

Drift-PacTM

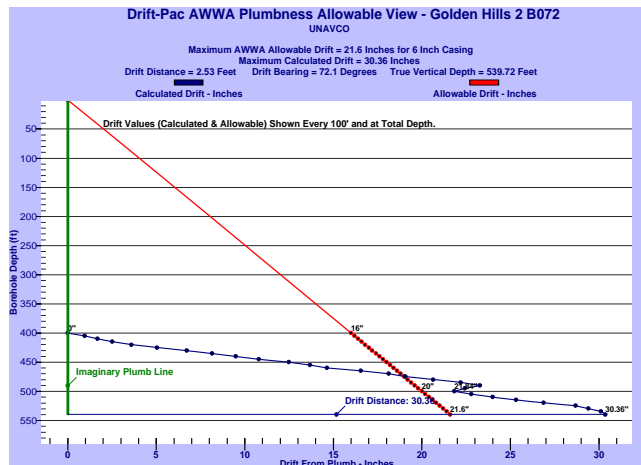
Wellbore DRIFT Interpretation Package

PREPARED ESPECIALLY FOR

UNAVCO

Golden Hills 2 B072

August 23, 2007



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Wellbore Drift Interpretation

Company: UNAVCO County: San Luis Obispo State: California
 Well Number: Golden Hills 2 B072 Well Owner: _____ Survey Date: August 23, 2007 Magnetic Declination: Not Used
 Field: _____ Operator: Mitch Tullis Casing Size: 6"
 Van No.: L-18 Job Ticket: 7826 Welenco Office: Bakersfield, CA. Witness: Sarah Venator
 Location: _____
 Remarks: Deviation computed from BHTV Tool Type: Compass Tool No.: BHTV
 Methodology: Balanced Tangential Lat.: _____ Long.: _____ Sec: _____ Twp: _____ Rge: _____ Meridian: _____

Measured Data			Drift Computations				Rectangular Computations			
Depth, Feet	Inclination, Degrees From Vertical	Azimuth, Degrees, True	Course Deviation, Feet	True Vertical Depth, Feet	Drift Distance, Feet	Drift Bearing, Degrees, True	Latitude, Feet	Departure, Feet	Total Latitude, Feet	Total Departure, Feet
400'	1.24°	166°	0.00'	400.00'	0.00' (.00")	00.00°	.00'	0.00'	.00'	0.00'
405'	0.91°	112°	0.08'	404.99'	0.08' (.96")	143.50°	-.07'	0.05'	-.07'	0.05'
410'	1.02°	060°	0.08'	409.98'	0.14' (1.68")	115.40°	.01'	0.08'	-.06'	0.13'
415'	1.06°	073°	0.09'	414.97'	0.21' (2.52")	96.70°	.04'	0.08'	-.02'	0.21'
420'	1.37°	060°	0.11'	419.96'	0.30' (3.60")	86.30°	.04'	0.10'	.02'	0.30'
425'	1.57°	059°	0.13'	424.95'	0.42' (5.04")	78.50°	.07'	0.11'	.08'	0.41'
430'	1.58°	067°	0.14'	429.94'	0.56' (6.72")	74.70°	.06'	0.12'	.15'	0.54'
435'	1.41°	066°	0.13'	434.93'	0.68' (8.16")	73.20°	.05'	0.12'	.20'	0.66'
440'	1.09°	056°	0.11'	439.92'	0.79' (9.48")	71.60°	.05'	0.10'	.25'	0.75'
445'	1.40°	052°	0.11'	444.91'	0.90' (10.80")	69.50°	.06'	0.09'	.31'	0.84'
450'	1.85°	075°	0.14'	449.90'	1.04' (12.48")	68.90°	.06'	0.13'	.37'	0.97'
455'	0.66°	077°	0.11'	454.89'	1.14' (13.68")	69.60°	.03'	0.11'	.40'	1.07'
460'	1.60°	017°	0.09'	459.88'	1.22' (14.64")	67.10°	.07'	0.05'	.47'	1.12'
465'	2.65°	067°	0.17'	464.87'	1.38' (16.56")	64.90°	.11'	0.13'	.58'	1.25'
470'	0.51°	053°	0.14'	469.86'	1.51' (18.12")	64.90°	.06'	0.12'	.64'	1.37'
475'	1.36°	073°	0.08'	474.85'	1.59' (19.08")	65.00°	.03'	0.08'	.67'	1.45'
480'	1.63°	083°	0.13'	479.84'	1.72' (20.64")	66.00°	.03'	0.13'	.70'	1.57'
485'	1.76°	024°	0.13'	484.83'	1.85' (22.20")	65.10°	.08'	0.10'	.78'	1.68'
490'	1.10°	113°	0.09'	489.82'	1.94' (23.28")	64.60°	.05'	0.08'	.83'	1.75'
495'	3.14°	204°	0.14'	494.81'	1.87' (22.44")	68.50°	-.14'	-0.01'	.69'	1.74'
500'	1.46°	116°	0.15'	499.80'	1.82' (21.84")	73.00°	-.15'	0.00'	.53'	1.74'
505'	0.85°	106°	0.10'	504.79'	1.90' (22.80")	74.90°	-.04'	0.09'	.50'	1.83'
510'	1.66°	097°	0.11'	509.78'	2.00' (24.00")	76.20°	-.02'	0.11'	.48'	1.94'
515'	1.06°	059°	0.11'	514.77'	2.11' (25.32")	76.50°	.02'	0.11'	.49'	2.05'
520'	2.00°	080°	0.13'	519.76'	2.24' (26.88")	76.30°	.04'	0.13'	.53'	2.18'
525'	2.07°	028°	0.16'	524.75'	2.39' (28.68")	74.80°	.10'	0.13'	.63'	2.31'
530'	0.30°	178°	0.08'	529.74'	2.45' (29.40")	73.60°	.07'	0.04'	.69'	2.35'

