

Rev. 1/16

Site Name: LFAKE	Date	Date of Field Work: 15-aug-12							
Party Chief: Eban	Field Book: SC	Field Book: SCADA 8							
Site Benchmarks:	Benchmark Ele	Benchmark Elevation (NAVD88		Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29)					
X505 (AJ6638)		57.461 (17.514	57.461 (17.514m)		X505 +1.204				
POF27BM		61.651 (Stam	61.651 (Stamped 61.68)		27	+1.2	04		
POF28 BM		62.586 (Stamp	62.586 (Stamped 62.62)			+1.2	.204		
Reference Elevation(s)			Existing Ta	xisting Tag Elevation (Datum):			Calibration Port Elevation(s) (NAVD88):		
Well	NAVD88	NGVD29 (Tagged)	None				Not Applicable		
POF27L (GW1)	64.48	65.68	None						
POF27U (GW2)	63.81	65.01	None						
POF28U (GW3)	64.611	65.815	None						
POF28L (GW4)	65.281	66.485							
Ground Elevation		Pad Elevation (NAVD88): Not Available							

Well Latitude: Longitude:

27° 58' 36.68"N 81° 22' 21.21"W

POF 28 27° 58′ 36.17″N 81° 22′ 20.32"W (taken from Google Earth)

Notes:

POF 27

NAVD88 – North American Vertical Datum of 1988

NGVD29- National Geodetic Vertical Datum of 1929

Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

PICTURES



Looking Southwesterly (Not to Scale)

(SCADA photo dated 03-may-12)



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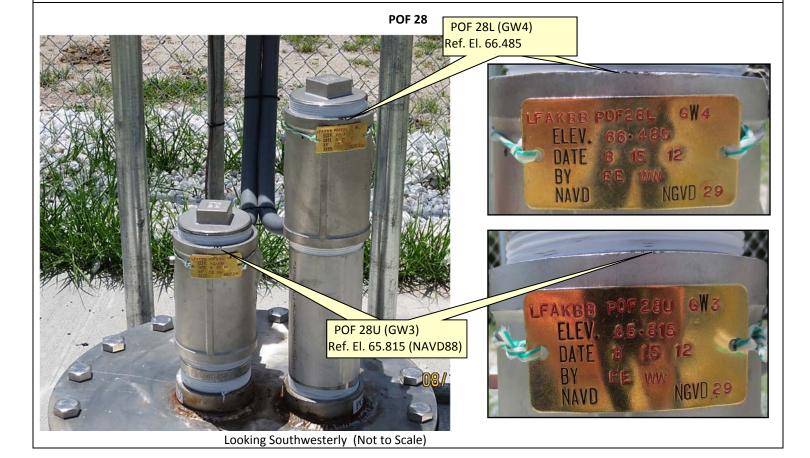
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Looking Southwesterly (Not to Scale) (SCADA Photo 19-dec-13 Well head revised)





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Looking Northwesterly

NGS X505 (AJ6638)

El. 57.461 (17.514m) NAVD88

El. 58.66 NGVD29 (FLDEP)

El. 58.674 NGVD29 (Corpscon 6.0.1) (NAVD88 +1.204)



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(10 SCAD	A pB#08	8-15-1	hutth 85±08 8-15-126						
	WP 29 Rge 29	Wie	kins	57A +	24- +4.1,	Lovels C	onth Felow Remon		
	Vest Side C-37			Well #27bM	68 91	6.05	6286		
5TA +	-H.J., -	Feleu	Romarks	17F 28U		3.09	6582		
	60.5v	53,66	God.	POF 28 L		2 475	66 485		
7	0:20	60.32		wat site Bm.		15.12	63 79		
7.26	6158			' 1P.		4375	64.535		
TP.	3,05	6453			67.635				
4.65	1.9.18		600 bcass Districtural (63,83)	TP.		7.28	60:355		
weu * 28 Bm	5.395		THE STATE OF THE S	0.61	60.965				
POF 28 L POF 28 U. WEN # 27 BM.	2 695 2 3 365 6 33	66:485 65:815 62:85		8m X-505		2.31	58-655 (58-6		
POF 2715 POF 274	√ 350 √ 4.17	65.68 65.01	HI HI						
f0627 u. 3.90	68.91	10K: 69				5			

