

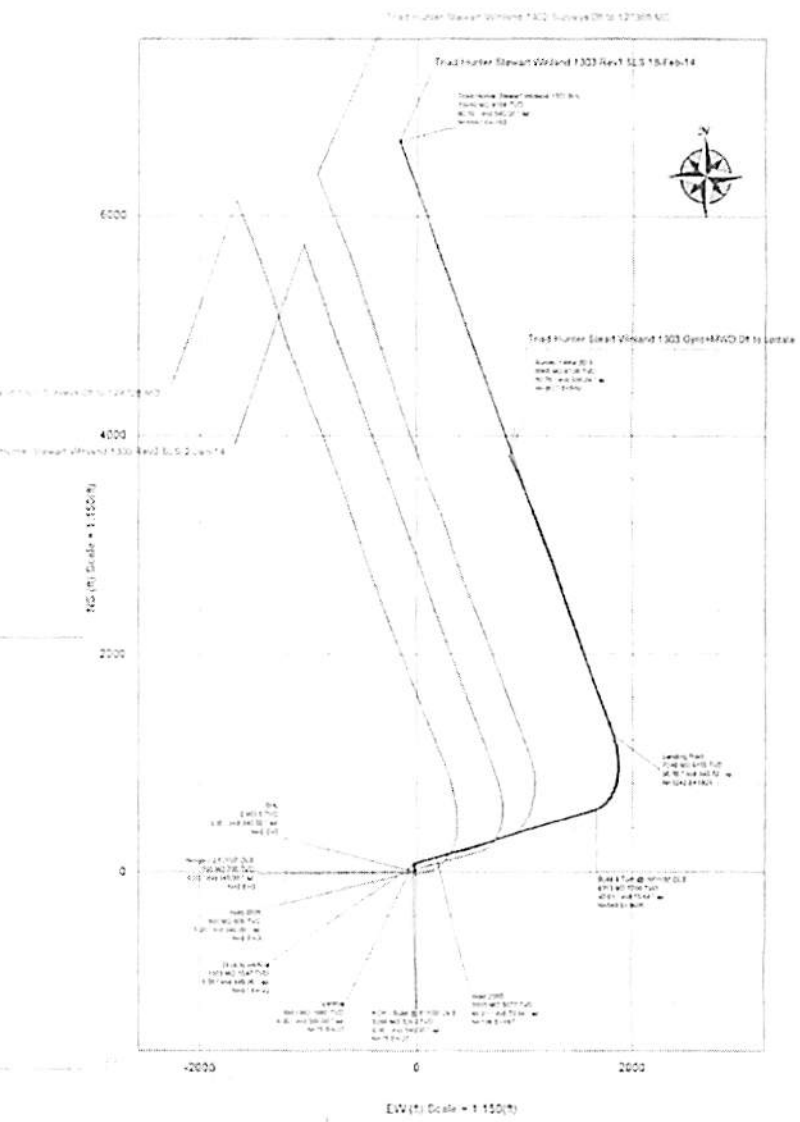
# Triad Hunter



|                                       |   |   |  |
|---------------------------------------|---|---|--|
| <b>Borehole:</b><br>Original Borehole | <b>Well:</b><br>Triad Hunter Stewart Winland 1303 | <b>Field:</b><br>WV Tyler County (NAD 27) | <b>Structure:</b><br>Alpha Hunter Rig #7 |
|---------------------------------------|---|---|--|