Page No. 1 TVD: 539.72' Final Drift Distance: 2.53' (30.36") Final Drift Bearing: 72.10°

Note: Magnetic Declination is not used because it is not a factor in the calculation of well drift or alignment. Magnetic Declination is only important if attempting to hit a target or miss another well and then it is included in the calculations.

Wellbore Drift Interpretation

Company: <u>UNAVCO</u>	County: <u>San Luis Obispo</u>	State: <u>California</u>
Well Number: <u>Golden Hills 2 B072</u>	Well Owner: _____	Survey Date: <u>August 23, 2007</u>
Field: _____	Operator: <u>Mitch Tullis</u>	Magnetic Declination: <u>Not Used</u>
Van No.: <u>L-18</u>	Job Ticket: <u>7826</u>	Casing Size: <u>6"</u>
Location: _____	Welenco Office: <u>Bakersfield, CA.</u>	Witness: <u>Sarah Venator</u>
Remarks: <u>Deviation computed from BHTV</u>	Tool Type: <u>Compass</u>	Tool No.: <u>BHTV</u>
Methodology: <u>Balanced Tangential</u>	Lat.: _____	Long.: _____
	Sec: _____	Twp: _____
	Rge: _____	Meridian: _____

Measured Data			Drift Computations				Rectangular Computations			
Depth, Feet	Inclination, Degrees From Vertical	Azimuth, Degrees, True	Course Deviation, Feet	True Vertical Depth, Feet	Drift Distance, Feet	Drift Bearing, Degrees, True	Latitude, Feet	Departure, Feet	Total Latitude, Feet	Total Departure, Feet
535'	1.45°	059°	0.06'	534.73'	2.51' (30.12")	73.50°	.02'	0.06'	.71'	2.41'
540'	1.48°	301°	0.07'	539.72'	2.53' (30.36")	72.10°	.07'	0.00'	.78'	2.40'

Note: Magnetic Declination is not used because it is not a factor in the calculation of well drift or alignment. Magnetic Declination is only important if attempting to hit a target or miss another well and then it is included in the calculations.

Drift-Pac Plan View - Golden Hills 2 B072

UNAVCO

Drift Distance = 2.53 Feet

Drift Bearing = 72.1 Degrees

True Vertical Depth = 539.72 Feet



Date of Survey: August 23, 2007

Balanced Tangential Calculation Method

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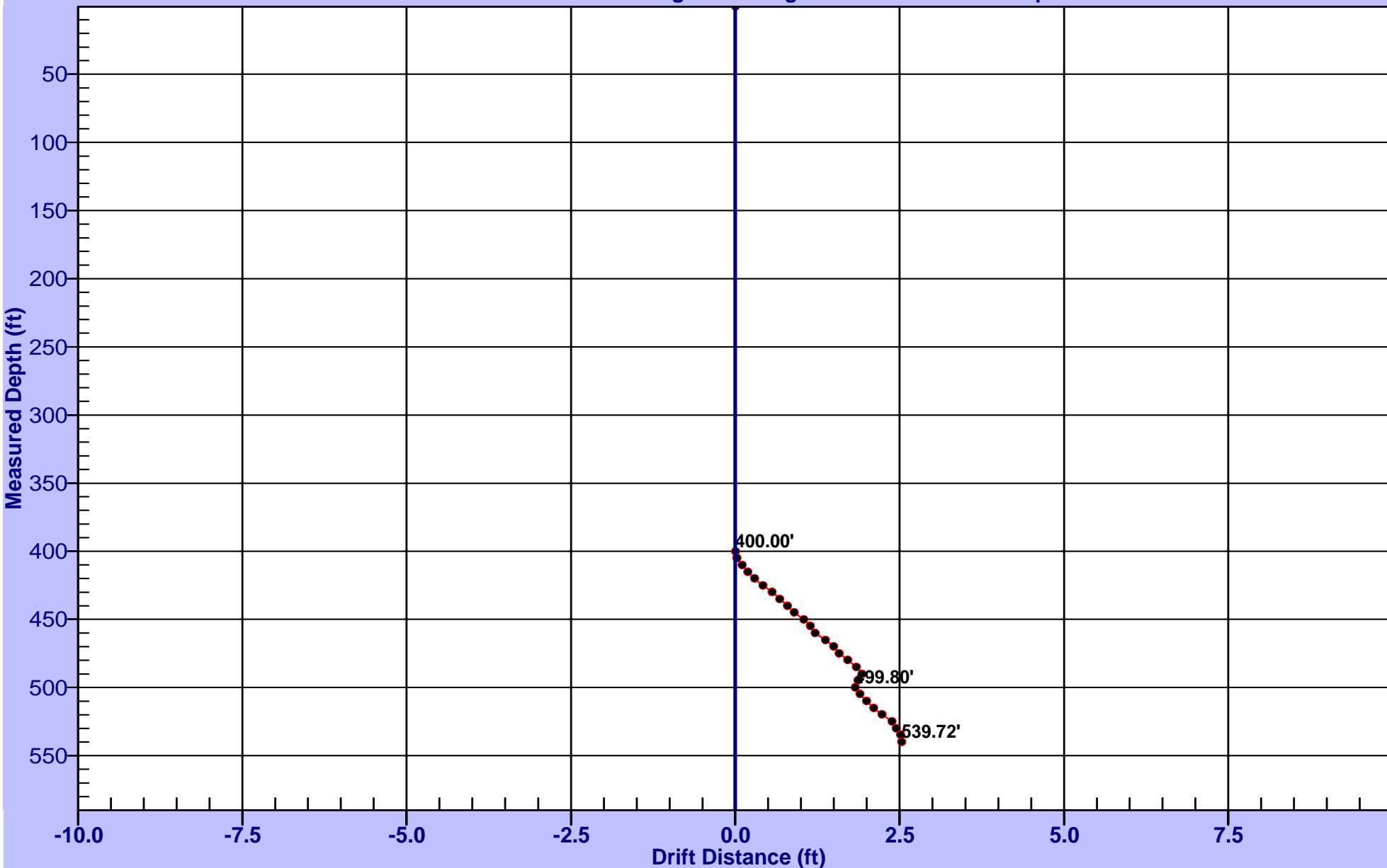
Drift-Pac Plane of Drift View - Golden Hills 2 B072

UNAVCO

Drift Distance = 2.53 Feet

Drift Bearing = 72.1 Degrees

True Vertical Depth = 539.72 Feet



Date of Survey: August 23, 2007

Balanced Tangential Calculation Method

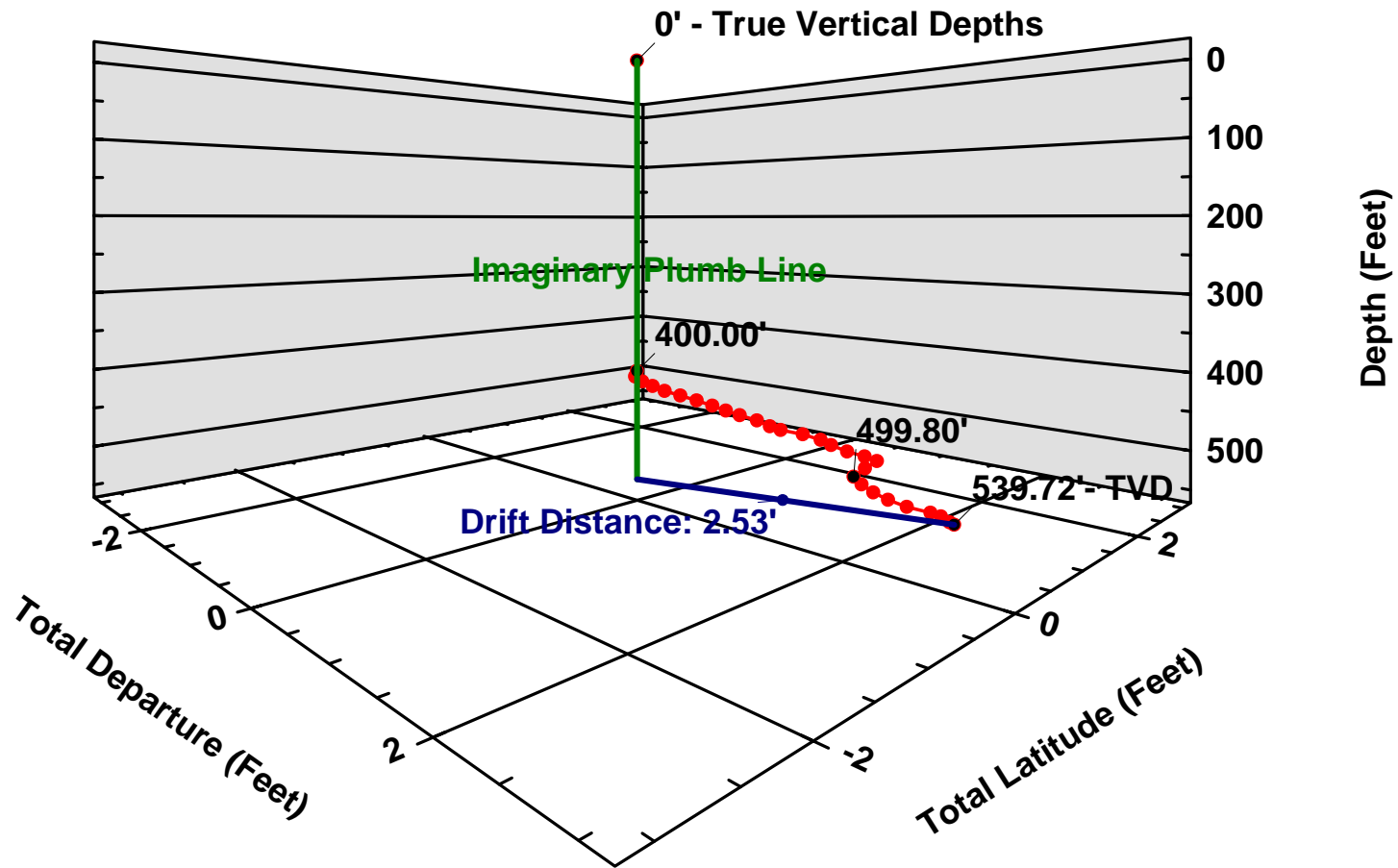
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Drift-Pac 3-D Projection View - Golden Hills 2 B072

UNAVCO

Drift Distance = 2.53 Feet Drift Bearing = 72.1 Degrees True Vertical Depth = 539.72 Feet

226.0



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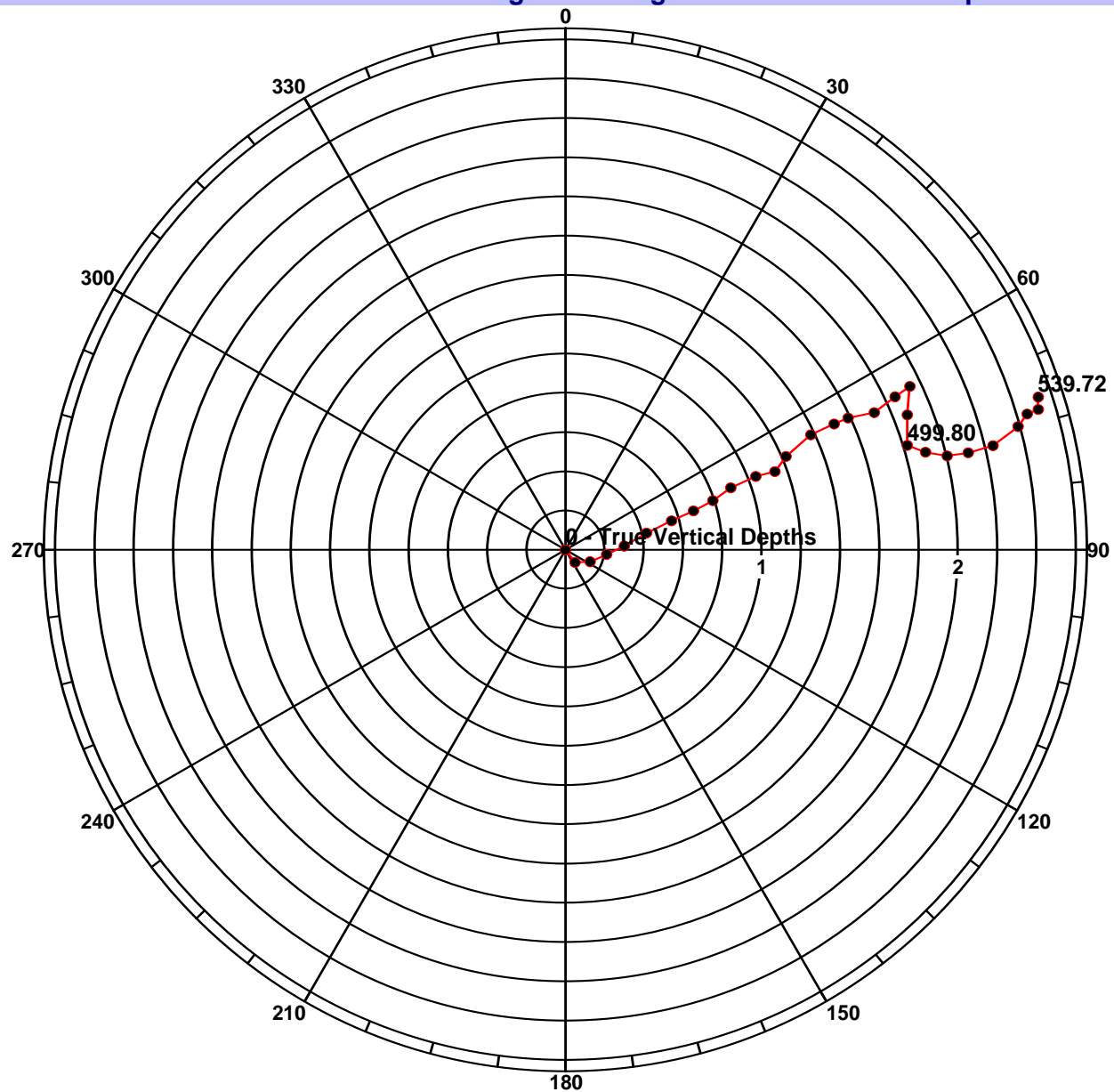
Balanced Tangential Calculation Method

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Drift-Pac Polar View - Golden Hills 2 B072

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Drift Distance = 2.53 Feet Drift Bearing = 72.1 Degrees True Vertical Depth = 539.72 Feet



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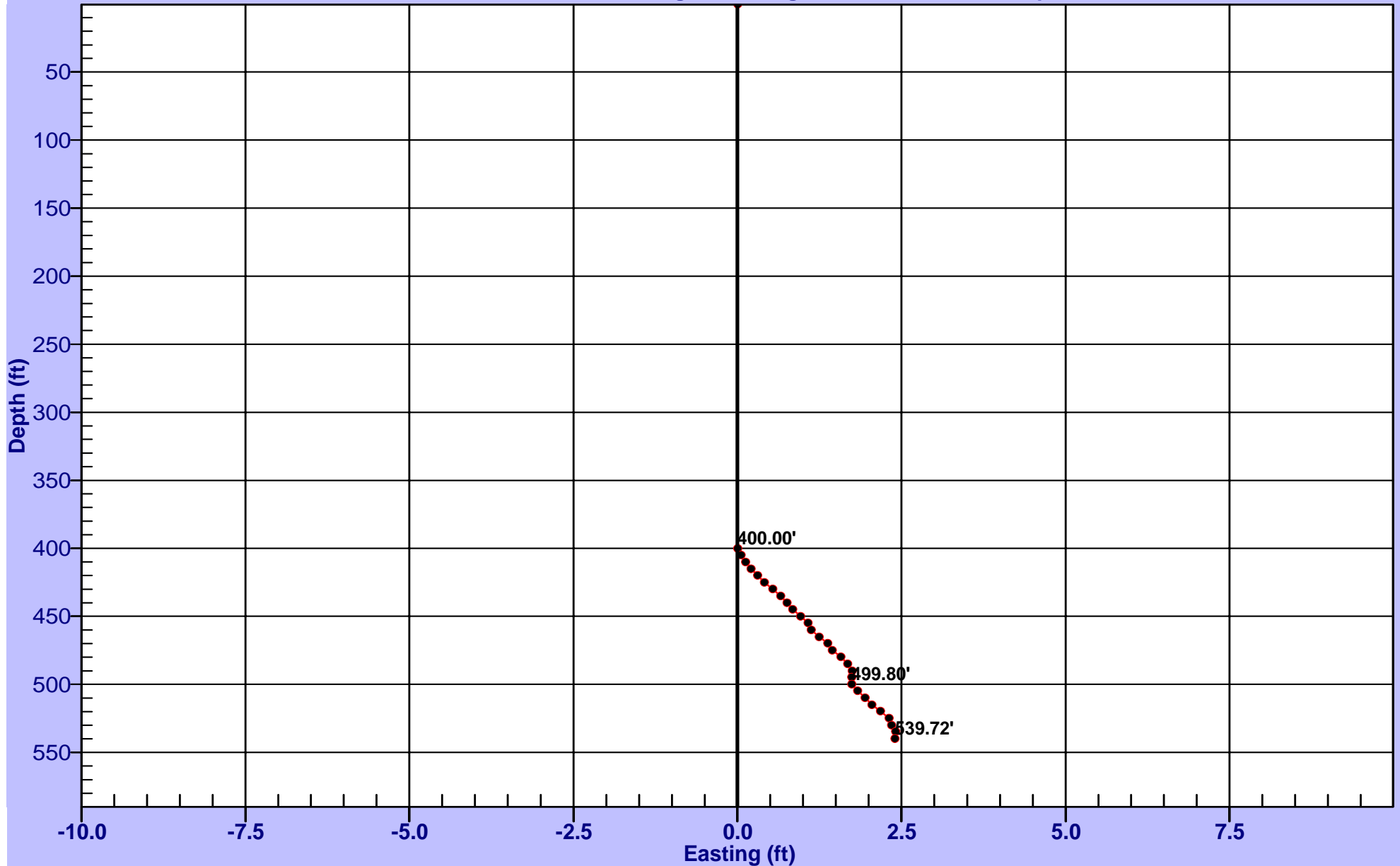
Drift-Pac Easting Rectangular View - Golden Hills 2 B072

UNAVCO

Drift Distance = 2.53 Feet

Drift Bearing = 72.1 Degrees

True Vertical Depth = 539.72 Feet



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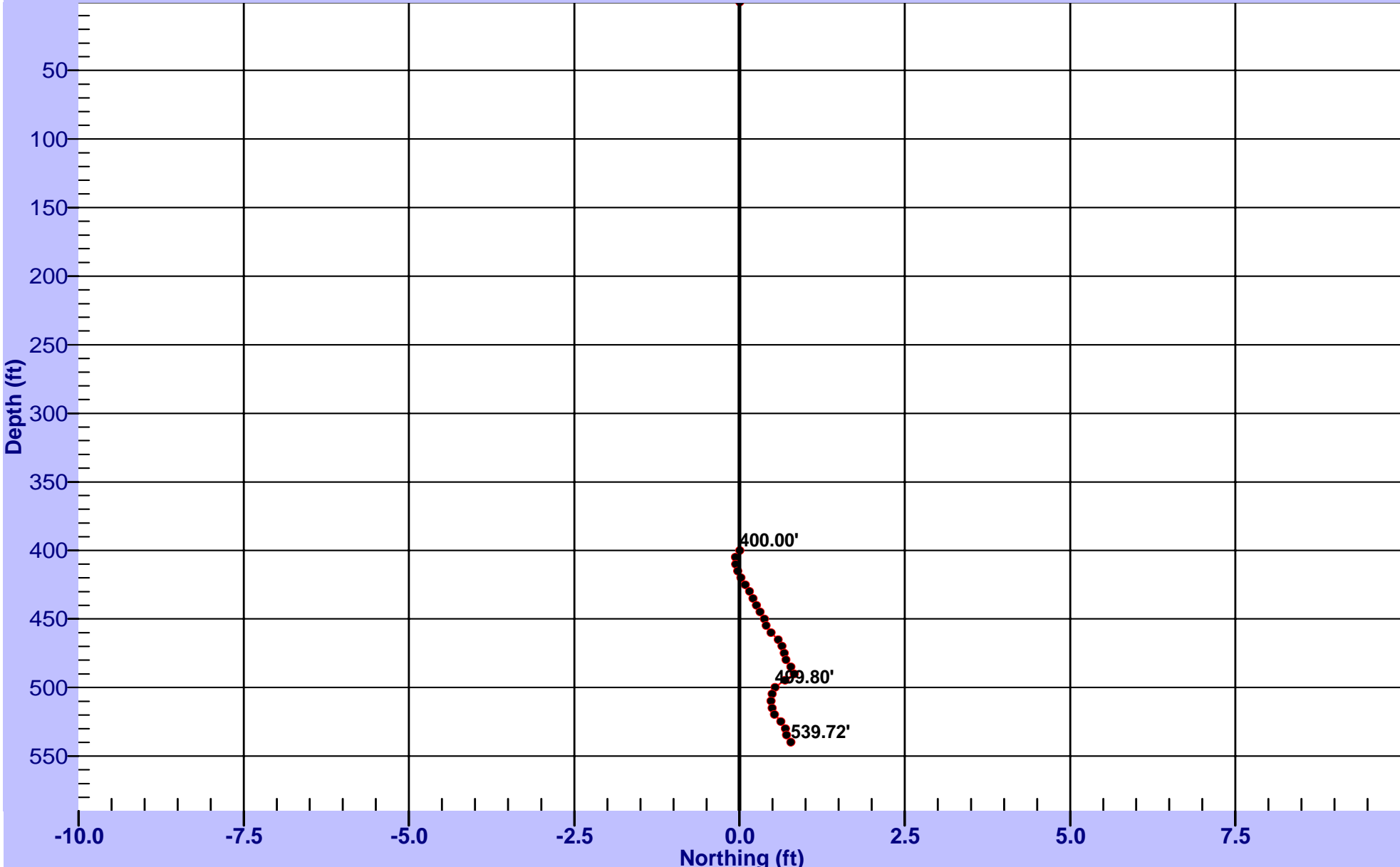
Drift-Pac Northing Rectangular View - Golden Hills 2 B072

UNAVCO

Drift Distance = 2.53 Feet

Drift Bearing = 72.1 Degrees

True Vertical Depth = 539.72 Feet



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DRIFT-PAC METHODOLOGY

Balanced Tangential Method

The Balanced Tangential Method uses the inclination and direction angles at the upper and lower ends of the course length in a manner so as to balance the two sets of measured angles over a course length. From a theoretical standpoint, this method combines the trigonometric functions to provide the average balanced inclination and direction angles, which are used in standard computational procedures. Other common names for this method are Vector Averaging, Acceleration, and Trapezoidal.

$$\Delta \text{ North} = [\Delta \text{MD}/2] \times [\sin(I_1) \times \cos(A_1) + \sin(I_2) \times \cos(A_2)]$$

$$\Delta \text{ East} = [\Delta \text{MD}/2] \times [\sin(I_1) \times \sin(A_1) + \sin(I_2) \times \sin(A_2)]$$

$$\Delta \text{ Vertical} = [\Delta \text{MD}/2] \times [\cos(I_1) + \cos(I_2)]$$

