: Not available **UTM Northing:** Not available

Тор	Bottom	Formation
0.0	7.0	TOP SOIL
7.0	20.0	SAND AND GRAVEL
20.0	32.0	COARSE GRAVEL
32.0	40.0	GRAVEL AND CLAY
40.0	45.0	CLAY
45.0	70.0	QUICK SAND
70.0	79.0	GRAVEL
79.0	80.0	CLAY
80.0	90.0	COARSE SAND
90.0	140.0	SAND AND GRAVEL
140.0	160.0	SAND
160.0	170.0	SAND AND GRAVEL
170.0	190.0	SAND

1	190.0	207.0	SAND AND GRAVEL
[2	207.0	210.0	LOWER MISSISSIPPI SHALE

Reference Driving Direction to Well Date Completed

72902 FORD STREET AND CAMDEN STREET, FROM USGS BULLETIN #3 SJ 6-10A 1/1/1921

Owner-Contractor NameAddressTelephoneOwnerCITY OF SOUTH BENDNot availableNot availableDrillerNot availableNot availableNot available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available

Depth: 198.0 Pump Setting Depth: Not Water Quality: Not available

available

Not available

Not available

Not available

Casing Length: Not available Material: Not available Diameter: Not available Screen Length: Not available Material: Not available Diameter: Not available

Screen Length: Not available Material: Not available Diameter: Not available Slot Size: Not available

Clot Cize. Not available

Well Capacity
Test
Type of Test: Not available
Test Rate: Not available
Test Rate: Not available
Bail Test Rate: Not available

Drawdown: Not available Static Water Level: 5.4 ft. Bailer Drawdown: Not available

Grouting Information Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well
Abandonment
Sealing Material: Not available
Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SW of the NW of the SW of Section 10

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available available

Subdivision Name:Not availableFt W of EL:Not availableFt E of WL:Not availableGround Elevation:716.0Lot Number:Not availableFt N of SL:Not availableFt S of NL:Not availableDepth of Bedrock:188.0

Bedrock Elevation: 528.0 Aquifer Elevation: Not available UTM Easting: Not available UTM Northing: Not available

Тор	Bottom	Formation
0.0	8.0	TOP SOIL
8.0	25.0	BLANK
25.0	32.0	S&G
32.0	44.0	HARDPAN
44.0	66.0	S&G
66.0	77.0	SAND, GRAV AND BOULDERS
77.0	85.0	S&G/SOME BOULDERD
85.0	105.0	GRAV
105.0	124.0	FINE SAND WITH SOME GRAV
124.0	127.0	FINE SAND
127.0	155.0	HARDPAN
155.0	170.0	CRS SAND
170.0	180.0	FINE SAND]
180.0	188.0	FINER SAND

188.0	197.0	FINE SAND AND CLAY
197.0	198.0	LOWER MISSISSIPPIAN SHALE (?)

Comments

PLOTTED ON BEDROCK MAP/ WELL LOG FOR SJ 6-8A CLOSE AND SIMILIAR/ NO LOB FOR SJ 6 -10A/ USED TOP OF CLAY - IT FIT MUCH BETTER

1/1/1921

Record of Water Well Indiana Department of Natural Resources

Reference **Driving Direction to Well Date Completed** Number

FROM USGS BULLETIN #3/ SJ 6-7A/ SAMPLE STREET, JUST WEST OF OLIVE 72976

STREET

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller Not available Not available Not available

Not available License Not available Operator

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available

Pump Setting Depth: Not **Depth:** 184.0 Water Quality: Not available available

Length: Not available Material: Not available Diameter: Not available Casing Screen Length: Not available Material: Not available Diameter: Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 8.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

Installation Method: Not available Number of Bags Used: Not available

Well **Abandonment**

Sealing Material: Not available **Depth:** From (not available) To (not available)

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Range: 2E Section: SW of the SE of the SW of Section 10

Grant: Not available Topo Map: SOUTH BEND WEST

Field Located On: Not available Field Located By: Not available Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 710.0 Depth of Bedrock: 176.0 **Bedrock Elevation: 534.0** Aquifer Elevation: Not available

UTM Easting: 559400 **UTM Northing:** 4612650

Well Log

Тор	Bottom	Formation
0.0	8.0	TOP SOIL
8.0	20.0	GRAVEL
20.0	28.0	LIGHT COLORED SAND
28.0	35.0	CEMENTED SAND
35.0	47.0	SAND AND GRAVEL
47.0	75.0	SOMEWHAT CRS SAND & GRAV
75.0	125.0	GRAV
125.0	150.0	SAND AND GRAVEL
150.0	176.0	SOMEWHAT CRSE S&G
176.0	184.0	LOWER MISS. BLUE SHALE

Reference **Driving Direction to Well Date Completed** Number

IOWA STREET AND HARON STREET, FROM USGS BULLETIN #3 SJ6-16A 72981 1/1/1921

Owner-Contractor Name Address **Telephone** CITY OF SOUTH BEND Not available Not available Owner Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Drilling Method: Not available Pump Type: Not available **Use:** Not available

> Pump Setting Depth: Not **Depth:** 193.0 Water Quality: Not available

available

Length: Not available Material: Not available Diameter: Not available Casing

Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity

Test Rate: Not available Bail Test Rate: Not available Type of Test: Not available Test

> Drawdown: Not available Static Water Level: 5.0 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NE of the NE of the SE of Section 9 Range: 2E

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation: 714.0** Depth of Bedrock: 193.0

Bedrock Elevation: 521.0 Aguifer Elevation: Not available

UTM Northing: 4613300 UTM Easting: 558750

Well Log

Тор	Bottom	Formation
0.0	10.0	TOP SOIL
10.0	20.0	FINE SAND
20.0	50.0	SAND AND GRAVEL
50.0	130.0	CRS SAND
130.0	160.0	FINER SAND
160.0	193.0	CRS SAND
193.0	0.0	BEDROCK - UNKNOWN TYPE

Reference **Driving Direction to Well Date Completed** Number

SAMPLE STREET AND FAKEN STREET (EXTENDED) FROM USGA BULLETIN 72986

#3, SJ 6-21A

1/1/1921

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available Pump Setting Depth: Not

Depth: 200.0 Water Quality: Not available available

Material: Not available Length: Not available Diameter: Not available Casing Screen Length: Not available Material: Not available **Diameter:** Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Bail Test Rate: Not available Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 3.7 ft. Bailer Drawdown: Not available

Grouting Material: Not available **Depth:** From (not available) To (not available) Information

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: SW of the SE of the SE of Section 9 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 714.0 Depth of Bedrock: 200.0 **Bedrock Elevation: 514.0** Aquifer Elevation: Not available

UTM Easting: 558550 **UTM Northing:** 4612650

Well Log

Тор	Bottom	Formation
0.0	10.0	SANDY LOAM
10.0	65.0	FINE SAND
65.0	85.0	CLAY
85.0	90.0	HARD CLAY
90.0	200.0	SAND AND GRAVEL
200.0	0.0	BEDROCK - UNKNOWN TYPE

1/1/1921

Record of Water Well **Indiana Department of Natural Resources**

Reference **Driving Direction to Well Date Completed** Number

CAMDEN STREET, 150 FT. SOUTH OF WEST WASHINGTON STREET, FROM 72991

USGS BULLETIN #3, SJ 6-11A

Owner-Contractor Name Address Telephone Owner CITY OF SOUTH BEND Not available Not available Driller Not available Not available Not available

Operator Not available License Not available

Construction Details

Well Use: Not available Drilling Method: Not available Pump Type: Not available Pump Setting Depth: Not

Depth: 211.0 Water Quality: Not available available

Material: Not available Casing **Length:** Not available Diameter: Not available Screen **Length:** Not available Material: Not available **Diameter:** Not available

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 5.8 ft. Bailer Drawdown: Not available

Grouting Information

Material: Not available **Depth:** From (not available) To (not available)

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH

Township: 37N Range: 2E

Section: SW of the SW of the NW of Section 10

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification On: Not Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 713.0 Depth of Bedrock: 211.0 **Bedrock Elevation: 502.0** Aquifer Elevation: Not available

UTM Easting: 558975 **UTM Northing:** 4613450

Тор	Bottom	Formation
0.0	8.0	TOP SOIL
8.0	12.0	SAND
12.0	20.0	SAND AND GRAVEL
20.0	30.0	GRAVEL AND COARSE SAND
30.0	40.0	MUDDY GRAV AND CRS SAND
40.0	50.0	CLAY AND SOME HARDPAN
50.0	60.0	SAND AND GRAVEL
60.0	70.0	GRAVEL
70.0	80.0	QUICK SAND
80.0	90.0	FINE SAND
90.0	100.0	SAND WITH SOME GRAVEL
100.0	110.0	CRS SAND AND FINE GRAVEL
110.0	120.0	CRSE SAND & FINE GRAV(MORE SAN

120.0	130.0	FINER SAND W/ SM AMT OF GRAV
130.0	140.0	FINER SAND W/SM AMT OF GRAV
140.0	160.0	SMALL GRAVEL AND FINE SAND
160.0	170.0	SMALL GRAV AND FINE SAND (SAND
170.0	180.0	SM GRAV AND FN SAND(MORE GRAV
180.0	190.0	FINER SAND-GETTING MUDDY
190.0	211.0	MUD
211.0	0.0	SHALE

9/19/2000

Record of Water Well **Indiana Department of Natural Resources**

Reference **Driving Direction to Well Date Completed** Number

OLIVE ST WELL FIELD, 200' W OF OLIVE ST, 475' S OF OLIVE ST STATION, 25' 343448

S OF WELL #1

Owner-Contractor Name Telephone Address Owner SOUTH BEND WATER WORKS SOUTH BEND. IN Not available

55860 RUSSEL IND. PKWY., MISHAWAKA, Driller (219)254-9050 PEERLESS-MIDWEST INC.

Operator BEEHLER KEISER License: 281

Construction Details

Well Use: Test Drilling Method: MUD ROTARY Pump Type: Not available

> Pump Setting Depth: Not **Depth:** 189.0 Water Quality: Not available available

Material: Not available Casing Length: Not available **Diameter:** Not available Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information

Material: Not available **Depth:** From (not available) To (not available)

> Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: BENT GROUT Depth: From 0 To 189 Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative

County: ST. JOSEPH Township: 37N

Section: NW of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification On: Not

Location Accepted w/o Verification By: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 720.0 Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Тор	Bottom	Formation
0.0	8.0	BRN GRAVELLY CLAY
8.0	12.0	CRS S&G W/FN MED SAND
12.0	44.0	CRS SAND SOME FN MED CLAY STRP
44.0	63.0	DK BRN TO DK GRAY CLAY
63.0	70.0	LT GRAY STICKY CLAY
70.0	100.0	CRS S&G W/FN MED SAND
100.0	110.0	MED CRS SAND W/GRAV FN SAND
110.0	125.0	CRS S&G W/FN MED SAND
125.0	130.0	CRS MED SAND SOME FN
130.0	150.0	CRS S&G, SOME FN MED SAND
150.0	160.0	MED CRS SAND SOME FN MED
160.0	170.0	CRS SAND MED GRAV