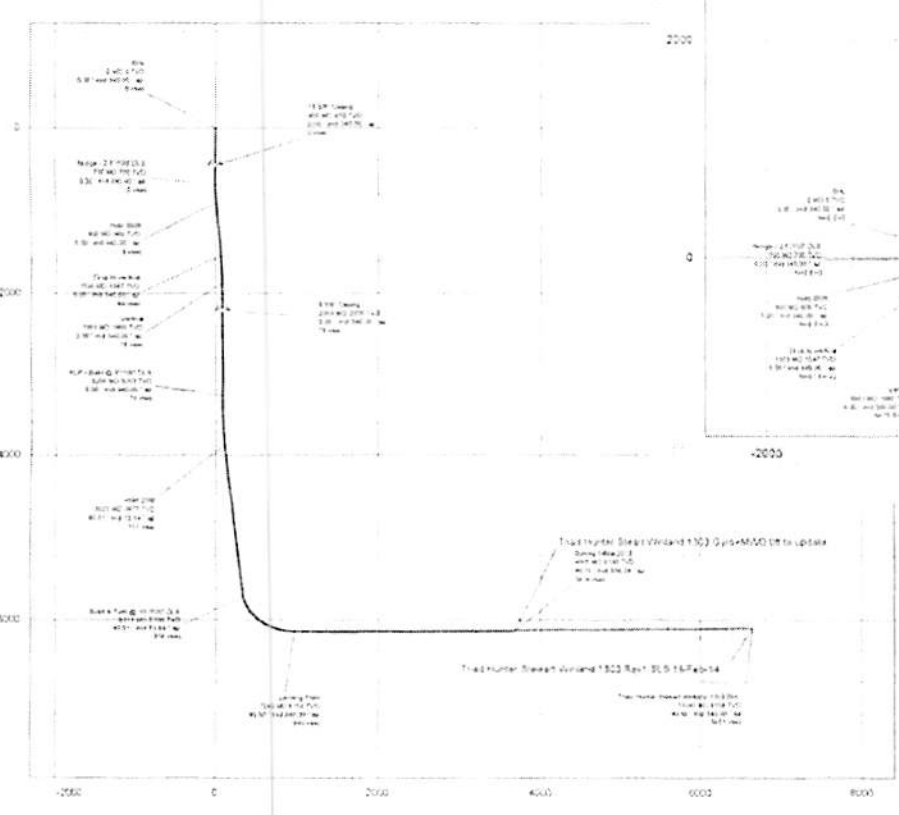
|  |   |   |   |
|--|---|---|---|
| <b>Geology &amp; Stratigraphic Parameters</b>  | <b>Location</b>   | <b>Wellhead/EOP</b>   | <b>Wellhead/EOP</b>   |
| Method: HDSM 2013<br>MagDec: 7.534° PS 12138.145-7<br>Date: 24 Feb 2014<br>Quantity: PS 455 830mg (0.830565 Barrels) | Lat: N 39 32 11.84<br>Lon: W 82 54 22.14<br>Northing: 2707419.8<br>Easting: 193 64270.5<br>Grid Zone: 18QJG<br>Scale Factor: 0.99983241 | Wellhead/EOP System: Stewart Winland 750 Ref<br>Plan: TAD Hunter Stewart Winland 1303 Opts-MWD DR to Update | Wellhead/EOP System: Stewart Winland 750 Ref<br>Plan: TAD Hunter Stewart Winland 1303 Opts-MWD DR to Update |

| Wellbore | Depth | Interval | Interval | Interval | Interval | Interval | Interval | Interval | Interval | Interval | Interval | Interval | Interval | Interval | Interval |
|----------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1        | 0.00  | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     |
| 2        | 1.00  | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     | 2.00     |
| 3        | 2.00  | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     | 3.00     |
| 4        | 3.00  | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     | 4.00     |
| 5        | 4.00  | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     | 5.00     |



- Triad Hunter Stewart Winland 1303 Opts-MWD DR to Update
- Triad Hunter Stewart Winland 1303 Rev1 16 Feb 14
- Triad Hunter Stewart Winland 1303 Opts-MWD DR to Update
- Triad Hunter Stewart Winland 1303 Opts-MWD DR to Update

Grid System  
 US Cont (NAD 83) (EAD)  
 Mag Dec (7.534°)  
 Grid Conv (0.99983241)



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**Triad Hunter Stewart Winland 1303 Gyro-MWD 0ft to update Survey Report**

(Non-Def Survey)