DATASHEETS Page 1 of 2

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.9.1
1 National Geodetic Survey, Retrieval Date = OCTOBER 2, 2016
AJ6638 DESIGNATION - X 505
AJ6638 PID
              - AJ6638
AJ6638 STATE/COUNTY- FL/POLK
AJ6638 COUNTRY - US
AJ6638 USGS QUAD - LAKE WEOHYAKAPKA NE (1972)
AJ6638
AJ6638
                              *CURRENT SURVEY CONTROL
AJ6638
AJ6638* NAD 83(1986) POSITION- 27 58 31. (N) 081 22 11.
                                                            (W)
                                                                  SCALED
AJ6638* NAVD 88 ORTHO HEIGHT - 17.514 (meters) 57.46 (feet) ADJUSTED
AJ6638
AJ6638 GEOID HEIGHT -
                               -27.271 (meters)
                                                                  GEOID12B
                               17.488 (meters)
AJ6638 DYNAMIC HEIGHT -
                                                     57.38 (feet) COMP
AJ6638 MODELED GRAVITY - 979,148.3 (mgal)
                                                                  NAVD 88
AJ6638
AJ6638 VERT ORDER
                   - SECOND CLASS I
AJ6638
AJ6638. The horizontal coordinates were scaled from a topographic map and have
AJ6638.an estimated accuracy of \pm 6 seconds.
AJ6638.
AJ6638. The orthometric height was determined by differential leveling and
AJ6638.adjusted by the NATIONAL GEODETIC SURVEY
AJ6638.in April 2004.
AJ6638
AJ6638. Significant digits in the geoid height do not necessarily reflect accuracy.
AJ6638.GEOID12B height accuracy estimate available here.
AJ6638
AJ6638. The dynamic height is computed by dividing the NAVD 88
AJ6638.geopotential number by the normal gravity value computed on the
AJ6638. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ6638.degrees latitude (g = 980.6199 \text{ gals.}).
AJ6638. The modeled gravity was interpolated from observed gravity values.
AJ6638
AJ6638;
                          North
                                       East
                                             Units Estimated Accuracy
AJ6638; SPC FL W - 403,630.
                                    262,010.
                                                 MT (+/-180 \text{ meters Scaled})
AJ6638
AJ6638
                               SUPERSEDED SURVEY CONTROL
AJ6638
AJ6638.No superseded survey control is available for this station.
AJ6638
AJ6638 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML636945 (NAD 83)
AJ6638 MARKER: DD = SURVEY DISK
AJ6638 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ6638 STAMPING: X 505 2001
AJ6638 MARK LOGO: FLDEP
AJ6638 MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
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DATASHEETS Page 2 of 2