170.0	186.0	CRS SAND W/FN GRAV
186.0	189.0	BLUE GRAY SH W/S&G

Comments TW-OOB; JOB 16145

Reference **Driving Direction to Well Date Completed** Number

OLIVE ST STATION, 750' W OF OLIVE ST, +/-575' N OF TUCKER DR, 25' SW OF 343455

WELL #2

9/19/2000

Owner-Contractor Name Address Telephone Owner SOUTH BEND WATER WORKS SOUTH BEND. IN Not available

55860 RUSSEL IND. PKWY., MISHAWAKA, Driller PEERLESS-MIDWEST INC.

(219)254-9050

Operator BEEHLER KEISER License: 281

Construction Details

Well Use: Test Drilling Method: MUD ROTARY Pump Type: Not available

> Pump Setting Depth: Not **Depth:** 175.0 Water Quality: Not available

available

Material: Not available Casing Length: Not available **Diameter:** Not available

Length: Not available Material: Not available Diameter: Not available Screen

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information

Material: Not available **Depth:** From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Well

Sealing Material: BENT GROUT Depth: From 0 To 175 Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: NW of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 720.0 Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Тор	Bottom	Formation
0.0	3.0	BRN SANDY CLAY TOPSOIL
3.0	28.0	CRS AND W/FN MED SAND FN GRAV
28.0	49.0	CRS MED SAND W/FN SAND & GRAV
49.0	70.0	MED SAND W/FN CRS SAND
70.0	82.0	MED FN SAND W/CRS SAND
82.0	96.0	FN GRAV W/CRS SAND
96.0	110.0	CRS SAND W/FN MED SAND
110.0	120.0	CRS SAND TO FN GRAV
120.0	130.0	MED CRS SAND W/FN SAND
130.0	140.0	CRS SAND FN GRAV
140.0	145.0	CRS MED SAND SOME FN
145.0	150.0	CRS SAND FN GRAV

150.0	155.0	MED CRS SAND W/FN
155.0	160.0	CRS SAND FN GRAV W/FN MED
160.0	172.0	MED SAND W/CRS S&G
172.0	175.0	BLUE SH/CLAY W/S&G

Comments TW-00A

10/30/2000

Record of Water Well **Indiana Department of Natural Resources**

Reference **Driving Direction to Well Date Completed** Number

230' W OF OLIVE ST & 1100' S OF SAMPLE ST; WELL #1A - OLIVE ST WELL 348313

FIELD

Owner-Contractor Name Address **Telephone**

SOUTH BEND WATER 830 N MICHIGAN ST SOUTH BEND IN Owner Not available DEPARTMENT

55860 RUSSELL INDUSTRIAL PKWY Driller PEERLESS MIDWEST INC (219)254-9050 MISHAWAKA IN

Operator DOUGLAS GENTRY/RUSSELL BUCKLicense: 1182/913

Construction Details

Well Use: Public Supply Pump Type: Not available **Drilling Method:** R.C

Pump Setting Depth: Not **Depth:** 187.0 Water Quality: Not available available

Length: 139.0 Material: STEEL Diameter: 18.0 Casing Material: SSWW Screen Length: 20.0 Diameter: 18.0

Slot Size: .050

Well Capacity

Test Rate: 2,338.0 gpm for 8.0 Type of Test: Pumping Bail Test Rate: Not available Test

Drawdown: 29.0 ft. Bailer Drawdown: Not available Static Water Level: 20.0 ft.

Grouting Information

Material: NEAT CEMENT Depth: From 0.0 To 120.0

Installation Method: TREMIE Number of Bags Used: 320.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Range: 2E Section: NW of Section 15

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located On: Not available Field Located By: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available **UTM Easting:** Not available **UTM Northing:** Not available

Тор	Bottom	Formation
0.0	1.0	TOPSOIL
1.0	6.0	FILL
6.0	12.0	LOAMY CLAY
12.0	24.0	S&G
24.0	32.0	S&G W/STRIPS OF CLAY
32.0	43.0	FINE0MED SAND
43.0	72.0	CLAY
72.0	83.0	FINE-MED SAND W/FINE-MED GRAVE
83.0	100.0	GRAVEL W/FINE, MED & CRS SAND
100.0	108.0	FINE, MED & CRS S&G W/ROCKS
108.0	115.0	FINE SAND & CLAY

10/23/2000

(219)254-9050

Record of Water Well **Indiana Department of Natural Resources**

Reference **Driving Direction to Well Date Completed** Number

790' W OF OLIVE ST & 1100' S OF SAMPLE ST; WELL #2A - OLIVE ST WELL 348318

FIELD

Owner-Contractor Name Telephone Address Owner CITY OF SOUTH BEND 830 N MICHIGAN ST SOUTH BEND IN Not available

55860 RUSSELL INDUSTRIAL PKWY Driller PEERLESS MIDWEST INC

MISHAWAKA IN

Operator DOUGLAS GENTRY/RUSSELL BUCKLicense: 1182/913

Construction Details

Test

Drilling Method: R.C. Well Use: Public Supply Pump Type: Not available

Pump Setting Depth: Not **Depth: 159.0** Water Quality: Not available available

Length: 111.0 Material: STEEL Diameter: 18.0 Casing

Material: SSWW Diameter: 18.0 Screen Length: 50.0

Slot Size: .050

Well Capacity **Test Rate:** 2,338.0 gpm for 8.0 Type of Test: Pumping

Bail Test Rate: Not available

Static Water Level: 20.0 ft. Drawdown: 17.0 ft. Bailer Drawdown: Not available

Grouting Material: NEAT CEMENT **Depth:** From 0.0 To 94.0 Information

> Number of Bags Used: 255.0 Installation Method: TREMIE

Well **Depth:** From (not available) To (not available) Sealing Material: Not available Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

> Section: NW of Section 15 Range: 2E

> Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available

Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aquifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Тор	Bottom	Formation
0.0	2.0	TOPSOIL
2.0	14.0	FINE S&G
14.0	27.0	GRAVEL W/FINE, MED & CS SAND
27.0	29.0	FINE, MED 7 CS SNAD, SOME GRAV
29.0	37.0	GRAVEL W/FINE, MED & CS SAND
37.0	48.0	GRAEVL W/FINE, MED & CS SAND W
48.0	52.0	FINE-MED SAND
52.0	65.0	FINE GRAVEL W/FINE, MED & CS S
65.0	80.0	FINE, MED & CS SAND
80.0	99.0	CS S&G W/SOME FINE-MED SAND
99.0	104.0	FINE, MED & CS S&G
104.0	110.0	FINE-MED SAND, SOME CS S&G

Reference **Driving Direction to Well Date Completed** Number

+/- 1300' S OF SAMPLE ST, +/- 2100' E OF OLIVE ST, NEAR CORNER OF 372058

POWER SUBSTATION

3/23/2003

(574)254-9050

Owner-Contractor Name Address Telephone Owner SOUTH BEND WATER WORKS 830 N MICHIGAN ST., SOUTH BEND, IN Not available

55860 RUSSELL INDUSTRIAL PKWY., Driller PEERLESS-MIDWEST INC.

MISHAWAKA, IN

Operator JOHN BLATZ License: 214

Construction Details

Well Use: Other **Drilling Method:** Cable Tool Pump Type: Not available

Pump Setting Depth: Not Depth: Not available Water Quality: Not available available

Casing **Length:** 151.0 Material: GALV Diameter: 2.0 Length: Not available Material: SSWW Diameter: 2.0 Screen

Slot Size: Not available

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Information

Material: CEMENT GROUT BENT **Depth:** From 5.0 To 146.0

Number of Bags Used: 42.0 Installation Method: TREMMIE

Well Abandonment

Sealing Material: Not available **Depth:** From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative

County: ST. JOSEPH Township: 37N

Section: NW of the SW of the NE of Section 15 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located On: 3/23/2003 Field Located By: DRILLER

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: 2.075.0

Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: 1.425.0 **Ground Elevation: 718.0**

Depth of Bedrock: Not available

Bedrock Elevation: Not available Aquifer Elevation: 562.0 **UTM Easting:** 559877 **UTM Northing:** 4612158

Well Log

Тор	Bottom	Formation
0.0	3.0	FILL
3.0	9.0	MARL
9.0	30.0	S&G
30.0	42.0	CLAY
42.0	49.0	MED SAND
49.0	61.0	CLAY
61.0	86.0	MED
86.0	114.0	CRS S&G
114.0	147.0	CRS SAND
147.0	148.0	BRN CLAY
148.0	156.0	FN TO MED SAND

Comments

2 MONITORING WELL, 2ND WELL'S CASING L IS 5'; FC ONLY; TJX SITE FORMERLY ASHLAND CHEMICAL; MONITORING WELL #TJX MW-03B

Reference Driving Direction to Well Date Completed

TAKE SR2 W OF MAYFLOWER RD, 2ND STREET HEADING S IS ELMER ST,

THEN S TO 56576 ELMER ST

3/24/2003

Owner-Contractor NameAddressTelephoneOwnerTERRY KORPAL56576 ELMER ST., SOUTH BEND, IN(000)315-9442

Driller S.R. MANSFIELD WELL DRILLING 58560 QUINCE RD., SOUTH BEND, IN (000)234-6789

Operator TERRY MANSFIELD License: 1604

Construction Details

Well Use: Home Drilling Method: Rotary Pump Type: Submersible Depth: 72.0 Pump Setting Depth: 40.0 Water Quality: CLEAR

Casing Length: 67.0 Material: PVC Diameter: 4.0 Screen Length: 5.0 Material: PVC Diameter: 4.0

Slot Size: .020

Well Capacity

Test Rate: 40.0 gpm for 1.5 hrs. Bail Test Rate: Not available

Drawdown: 3.0 ft. **Static Water Level:** 25.0 ft. **Bailer Drawdown:** Not available

Grouting Information Material: QUICK GROUT Depth: From 0.0 To 60.0

Installation Method: PRESS Number of Bags Used: 2.5

Well

Abandonment Sealing Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available **Number of Bags Used:** Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SE of Section 8

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available

Courthouse Location By: Not available

Courthouse Location On: Not available

Courthouse Location On: Not available

Courthouse Location By: Not available

Location Accepted w/o Verification By: Not

Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available

Ft W of EL: Not available

Ft E of WL: Not available

Ft S of NL: Not available

Ground Floration: Not available

Posth of Redrock: Not available

Ground Elevation: Not available

Bedrock Elevation: Not available

UTM Easting: Not available

UTM Northing: Not available

UTM Northing: Not available

Well Log

Тор	Bottom	Formation
0.0	1.0	TOPSOIL
1.0	3.0	FN SAND
3.0	27.0	CRS S&G
27.0	36.0	CLAY
36.0	59.0	CLAY & FN SAND
59.0	72.0	CRS SAND

Comments

PERMIT 02-1686-

W

3/24/2003

Record of Water Well **Indiana Department of Natural Resources**

Reference **Driving Direction to Well Date Completed** Number

TAKE SR2 W OF MAYFLOWER RD, 3RD ST HEADING S IS BUTTERNUT RD 373373

THEN S TO 56780 BUTTERNUT RD

Owner-Contractor Name Telephone Address Owner DARYL BJORAAS 56780 BUTTERNUT RD., SOUTH BEND, IN (000)237-4942

Driller S.R. MANSFIELD WELL DRILLING 58560 QUINCE RD., SOUTH BEND, IN (000)234-6789

Operator **TERRY MANSFIELD** License: 1604

Construction Details

Well Use: Home **Drilling Method:** Rotary Pump Type: Submersible **Depth:** 66.0 Pump Setting Depth: 40.0 Water Quality: CLEAR

Length: 61.0 Material: PVC Diameter: 4.0 Casing Material: PVC Diameter: 4.0 Screen Length: 5.0

Slot Size: .012

Well Capacity

Type of Test: Air **Test Rate:** 40.0 gpm for 1.5 hrs. Bail Test Rate: Not available Test

> Drawdown: 4.0 ft. Static Water Level: 20.0 ft. Bailer Drawdown: Not available

Grouting Material: QUICK GROUT **Depth:** From 0.0 To 50.0 Information

> **Installation Method: PRESS** Number of Bags Used: 2.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SE of Section 8

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available Aguifer Elevation: Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log

Тор	Bottom	Formation
0.0	1.0	TOPSOIL
1.0	6.0	FN SAND
6.0	26.0	GRAV & CRS SAND
26.0	52.0	FN & MED SAND
52.0	66.0	CRS SAND

Comments

PERMIT 03-0204-

Reference **Driving Direction to Well Date Completed** Number

376005 +/- 400' N OF CALVERT 9/17/2003

Owner-Contractor Name Address **Telephone** NEW ENERGY CO. OF INDIANA PO BOX 2289, SOUTH BEND, IN (574)233-3116 Owner

55860 RUSSELL INDUSTRIAL PARKWAY, Driller PEERLESS-MIDWEST INC. (574)254-9050 MISHAWAKA, IN

Operator **BRUCE MCLEISH** License: 1186

Construction Details

Well Use: Test **Drilling Method:** Rotary Pump Type: Not available

Pump Setting Depth: Not **Depth:** 105.0 Water Quality: Not available available

Length: 196.0 Material: PVC Diameter: 6.0 Casing Material: PVC Screen Length: 22.0 Diameter: 6.0

Slot Size: 0.025

Well Capacity

Type of Test: Not available Test Rate: Not available Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 30.0 ft. Bailer Drawdown: Not available

Grouting Information

Material: BNSL **Depth:** From 0.0 To 165.0 **Installation Method: TREMIE** Number of Bags Used: 15.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH

Township: 37N Range: 2E

Section: SW of the NE of the SE of Section 16

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: DRILLER Field Located On: 9/17/2003

Courthouse Location On: Not available Courthouse Location By: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available

available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: 700.0 Ft N of SL: 1,800.0

Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 715.0 Depth of Bedrock: 230.0 **Bedrock Elevation:** 485.0 Aquifer Elevation: Not available

UTM Easting: 558682 **UTM Northing:** 4611497

Тор	Bottom	Formation
0.0	4.0	FILL
4.0	27.0	FN TO CRS GRAV FN TO CRS SAND
27.0	50.0	FN TO CRS SAND FN TO MED GRAV
50.0	75.0	FN TO MED SAND SOME GRAV
75.0	80.0	FN TO CRS SAND, FN TO MED GRAV
80.0	94.0	FN TO CRS GRAV
94.0	120.0	FN TO CRS GRAV W/SANDY GRY CLY
120.0	142.0	SANDY GRAY CLAY, SAND STRIPS
142.0	187.0	SILTY FN SAND
187.0	205.0	FN TO MED SAND
205.0	229.0	GRAVELLY GRAY CLAY
229.0	230.0	BLUE CLAY & SH
230.0	0.0	BLUE SH & DK GRAY SH

Comments FC ONLY; TW -03A

Reference **Driving Direction to Well Date Completed** Number

250' E OF OLIVE ST & 1250' S OF SAMPLE ST 378226 8/28/2003

Owner-Contractor Name Address **Telephone**

CITY OF SOUTH BEND WATER 830 NORTH MICHIGAN ST., SOUTH BEND, (574)235-5670 Owner

DEPT

55860 RUSSELL IND. PKWY., PEERLESS-MIDWEST INC. (574)254-9050

MISHAWAKA, IN Operator DOUGLAS GENTRY License: 1182

Construction Details

Driller

Well Use: Other **Drilling Method:** Rotary Pump Type: Not available

> Pump Setting Depth: Not **Depth:** 155.0 Water Quality: Not available available

Material: GALV PIPE Length: 153.0 Diameter: 2.0

Casing Material: SSWW Diameter: 2.0 Screen Length: 5.0

Slot Size: 0.010

Well Capacity Type of Test: Not available Test Rate: Not available Test

Bail Test Rate: Not available

Drawdown: Not available Static Water Level: Not available Bailer Drawdown: Not available

Grouting Material: BENT **Depth:** From 0.0 To 145.0 Information

> Number of Bags Used: Not available Installation Method: TREMMIE

Well Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Section: SW of the NW of the NE of Section 15 Range: 2E

Grant: Not available Topo Map: SOUTH BEND WEST

Field Located On: 8/28/2003

Field Located By: DRILLER

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available

Ft W of EL: 2.300.0 Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: 900.0

Ground Elevation: 716.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aquifer Elevation: 561.0

UTM Easting: 559789 **UTM Northing:** 4612329

Well Log

Тор	Bottom	Formation
0.0	3.0	FILL
3.0	15.0	SAND
15.0	42.0	S&G W/ROCKS
42.0	52.0	FN MED CRS SAND
52.0	61.0	S&G
61.0	73.0	FN TO MED SAND, SOME CRS SAND
73.0	104.0	FN TO MED SAND
104.0	114.0	FN MED CRS SAND
114.0	140.0	FN TO MED SAND SOME CS SAND
140.0	165.0	S&G W/ROCKS

Comments

MC561; TUX SITE MONITORING WELL; PMW14-155

1/14/2004

(574)233-3116

Record of Water Well **Indiana Department of Natural Resources**

Reference **Driving Direction to Well Date Completed** Number

150' N OF EMPLOYEE PARKING LOT & 25' W OF ELECTRIC SUBSTATION; 380191

WELL TW 04A

Owner-Contractor Name Telephone Address

NEW ENERGY COMPANY OF 3291 WEST CALVERT BOX 2289 SOUTH

INDIANA BEND IN

55860 RUSSELL INDUSTRIAL PARKWAY PEERLESS MIDWEST INC (574)254-9050

MISHAWAKA IN Operator BRUCE MCLEISH License: 1186

Construction Details

Owner

Driller

Well Use: Test Pump Type: Not available **Drilling Method:** Rotary

Pump Setting Depth: Not **Depth:** 93.0 Water Quality: Not available available

Length: 85.0 Material: PVC Casing Diameter: 6.0 Screen Length: 10.0 Material: PVC Diameter: 6.0

Slot Size: .020

Well Capacity

Type of Test: Pumping Test Rate: 254.0 gpm for 4.0 hrs. Bail Test Rate: Not available Test

> Drawdown: 20.0 ft. Static Water Level: 18.0 ft. Bailer Drawdown: Not available

Grouting Information

Material: BENTONITE **Depth:** From 0.0 To 76.0

> **Installation Method: TREMIE** Number of Bags Used: 24.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH

> Range: 2E Section: SW of Section 16

> Grant: Not available Topo Map: SOUTH BEND WEST

Field Located On: Not available Field Located By: Not available

Courthouse Location By: Not available Courthouse Location On: Not available

Township: 37N

Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available **UTM Easting:** Not available **UTM Northing:** Not available

Тор	Bottom	Formation
0.0	4.0	FILL
4.0	20.0	FN TO CS GRAVEL FN TO CS SANDW
20.0	26.0	FN TO CS GRAVEL FN TO CS SAND
26.0	48.0	FN TO CS SAND FN TO MED GRAVEL
48.0	53.0	FN TO CS SAND FN TO CS GRAVEL
53.0	69.0	FN TO CS GRAVE FN TO CS SAND
69.0	93.0	FN TO DS SAND FN TO MED GRAVEL
93.0	137.0	GRAVELLY CLAY W/GRAVEL STRIPS
137.0	154.0	SILT & SILTY CLAY
154.0	172.0	SILT SILTY FN SAND GRAVELLY CL
172.0	201.0	FN TO CS SAND FN TO MED GRAVEL

201.0	223.0	SANDY GRAVELLY CLAY
223.0	0.0	BLUE CLAY & SHALE

Comments STOPPED IN FROMATION

MISHAWAKA IN

Reference **Driving Direction to Well Date Completed** Number

381514 500' N OF CALVERT DR & 2000' W OF NEW ENERGY DR 2/13/2004

Owner-Contractor Name Address **Telephone** Owner **NEW ENERGY** PO BOX 2289 SOUTH BEND IN (574)233-3116 55860 RUSSELL INDUSTRIAL PKWY Driller PEERLESS MIDWEST INC (574)254-9050

Operator BRUCE MCLEISH RUSS BUCK License: 11860913

Construction Details

Well Use: Test **Drilling Method:** Reverse Rotary Pump Type: Submersible **Depth:** 202.0 Pump Setting Depth: 77.0 Water Quality: Not available

Diameter: 20.0 Casing Length: 174.0 Material: STEEL Material: SSWW Diameter: 20.0 Screen **Length: 15.0**

Slot Size: .030

Well Capacity

Test Rate: 1,786.0 gpm for 4.0 Type of Test: Air Bail Test Rate: Not available Test

> Drawdown: 39.7 ft. Static Water Level: 32.0 ft. Bailer Drawdown: Not available

Grouting Information

Material: NEAT CEMENT Depth: From 0.0 To 63.0

Installation Method: TREMMIE

EPIPE

Number of Bags Used: 195.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH

Township: 37N Section: SW of the NE of the SE of Section 16 Range: 2E

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: DRILLER Field Located On: 8/16/2004

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available

Ft W of EL: 725.0 Ft N of SL: 1,775.0 Ft E of WL: Not available Ft S of NL: Not available **Ground Elevation:** 715.0

Depth of Bedrock: Not available

Bedrock Elevation: Not available **Aguifer Elevation: 513.0 UTM Easting: 558682 UTM Northing:** 4611497

Тор	Bottom	Formation
0.0	4.0	FILL
4.0	11.0	FN CS GRVL FN CS SAND W/CLAY
11.0	22.0	FN CS GRVL ROCKS
22.0	32.0	FN CS SAND FN MED GRVL
32.0	51.0	FN CS SAND FN CS GRVL
51.0	60.0	FN CS SAND
60.0	79.0	FN SAND
79.0	97.0	FN VERY CS GRVL SOMEFN MED SAN
97.0	108.0	FN VERY CS GRVL SOME MED SAND
108.0	116.0	FN CS GRVL AND CLAY
116.0	119.0	VERY FN TO FN SAND SOME MED SA
119.0	121.0	FN MED SAND FN MED GRVL & CLAY
121.0	150.0	GRAVELLY CLAY SOME FN MED GRVL

150.0	159.0	FN SAND TRACES OF CLAY
159.0	169.0	FN SAND
169.0	187.0	FN MED SAND
187.0	188.0	GRAVELLY CLAY
188.0	192.0	FN MED SAND
192.0	202.0	FN MED SAND SOME FN GRVL

Comments SEE MAP; FC ONLY; BENSEAL 100 172

Reference **Driving Direction to Well Date Completed** Number

384054 25' NE OF WELL #3 & 40' S OF COOLING TOWERS 6/15/2004

Owner-Contractor Name Address **Telephone** Owner **NEW ENERGY CO OF INDIANA** PO BOX 2289, SOUTH BEND, IN (574)233-3116 55860 RUSSELL INDUSTRAIL PKWY., (574)254-9050 Driller PEERLESS-MIDWEST, INC

MISHAWAKA, IN **RUSS BUCK** License: 913 Operator

Construction Details

Well Use: Public Supply **Drilling Method:** Reverse Rotary Pump Type: Submersible Pump Setting Depth: 51.0 Water Quality: Not available **Depth:** 86.0

Length: 58.0 Material: STEEL Diameter: 16.0 Casing Material: SSWW Diameter: 16.0 Screen Length: 30.0

Slot Size: .055

Well Capacity **Test Rate:** 2,000.0 gpm for 4.0

Bail Test Rate: Not available Type of Test: Pumping Test

Drawdown: 27.0 ft. Static Water Level: 24.0 ft. Bailer Drawdown: Not available

Grouting **Material: NEAT CEMENT Depth:** From 12.0 To 38.0 Information

> **Installation Method: TREMIE PIPE** Number of Bags Used: 120.0

Well Sealing Material: Not available

Depth: From (not available) To (not available) **Abandonment**

> Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SW of the NE of the SE of Section 16

Topo Map: SOUTH BEND WEST **Grant:** Not available Field Located On: 1/6/2005

Field Located By: DRILLER

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: 1,100.0 Ft N of SL: 1,500.0 Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: 716.0 Depth of Bedrock: Not available

Bedrock Elevation: Not available Aguifer Elevation: 630.0 **UTM Northing: 4611397** UTM Easting: 558588

Well Log

Тор	Bottom	Formation
0.0	4.0	F-M SAND
4.0	21.0	F-M SAND, SOME COARSE SAND & G
21.0	35.0	F-M-C SAND & GRAVEL
35.0	45.0	C-SAND & GRAVEL SOME F-M SAND
45.0	55.0	VERY COARSE SAND SOME FINE TO
55.0	62.0	COARSE SAND & GRAVEL SOME FINE
62.0	86.0	GRAVEL & COARSE SAND, SOME M-S
86.0		SANDY GRAVELLY TAN CLAY

Comments

Reference **Driving Direction to Well Date Completed** Number

IN BELLVILLE PARK APPROX 550'S OF ENTRANCE TO PARK ON W SIDE OF 401261 11/2/1993

EVERGREEN LANE

Owner-Contractor Name Telephone Address Owner SOUTH BEND WATER WORKS 224 NORTH MAIN ST SOUTH BEND, IN (219)235-9448

Driller ORTMAN DRILLING, INC. 241N CO RD 300W KOKOMO, IN (317)459-4125

Operator RICK O STEVE M MIKE K License: 330

Construction Details

Well Use: Test **Drilling Method:** Rotary Pump Type: Not available

Pump Setting Depth: Not **Depth: 213.0** Water Quality: Not available available

Length: 200.0 Material: PVC Diameter: 4.0 Casing Material: PVC Screen Length: 3.0 Diameter: 4.0

Slot Size: .040

Well Capacity

Type of Test: Air Test Rate: 20.0 gpm Bail Test Rate: Not available Test

Drawdown: Not available Static Water Level: 5.5 ft. Bailer Drawdown: Not available

Grouting Information

Material: BENSEAL **Depth:** From 160.0 To 0.0

Installation Method: Not available Number of Bags Used: 11.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) **Abandonment**

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH

Range: 2E

Topo Map: SOUTH BEND WEST Field Located By: Not available

Courthouse Location By: Not available

Location Accepted w/o Verification By: Not

available

Subdivision Name: Not available Ft W of EL: Not available

Ft E of WL: Not available

Ground Elevation: Not available Bedrock Elevation: Not available **UTM Easting:** Not available

Township: 37N

Section: NE of Section 17 Grant: Not available

Field Located On: Not available

Courthouse Location On: Not available Location Accepted w/o Verification On: Not

available

Lot Number: Not available Ft N of SL: Not available Ft S of NL: Not available

Depth of Bedrock: Not available Aquifer Elevation: Not available **UTM Northing:** Not available

Well Log Comments None

Reference **Driving Direction to Well Date Completed** Number

401265 IN BELLVILLE PARK APPROX 550'S AND 225'W OF ENTRANCE TO PARK 11/3/1993

Owner-Contractor Name Address Telephone Owner SOUTH BEND WATER WORKS 224 NORTH MAIN ST SOUTH BEND, IN (219)235-9448 Driller ORTMAN DRILLING, INC. 241N CO RD 300W KOKOMO, IN (317)459-4125

RICK O MIKE K STEVE M Operator License: 330

Construction Details

Well Use: Test **Drilling Method:** Rotary Pump Type: Not available

Pump Setting Depth: Not **Depth: 203.0** Water Quality: Not available available

Length: 186.5 Material: PVC Diameter: 4.0 Casing Material: PVC Diameter: 4.0 Screen Length: 3.5

Slot Size: .040

Well Capacity

Type of Test: Air Test Rate: 50.0 gpm Bail Test Rate: Not available Test

> Drawdown: Not available Static Water Level: 7.5 ft. Bailer Drawdown: Not available

Grouting Material: BENSEAL **Depth:** From 150.0 To 0.0 Information

> Installation Method: Not available Number of Bags Used: 14.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of Section 17

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log Comments

Reference **Driving Direction to Well Date Completed** Number

401269 AT ENTRANCE TO BELLVILLE PARK APPROX 60'S AND 15'E OF SIGN 11/8/1993

Owner-Contractor Name Address Telephone Owner SOUTH BEND WATER WORKS 224 NORTH MAIN ST SOUTH BEND, IN (219)235-9448 Driller ORTMAN DRILLING, INC. 241N CO RD 300W KOKOMO, IN (317)459-4125

Operator RICK O LEONARD F MIKE K License: 330 1035

Construction Details

Well Use: Test **Drilling Method:** Rotary Pump Type: Not available

Pump Setting Depth: Not **Depth:** 165.0 Water Quality: Not available available

Length: 148.0 Material: PVC Diameter: 4.0 Casing Material: PVC Diameter: 4.0 Screen Length: 3.5

Slot Size: .040

Well Capacity

Bail Test Rate: Not available Type of Test: Air Test Rate: 40.0 gpm Test

> Drawdown: Not available Static Water Level: 9.0 ft. Bailer Drawdown: Not available

Grouting Material: BENSEAL **Depth:** From 120.0 To 0.0 Information

> Installation Method: Not available Number of Bags Used: 11.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of Section 17

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available Lot Number: Not available Ft W of EL: Not available Ft N of SL: Not available

Ft E of WL: Not available Ft S of NL: Not available Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available

UTM Easting: Not available **UTM Northing:** Not available

Well Log Comments

Reference Driving Direction to Well Date Completed

401273 IN BELLVILLE PARK APPROX 18'E OF TW #2 11/5/1993

Owner-Contractor NameAddressTelephoneOwnerSOUTH BEND WATER WORKS224 NORTH MAIN ST SOUTH BEND, IN
241N 300W KOKOMO, IN(219)235-9448

Operator RICK O MIKE K STEVE M License: 330

Construction Details

Well Use: Test Drilling Method: Rotary Pump Type: Not available

Depth: 192.0 **Pump Setting Depth:** Not available **Water Quality:** Not available

Casing Length: 184.0 Material: STEEL Diameter: 8.0 Screen Length: 10.0 Material: PVC Diameter: 8.0

Slot Size: .050

Well Capacity

Test Type of Test: Air Test Rate: 300.0 gpm Bail Test Rate: Not available

Drawdown: Not available **Static Water Level:** 7.5 ft. **Bailer Drawdown:** Not available

Grouting Material: BENSEAL Depth: From 110.0 To 0.0

Installation Method: Not available **Number of Bags Used:** 16.0

Well

Abandonment Sealing Material: Not available Depth: From (not available) To (not available)

Installation Method: Not available Number of Bags Used: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: NE of Section 17

Topo Map: SOUTH BEND WEST Grant: Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available
Location Accepted w/o Verification By: Not
Location Accepted w/o Verification On: Not

available available

Subdivision Name: Not available

Ft W of EL: Not available

Ft E of WL: Not available

Ft S of NL: Not available

Ground Elevation: Not available

Bedrock Elevation: Not available

UTM Easting: Not available

UTM Northing: Not available

Well Log Comments

Reference **Driving Direction to Well Date Completed** Number

405608 LOT 3 MATTHY'S OLIVE RD MINOR 57760 OLIVE RD SOUTH BEND, IN 46619 8/6/2007

Owner-Contractor Name Address Telephone HARRISON RD DEVELOPMENT 57760 OLIVE RD SOUTH BEND, IN (574)532-1530 Owner

4246 MEGHAN BEELER CT SOUTH BEND, (574)232-1006 Driller TATAY WELL DRILLING

RANDY YOUNG License: 282 Operator

Construction Details

Well Use: Home **Drilling Method:** Rotary Pump Type: Submersible **Depth:** 55.0 Pump Setting Depth: 40.0 Water Quality: CLEAR

Material: PVC Length: 50.0 Diameter: 4.0 Casing Material: Not available Diameter: 4.0 Screen Length: 5.0

Slot Size: .018

Well Capacity

Type of Test: Air Test Rate: 40.0 gpm for 1.0 hrs. Bail Test Rate: Not available Test

> Drawdown: 5.0 ft. Static Water Level: 22.0 ft. Bailer Drawdown: Not available

Grouting Material: BENSEAL **Depth:** From 0.0 To 40.0 Information

> Installation Method: PRESSURE Number of Bags Used: 3.0

Well

Sealing Material: Not available **Depth:** From (not available) To (not available) Abandonment

> Number of Bags Used: Not available Installation Method: Not available

Administrative County: ST. JOSEPH Township: 37N

Range: 2E Section: SW of Section 15

Topo Map: SOUTH BEND WEST **Grant:** Not available

Field Located By: Not available Field Located On: Not available

Courthouse Location By: Not available Courthouse Location On: Not available Location Accepted w/o Verification By: Not Location Accepted w/o Verification On: Not

available available

Subdivision Name: MATTHY'S OLIVE RD MINOR Lot Number: 3

Ft W of EL: Not available Ft N of SL: Not available Ft E of WL: Not available Ft S of NL: Not available

Ground Elevation: Not available Depth of Bedrock: Not available Bedrock Elevation: Not available **Aguifer Elevation:** Not available **UTM Easting:** Not available **UTM Northing:** Not available

Well Log Comments