Report Date: March 17, 2014 - 08:59 AM  
 Client: Triad Hunter  
 Field: WV Tyler County (MAD 27)  
 Structure / Strat: Triad Hunter Stewart Winland 1303 Gyro-MWD DR to update  
 Well: Triad Hunter Stewart Winland 1303  
 Borehole: Original (Known)  
 UWI / APUR: Unknown / Unknown  
 Survey Name: Triad Hunter Stewart Winland 1303 Gyro-MWD DR to update  
 Survey Date: February 24, 2014  
 Tool / AMD / DOI / ERD Ratio: 262.294' / 8433.022 R / 6.672 / 1.372  
 Coordinate Reference System: NAD83 West Virginia State Plane, Northern Zone, US Feet  
 Location Lat / Long: N 30° 50' 33.94222", W 80° 59' 23.15639"  
 Location Grid N/E UTM: N 37C876 000 R13, E 1583332 000 803  
 CRS Grid Convergence Angle: -0.9186°  
 Grid Scale Factor: 0.99934281  
 Version / Patch: 2.7.1043 G

Survey / DLS Computations: Minimum Curvature / Latissa  
 Vertical Section Azimuthic  
 Vertical Section Origin: 0 000 R, 0 000 E  
 TVD Reference Datum: KB  
 TVD Reference Elevation: 908.000 R above MSL  
 Seabed / Ground Elevation: 908.000 R above MSL  
 Magnetic Declination: -7.859°  
 Total Gravity Field Strength: 965.330 mgals (9 80665 Based)  
 Gravity Method: GARM  
 Total Magnetic Field Strength: 52333.165 nT  
 Magnetic Dip Angle: 67.303°  
 Declination Date: February 24, 2014  
 Magnetic Declination Method: IHDGM 2013  
 North Reference: Grid North  
 Grid Convergence Used: -0.9186°  
 Total Corr Mag North-Grid North: -6.6203°  
 Local Coord Referenced To: Well Head

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| Comments | SD (ft) | Incl (°) | Asin Grid (ft) | TVD (ft) | THOSS (ft) | VEEC (ft) | NS (ft) | EW (ft) | DLS (ft/100ft) | GR (ft/100ft) | TR (ft/100ft) | Moving (ft/100ft) | Swing (ft/100ft) | Latitude (N/S °'") | Longitude (E/W °'") | Directional Drift/Quality Index |
|----------|---------|----------|----------------|----------|------------|-----------|---------|---------|----------------|---------------|---------------|-------------------|------------------|--------------------|---------------------|---------------------------------|
| 5.00     | 0.23    | 0.00     | 0.00           | 0.00     | -628.00    | 0.00      | 0.00    | 0.00    | NA             | NA            | NA            | 370876.08         | 1583332.00       | N 29 30 33.61 W    | 80 56 25.48         | 0.00                            |
| 450.00   | 0.49    | 208.00   | 449.99         | -478.01  | -1.63      | -1.63     | -0.91   | 0.11    | 0.11           | 0.00          | 370874.35     | 1583331.09        | N 29 30 33.67 W  | 80 56 25.47        | 0.00                |                                 |
| 345.00   | 0.29    | 168.15   | 344.99         | -383.01  | -2.21      | -2.24     | -1.11   | 0.28    | -0.20          | -30.37        | 370873.78     | 1583330.89        | N 29 30 33.66 W  | 80 56 25.17        | 0.27                |                                 |
| 632.00   | 0.42    | 191.58   | 631.98         | -298.01  | -2.74      | -2.77     | -1.17   | 0.17    | 0.15           | 13.11         | 370873.23     | 1583330.80        | N 29 30 33.63 W  | 80 56 25.17        | 0.43                |                                 |
| 735.00   | 1.26    | 313.28   | 719.98         | -209.02  | -3.38      | -2.41     | -1.58   | 1.78    | 0.98           | 121.22        | 370873.69     | 1583330.60        | N 29 30 33.58 W  | 80 56 25.18        | 0.99                |                                 |
| 837.00   | 3.74    | 320.08   | 800.89         | -121.11  | 0.54       | 0.43      | -4.48   | 2.84    | 2.83           | 7.82          | 370878.43     | 1583327.52        | N 29 30 33.61 W  | 80 56 25.21        | 1.58                |                                 |
| 894.00   | 6.03    | 329.74   | 893.37         | -34.42   | 6.78       | 6.08      | -8.80   | 2.78    | 2.83           | 11.10         | 370882.55     | 1583323.40        | N 29 30 33.61 W  | 80 56 25.27        | 2.63                |                                 |
| 962.00   | 6.47    | 336.12   | 961.03         | 53.05    | 15.28      | 18.08     | -12.84  | 0.83    | 0.50           | 7.29          | 370881.58     | 1583319.28        | N 29 30 33.73 W  | 80 56 25.22        | 2.31                |                                 |
| 1038.00  | 6.21    | 342.08   | 1037.52        | 126.52   | 24.45      | 24.08     | -18.51  | 0.81    | -0.20          | 7.77          | 370870.08     | 1583315.68        | N 29 30 33.62 W  | 80 56 25.27        | 2.49                |                                 |
| 1158.00  | 5.41    | 347.33   | 1154.07        | 226.07   | 33.00      | 32.58     | -18.60  | 1.58    | -0.82          | 5.11          | 370868.58     | 1583313.41        | N 29 30 33.60 W  | 80 56 25.40        | 2.83                |                                 |
| 1243.00  | 5.22    | 348.09   | 1240.70        | 312.70   | 40.90      | 40.45     | -20.24  | 0.28    | -0.22          | 2.02          | 370918.44     | 1583311.78        | N 29 30 33.98 W  | 80 56 25.42        | 2.72                |                                 |
| 1331.00  | 4.63    | 349.27   | 1328.37        | 400.37   | 48.40      | 47.88     | -21.87  | 0.53    | -0.85          | 0.20          | 370923.88     | 1583310.34        | N 29 30 34.05 W  | 80 56 25.44        | 2.80                |                                 |
| 1418.00  | 4.22    | 350.27   | 1410.11        | 487.11   | 53.04      | 54.50     | -22.86  | 0.50    | -0.49          | 1.28          | 370920.50     | 1583308.14        | N 29 30 34.12 W  | 80 56 25.48        | 2.86                |                                 |
| 1505.00  | 3.77    | 348.48   | 1501.80        | 573.90   | 61.04      | 60.47     | -23.82  | 0.52    | -0.82          | -1.02         | 370928.47     | 1583308.89        | N 29 30 34.18 W  | 80 56 25.47        | 2.82                |                                 |
| 1532.00  | 2.99    | 348.08   | 1588.78        | 660.75   | 66.07      | 63.99     | -24.58  | 0.83    | -0.80          | -0.83         | 370941.48     | 1583307.02        | N 29 30 34.20 W  | 80 56 25.43        | 2.88                |                                 |
| 1680.00  | 2.41    | 344.25   | 1678.68        | 748.85   | 70.11      | 68.49     | -26.04  | 0.87    | -0.68          | -2.05         | 370945.49     | 1583305.98        | N 29 30 34.26 W  | 80 56 25.50        | 3.02                |                                 |
| 1767.00  | 1.60    | 338.83   | 1763.90        | 835.60   | 73.01      | 72.37     | -27.02  | 0.98    | -0.83          | -8.77         | 370943.37     | 1583304.89        | N 29 30 34.28 W  | 80 56 25.62        | 3.07                |                                 |
| 1854.00  | 0.84    | 342.79   | 1850.58        | 922.58   | 74.73      | 74.09     | -27.89  | 0.89    | -0.87          | 7.08          | 370950.08     | 1583304.31        | N 29 30 34.31 W  | 80 56 25.62        | 3.10                |                                 |
| 1941.00  | 0.87    | 332.81   | 1937.87        | 1008.57  | 78.73      | 78.09     | -28.07  | 0.34    | -0.31          | -11.47        | 370951.89     | 1583303.93        | N 29 30 34.32 W  | 80 56 25.63        | 3.11                |                                 |
| 2028.00  | 0.87    | 4.17     | 2024.58        | 1098.56  | 78.64      | 78.98     | -28.24  | 0.40    | 0.11           | 39.03         | 370951.89     | 1583303.77        | N 29 30 34.32 W  | 80 56 25.63        | 3.13                |                                 |
| 2115.00  | 0.88    | 350.77   | 2111.58        | 1183.58  | 77.68      | 77.00     | -28.28  | 0.18    | 0.01           | -15.40        | 370942.99     | 1583303.72        | N 29 30 34.34 W  | 80 56 25.63        | 3.14                |                                 |
| 2203.00  | 0.30    | 322.66   | 2199.98        | 1271.98  | 78.37      | 77.70     | -28.50  | 0.80    | -0.43          | -31.72        | 370943.69     | 1583303.50        | N 29 30 34.35 W  | 80 56 25.34        | 3.19                |                                 |







| Coordinates     | MD (F)   | Sec (F) | Asm Grid (F) | TVD (F) | TVDSS (F) | VSEC (F) | MS (F)  | EW (F)  | CLS (F)(C2) | GR (F)(C2) | TR (F)(C2) | Horibing (BLIS) | Eastng (BLIS) | Latitude (N/S)  | Longitude (E/W) | Directional DR/Co/By Index |
|-----------------|----------|---------|--------------|---------|-----------|----------|---------|---------|-------------|------------|------------|-----------------|---------------|-----------------|-----------------|----------------------------|
|                 | 12757.00 | 91.31   | 343.42       | 6097.18 | 5168.16   | 8438.93  | 6490.09 | -72.94  | 2.70        | 0.84       | 2.38       | 377231.71       | 1893358.76    | N 39 31 37.41 W | 83 55 27.41     | 6.65                       |
|                 | 12845.00 | 91.33   | 343.29       | 6295.31 | 5187.31   | 8548.42  | 6543.83 | -88.51  | 0.23        | -0.20      | -0.15      | 377418.55       | 1893328.49    | N 39 31 38.23 W | 83 56 27.77     | 6.65                       |
|                 | 12932.00 | 91.83   | 342.47       | 6083.74 | 5163.74   | 8627.94  | 6628.84 | -123.84 | 0.31        | -0.23      | 0.21       | 377302.45       | 1893328.76    | N 39 31 28.05 W | 83 56 28.12     | 6.66                       |
| Last MWD Survey | 13019.00 | 92.88   | 341.27       | 6062.38 | 5184.38   | 8711.24  | 6708.51 | -152.81 | 1.38        | -0.05      | -1.38      | 377365.11       | 1893479.10    | N 39 31 28.85 W | 83 56 28.48     | 6.67                       |
| Prod to TD      | 13045.00 | 93.89   | 341.27       | 6051.98 | 5183.98   | 8738.05  | 6734.13 | -161.26 | 0.00        | 0.00       | 0.00       | 377609.73       | 1893470.75    | N 39 31 42.40 W | 83 56 28.59     | 6.67                       |

Survey Type: No-Dat Survey

Survey Error Model: ISOWSA Rev 0 - 3-D 13.000% Confidence 2.7935 sigma  
 Survey Program:

| Description | Part | MD From (F) | MD To (F) | LOG Freq (F) | Hole Size (In) | Coring Diameter (In) | Survey Tool Type         | Barcode / Survey   |
|-------------|------|-------------|-----------|--------------|----------------|----------------------|--------------------------|--|
|             | 1    | 0.000       | 22.000    | Act Site     | 30.000         | 30.000               | SLB_NSQ+MSHOT-Depth Only | Original Barcode / Trial Number Stewart Wetland 1303 Gyro+MWD OR to update |
|             | 1    | 22.000      | 480.000   | 1/98.428     | 30.000         | 30.000               | SLB_NSQ+MSHOT            | Original Barcode / Trial Number Stewart Wetland 1303 Gyro+MWD              |
|             | 1    | 480.000     | 480.000   | Act Site     | 30.000         | 30.000               | SLB_NSQ+MSHOT            | Original Barcode / Trial Number Stewart Wetland 1303 Gyro+MWD              |
|             | 1    | 480.000     | 13018.000 | Act Site     | 30.000         | 30.000               | SLB_MWD-STD              | Original Barcode / Trial Number Stewart Wetland 1303 Gyro+MWD              |
|             | 1    | 13018.000   | 13045.000 | Act Site     | 30.000         | 30.000               | SLB_BLMH+TRHD            | Original Barcode / Trial Number Stewart Wetland 1303 Gyro+MWD              |

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