AJ6638 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AJ6638+STABILITY: SURFACE MOTION AJ6638 SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR AJ6638+SATELLITE: SATELLITE OBSERVATIONS - 2001 AJ6638 AJ6638 HISTORY - Date Condition AJ6638 HISTORY - 2001 MONUMENTED Report By MONUMENTED FLDEP AJ6638 AJ6638 STATION DESCRIPTION AJ6638 AJ6638'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM) AJ6638'THE MARK IS ABOUT 18.0 MI (29.0 KM) EAST-NORTHWEST OF LAKE WALES, IN AJ6638'SECTION 12, TOWNSHIP 29 SOUTH, RANGE 29 EAST. TO REACH THE MARK FROM AJ6638'THE INTERSECTION OF STATE ROAD 27 AND STATE ROAD 60 IN LAKE WALES, GO AJ6638'EAST-SOUTHEAST ON STATE ROAD 60 FOR 7.3 MI (11.7 KM) TO THE JUNCTION AJ6638'OF MAMMOTH GROVE ROAD ON THE LEFT, TURN LEFT ON MAMMOTH GROVE ROAD AND AJ6638'GO NORTH FOR 2.05 MI (3.30 KM) TO THE JUNCTION OF CAMP MACK ROAD ON AJ6638'THE RIGHT, TURN RIGHT ON CAMP MACK ROAD AND GO NORTH FOR 0.25 MI (0.40 AJ6638'KM) TO A CURVE EAST, CONTINUE EAST ON CAMP MACK ROAD FOR 2.3 MI (3.7 AJ6638'KM) TO THE JUNCTION OF BARNEY KEEN ROAD (BOY SCOUT ROAD) ON THE RIGHT, AJ6638'CONTINUE NORTHEASTERLY ON CAMP MACK ROAD FOR 5.35 MI (8.61 KM) TO THE AJ6638'ENTRANCE TO LAKE KISSIMMEE STATE PARK ON THE RIGHT, CONTINUE NORTH ON AJ6638'CAMP MACK ROAD FOR 0.1 MI (0.2 KM) TO THE JUNCTION OF A SAND ROAD ON AJ6638'THE RIGHT, TURN RIGHT ON THE SAND ROAD AND GO NORTHEAST FOR 75.0 FT AJ6638'(22.9 M) TO A LOCKED GATE, CONTINUE NORTHEAST ON THE SAND ROAD FOR AJ6638'0.35 MI (0.56 KM) TO A Y-JUNCTION, CONTINUE NORTHEAST ON THE SAND ROAD AJ6638'FOR 0.25 MI (0.40 KM) TO THE SOUTHWEST END OF A BRIDGE (SPANNING AJ6638'KISSIMMEE RIVER CANAL) AND THE MARK ON THE LEFT SET IN THE TOP OF A AJ6638'ROUND CONCRETE MONUMENT RECESSED 0.3 FT (9.1 CM) BELOW THE LEVEL OF AJ6638'THE GROUND AND 3.0 FT (0.9 M) BELOW THE LEVEL OF THE SAND ROAD. AJ6638'LOCATED 67.7 FT (20.6 M) WEST OF THE SOUTHWEST END OF A BRIDGE, 63.1 AJ6638'FT (19.2 M) NORTHWEST OF THE APPROXIMATE CENTERLINE OF THE DIRT ROAD, AJ6638'39.0 FT (11.9 M) NORTH OF POWER POLE NUMBER 21893 WITH 2 GUY WIRES AJ6638'ATTACHED, 31.5 FT (9.6 M) SOUTHWEST OF THE APPROXIMATE CENTERLINE OF A AJ6638'ROAD ALONG THE CANAL, 19.5 FT (5.9 M) NORTHEAST OF THE WEST FENCE AJ6638'CORNER, 1.2 FT (0.4 M) NORTHWEST OF A CARSONITE WITNESS POST AND 1.0 AJ6638'FT (0.3 M) NORTHWEST OF A BARBWIRE FENCE. NOTE A BAR MAGNET WAS AJ6638'IMBEDDED IN THE MONUMENT ON THE SOUTH SIDE, 0.2 FT (6.1 CM) BELOW THE AJ6638'TOP OF THE MONUMENT. NOTE FOR KEY CONTACT SOUTH FLORIDA WATER AJ6638'MANAGEMENT DISTRICT, PHONE NUMBER 561-686-8800.

*** retrieval complete. Elapsed Time = 00:00:02

Office

Project

3 October 2016

INPUT

Geographic, flhpgn - Florida HPGN Vertical - NAVD88, U.S. Feet

OUTPUT

State Plane, flhpgn - Florida HPGN 0901 - Florida East, U.S. Feet Vertical - NGVD29 (Custom), U.S. Feet

POF27

1/4

Latitude: 27 58 36.68 Longitude: 81 22 21.21

Elevation/Z: 0

Easting/X: 535919.696

Elevation/Z: 1.204

Convergence: -0 10 29.18857 **Scale Factor:** 0.999957750

Northing/Y: 1324473.030

Combined Factor: 0.999961969

POF28

2/4

Latitude: 27 58 36.17 Longitude: 81 22 20.32

Northing/Y: 1324421.282 Easting/X: 535999.333

Elevation/Z: 1.204

Convergence: -0 10 28.76811 Scale Factor: 0.999957728

Combined Factor: 0.999961947

POS14

3/4

Latitude: 27 58 34.43 Longitude: 81 22 17.39

Elevation/Z: 0

Elevation/Z: 0

Northing/Y: 1324244.760 Easting/X: 536261.492

Elevation/Z: 1.204

Convergence: -0 10 27.38361 **Scale Factor:** 0.999957656

Combined Factor: 0.999961875

POF29

4/4

Latitude: 27 58 34.61 Longitude: 81 22 17.73

Elevation/Z: 0

Northing/Y: 1324263.031 Easting/X: 536231.064

Elevation/Z: 1.204

Convergence: -0 10 27.54414 **Scale Factor:** 0.999957665 **Combined Factor:** 0.999961883

Remark: