

VERDAD RESOURCES

**WATTENBERG FIELD
2N-64W-24 ARNOLD-BOYD PAD
BOYD 2413-10H**

Plan A

Plan: Design #1

Standard Planning Report

14 December, 2021

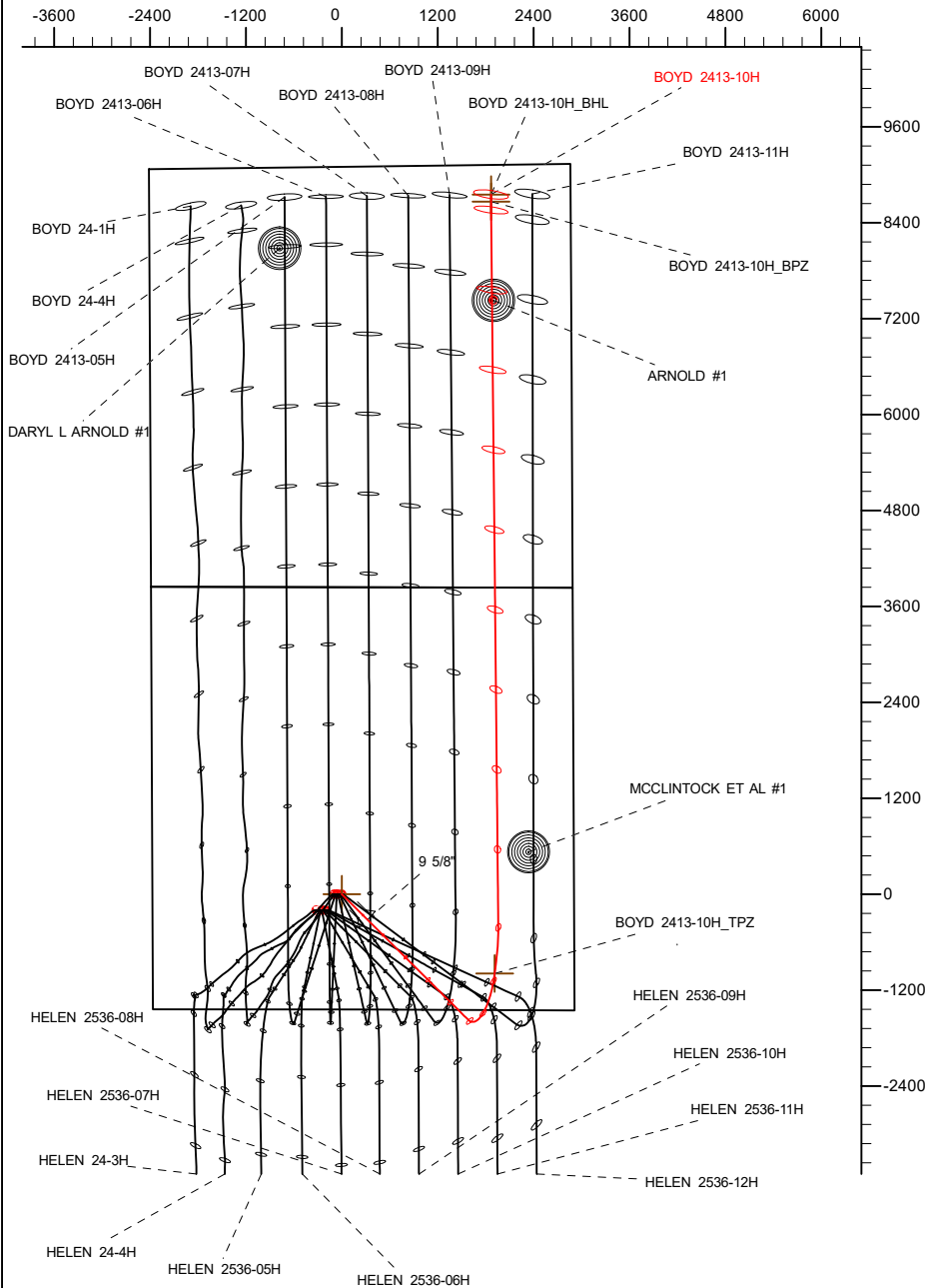
Project: WATTENBERG FIELD
Site: 2N-64W-24 ARNOLD-BOYD PAD
Well: BOYD 2413-10H
Wellbore: Plan A
Design: Design #1

VERDAD RESOURCES

CASING DETAILS

| TVD | MD | Name | Size |
|---------|---------|--------|-------|
| 1934.00 | 2004.08 | 9 5/8" | 9-5/8 |

West(-)/East(+) (2400 usft/in)



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
|-----|----------|-------|--------|---------|----------|---------|------|---------|----------|-------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 219.50 | 0.00 | 0.00 | 219.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1219.50 | 20.00 | 134.80 | 1199.32 | -121.74 | 122.59 | 2.00 | 134.80 | -122.31 | |
| 4 | 1799.50 | 20.00 | 134.80 | 1744.34 | -261.52 | 263.35 | 0.00 | 0.00 | -262.76 | |
| 5 | 1970.00 | 23.41 | 134.80 | 1902.73 | -305.94 | 308.09 | 2.00 | 0.00 | -307.39 | |
| 6 | 6490.34 | 23.41 | 134.80 | 6050.98 | -1571.44 | 1582.45 | 0.00 | 0.00 | -1578.88 | |
| 7 | 7646.94 | 90.00 | 7.00 | 6800.00 | -989.82 | 1912.03 | 9.00 | -125.44 | -998.82 | |
| 8 | 7846.94 | 90.00 | 7.00 | 6800.00 | -791.31 | 1936.40 | 0.00 | 0.00 | -800.42 | |
| 9 | 8225.64 | 90.00 | 359.43 | 6800.00 | -413.48 | 1957.61 | 2.00 | -90.00 | -422.70 | |
| 10 | 17393.29 | 90.00 | 359.43 | 6800.00 | 8753.72 | 1865.78 | 0.00 | 0.00 | 8744.83 | BOYD 2413-10H_BHL |

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|-------------------|---------|---------|---------|-----------|-------------|
| BOYD 2413-10H_SHL | 0.00 | 0.00 | 0.00 | 40.120602 | -104.500655 |
| BOYD 2413-10H_TPZ | 6800.00 | -989.82 | 1912.03 | 40.117885 | -104.493818 |
| BOYD 2413-10H_BPZ | 6800.00 | 8663.37 | 1866.35 | 40.144384 | -104.493979 |
| BOYD 2413-10H_BHL | 6800.00 | 8753.72 | 1865.78 | 40.144632 | -104.493981 |

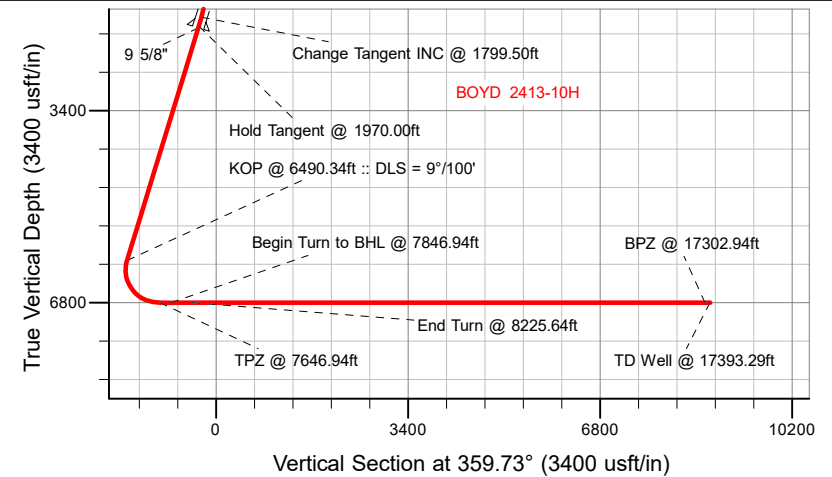
South(-)/North(+) (2400 usft/in)

SHL
1441' FSL
2371' FWL

TPZ
460' FSL
997' FEL

BPZ
460' FNL
997' FEL

BHL
370' FNL
997' FEL



Azimuths to True North
Magnetic North: 7.63°
Magnetic Field
Strength: 51781.4nT
Dip Angle: 66.45°
Date: 12/14/2021
Model: IGRF2020

WELL DETAILS: BOYD 2413-10H

GL = 4924'

RKB = 20' @ 4944.00usft (Drilling Rig)

Plan: Design #1 (BOYD 2413-10H/Plan A)

Date: 12/14/2021

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|--|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BOYD 2413-10H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Site: | 2N-64W-24 ARNOLD-BOYD PAD | North Reference: | True |
| Well: | BOYD 2413-10H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Design #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | WATTENBERG FIELD | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | | |
|-----------------------|----------|---------------------------|--------------|--------------|------------|-------------|
| Site | | 2N-64W-24 ARNOLD-BOYD PAD | | | | |
| Site Position: | | Northing: | 1,288,353.17 | usft | Latitude: | 40.120602 |
| From: | Lat/Long | Easting: | 3,279,389.09 | usft | Longitude: | -104.500941 |
| Position Uncertainty: | | 0.00 | usft | Slot Radius: | 13-3/16 | " |

| Well | | BOYD 2413-10H | | | | |
|----------------------|-------|---------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,288,354.06 usft | Latitude: | 40.120602 |
| | +E/-W | 0.00 usft | Easting: | 3,279,469.07 usft | Longitude: | -104.500655 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | usft | Ground Level: | 4,924.00 usft |
| Grid Convergence: | | 0.65 ° | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Plan A | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF202013 | 12/14/2021 | 7.63 | 66.45 | 51,781.44215035 |

| | | | | | |
|--------------------------|-----------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #1 | | | | |
| Audit Notes: | | | | | |
| Version: | | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | | 0.00 | 0.00 | 0.00 | 359.73 |

| | | | | | |
|---------------------------------|------------------------|--------------------------|--------------------|----------------|-------------------------------|
| Plan Survey Tool Program | Date | 12/14/2021 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 1,934.00 | Design #1 (Plan A) | ISCWSA MWD | Fixed:v2:standard declination |
| 2 | 1,934.00 | 17,393.29 | Design #1 (Plan A) | ISCWSA MWD | Fixed:v2:standard declination |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|--|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BOYD 2413-10H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Site: | 2N-64W-24 ARNOLD-BOYD PAD | North Reference: | True |
| Well: | BOYD 2413-10H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Design #1 | | |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 219.50 | 0.00 | 0.00 | 219.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,219.50 | 20.00 | 134.80 | 1,199.32 | -121.74 | 122.59 | 2.00 | 2.00 | 0.00 | 134.80 | |
| 1,799.50 | 20.00 | 134.80 | 1,744.34 | -261.52 | 263.35 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,970.00 | 23.41 | 134.80 | 1,902.73 | -305.94 | 308.09 | 2.00 | 2.00 | 0.00 | 0.00 | |
| 6,490.34 | 23.41 | 134.80 | 6,050.98 | -1,571.44 | 1,582.45 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,646.94 | 90.00 | 7.00 | 6,800.00 | -989.82 | 1,912.03 | 9.00 | 5.76 | -11.05 | -125.44 | |
| 7,846.94 | 90.00 | 7.00 | 6,800.00 | -791.31 | 1,936.40 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,225.64 | 90.00 | 359.43 | 6,800.00 | -413.48 | 1,957.61 | 2.00 | 0.00 | -2.00 | -90.00 | |
| 17,393.29 | 90.00 | 359.43 | 6,800.00 | 8,753.72 | 1,865.78 | 0.00 | 0.00 | 0.00 | 0.00 | BOYD 2413-10H_BHI |

Planning Report

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| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Site: | 2N-64W-24 ARNOLD-BOYD PAD | North Reference: | True |
| Well: | BOYD 2413-10H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219.50 | 0.00 | 0.00 | 219.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin Nudge @ 219.50ft | | | | | | | | | |
| 300.00 | 1.61 | 134.80 | 299.99 | -0.80 | 0.80 | -0.80 | 2.00 | 2.00 | 0.00 |
| 400.00 | 3.61 | 134.80 | 399.88 | -4.01 | 4.03 | -4.02 | 2.00 | 2.00 | 0.00 |
| 500.00 | 5.61 | 134.80 | 499.55 | -9.67 | 9.74 | -9.71 | 2.00 | 2.00 | 0.00 |
| 600.00 | 7.61 | 134.80 | 598.88 | -17.78 | 17.90 | -17.86 | 2.00 | 2.00 | 0.00 |
| 700.00 | 9.61 | 134.80 | 697.75 | -28.33 | 28.53 | -28.46 | 2.00 | 2.00 | 0.00 |
| 800.00 | 11.61 | 134.80 | 796.04 | -41.30 | 41.59 | -41.50 | 2.00 | 2.00 | 0.00 |
| 900.00 | 13.61 | 134.80 | 893.62 | -56.68 | 57.08 | -56.95 | 2.00 | 2.00 | 0.00 |
| 1,000.00 | 15.61 | 134.80 | 990.38 | -74.46 | 74.98 | -74.81 | 2.00 | 2.00 | 0.00 |
| 1,100.00 | 17.61 | 134.80 | 1,086.20 | -94.60 | 95.26 | -95.05 | 2.00 | 2.00 | 0.00 |
| 1,200.00 | 19.61 | 134.80 | 1,180.97 | -117.08 | 117.90 | -117.64 | 2.00 | 2.00 | 0.00 |
| 1,219.50 | 20.00 | 134.80 | 1,199.32 | -121.74 | 122.59 | -122.31 | 2.00 | 2.00 | 0.00 |
| Hold Tangent @ 1219.50ft | | | | | | | | | |
| 1,300.00 | 20.00 | 134.80 | 1,274.96 | -141.14 | 142.13 | -141.81 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 20.00 | 134.80 | 1,368.93 | -165.24 | 166.40 | -166.02 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 20.00 | 134.80 | 1,462.90 | -189.34 | 190.66 | -190.23 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 20.00 | 134.80 | 1,556.87 | -213.44 | 214.93 | -214.45 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 20.00 | 134.80 | 1,650.84 | -237.54 | 239.20 | -238.66 | 0.00 | 0.00 | 0.00 |
| 1,799.50 | 20.00 | 134.80 | 1,744.34 | -261.52 | 263.35 | -262.76 | 0.00 | 0.00 | 0.00 |
| Change Tangent INC @ 1799.50ft | | | | | | | | | |
| 1,900.00 | 22.01 | 134.80 | 1,838.15 | -286.90 | 288.91 | -288.26 | 2.00 | 2.00 | 0.00 |
| 1,970.00 | 23.41 | 134.80 | 1,902.73 | -305.94 | 308.09 | -307.39 | 2.00 | 2.00 | 0.00 |
| Hold Tangent @ 1970.00ft | | | | | | | | | |
| 2,000.00 | 23.41 | 134.80 | 1,930.26 | -314.34 | 316.54 | -315.83 | 0.00 | 0.00 | 0.00 |
| 2,004.08 | 23.41 | 134.80 | 1,934.00 | -315.48 | 317.69 | -316.98 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | |
| 2,100.00 | 23.41 | 134.80 | 2,022.02 | -342.34 | 344.74 | -343.96 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 23.41 | 134.80 | 2,113.79 | -370.33 | 372.93 | -372.09 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 23.41 | 134.80 | 2,205.56 | -398.33 | 401.12 | -400.21 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 23.41 | 134.80 | 2,297.33 | -426.32 | 429.31 | -428.34 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 23.41 | 134.80 | 2,389.10 | -454.32 | 457.50 | -456.47 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 23.41 | 134.80 | 2,480.87 | -482.32 | 485.69 | -484.60 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 23.41 | 134.80 | 2,572.64 | -510.31 | 513.89 | -512.73 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 23.41 | 134.80 | 2,664.40 | -538.31 | 542.08 | -540.85 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 23.41 | 134.80 | 2,756.17 | -566.30 | 570.27 | -568.98 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 23.41 | 134.80 | 2,847.94 | -594.30 | 598.46 | -597.11 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 23.41 | 134.80 | 2,939.71 | -622.29 | 626.65 | -625.24 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 23.41 | 134.80 | 3,031.48 | -650.29 | 654.85 | -653.37 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 23.41 | 134.80 | 3,123.25 | -678.28 | 683.04 | -681.50 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 23.41 | 134.80 | 3,215.02 | -706.28 | 711.23 | -709.62 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 23.41 | 134.80 | 3,306.78 | -734.28 | 739.42 | -737.75 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 23.41 | 134.80 | 3,398.55 | -762.27 | 767.61 | -765.88 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 23.41 | 134.80 | 3,490.32 | -790.27 | 795.80 | -794.01 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 23.41 | 134.80 | 3,582.09 | -818.26 | 824.00 | -822.14 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 23.41 | 134.80 | 3,673.86 | -846.26 | 852.19 | -850.27 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 23.41 | 134.80 | 3,765.63 | -874.25 | 880.38 | -878.39 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 23.41 | 134.80 | 3,857.40 | -902.25 | 908.57 | -906.52 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 23.41 | 134.80 | 3,949.16 | -930.25 | 936.76 | -934.65 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 23.41 | 134.80 | 4,040.93 | -958.24 | 964.96 | -962.78 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 23.41 | 134.80 | 4,132.70 | -986.24 | 993.15 | -990.91 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|--|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BOYD 2413-10H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Site: | 2N-64W-24 ARNOLD-BOYD PAD | North Reference: | True |
| Well: | BOYD 2413-10H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,500.00 | 23.41 | 134.80 | 4,224.47 | -1,014.23 | 1,021.34 | -1,019.03 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 23.41 | 134.80 | 4,316.24 | -1,042.23 | 1,049.53 | -1,047.16 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 23.41 | 134.80 | 4,408.01 | -1,070.22 | 1,077.72 | -1,075.29 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 23.41 | 134.80 | 4,499.77 | -1,098.22 | 1,105.91 | -1,103.42 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 23.41 | 134.80 | 4,591.54 | -1,126.22 | 1,134.11 | -1,131.55 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 23.41 | 134.80 | 4,683.31 | -1,154.21 | 1,162.30 | -1,159.68 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 23.41 | 134.80 | 4,775.08 | -1,182.21 | 1,190.49 | -1,187.80 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 23.41 | 134.80 | 4,866.85 | -1,210.20 | 1,218.68 | -1,215.93 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 23.41 | 134.80 | 4,958.62 | -1,238.20 | 1,246.87 | -1,244.06 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 23.41 | 134.80 | 5,050.39 | -1,266.19 | 1,275.07 | -1,272.19 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 23.41 | 134.80 | 5,142.15 | -1,294.19 | 1,303.26 | -1,300.32 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 23.41 | 134.80 | 5,233.92 | -1,322.19 | 1,331.45 | -1,328.45 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 23.41 | 134.80 | 5,325.69 | -1,350.18 | 1,359.64 | -1,356.57 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 23.41 | 134.80 | 5,417.46 | -1,378.18 | 1,387.83 | -1,384.70 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 23.41 | 134.80 | 5,509.23 | -1,406.17 | 1,416.02 | -1,412.83 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 23.41 | 134.80 | 5,601.00 | -1,434.17 | 1,444.22 | -1,440.96 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 23.41 | 134.80 | 5,692.77 | -1,462.16 | 1,472.41 | -1,469.09 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 23.41 | 134.80 | 5,784.53 | -1,490.16 | 1,500.60 | -1,497.21 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 23.41 | 134.80 | 5,876.30 | -1,518.16 | 1,528.79 | -1,525.34 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 23.41 | 134.80 | 5,968.07 | -1,546.15 | 1,556.98 | -1,553.47 | 0.00 | 0.00 | 0.00 |
| 6,490.34 | 23.41 | 134.80 | 6,050.98 | -1,571.44 | 1,582.45 | -1,578.88 | 0.00 | 0.00 | 0.00 |
| KOP @ 6490.34ft :: DLS = 9°/100' | | | | | | | | | |
| 6,500.00 | 22.92 | 132.98 | 6,059.86 | -1,574.08 | 1,585.19 | -1,581.53 | 9.00 | -5.11 | -18.83 |
| 6,550.00 | 20.74 | 122.37 | 6,106.29 | -1,585.46 | 1,599.80 | -1,592.98 | 9.00 | -4.36 | -21.23 |
| 6,600.00 | 19.34 | 109.86 | 6,153.28 | -1,593.01 | 1,615.06 | -1,600.60 | 9.00 | -2.80 | -25.02 |
| 6,650.00 | 18.89 | 96.15 | 6,200.55 | -1,596.69 | 1,630.90 | -1,604.36 | 9.00 | -0.90 | -27.41 |
| 6,700.00 | 19.46 | 82.53 | 6,247.80 | -1,596.48 | 1,647.22 | -1,604.22 | 9.00 | 1.14 | -27.24 |
| 6,750.00 | 20.97 | 70.23 | 6,294.74 | -1,592.36 | 1,663.90 | -1,600.19 | 9.00 | 3.01 | -24.60 |
| 6,800.00 | 23.23 | 59.86 | 6,341.08 | -1,584.38 | 1,680.85 | -1,592.29 | 9.00 | 4.52 | -20.74 |
| 6,850.00 | 26.05 | 51.42 | 6,386.54 | -1,572.58 | 1,697.97 | -1,580.57 | 9.00 | 5.64 | -16.87 |
| 6,900.00 | 29.26 | 44.63 | 6,430.84 | -1,557.03 | 1,715.15 | -1,565.10 | 9.00 | 6.43 | -13.59 |
| 6,950.00 | 32.76 | 39.12 | 6,473.69 | -1,537.83 | 1,732.27 | -1,545.98 | 9.00 | 6.99 | -11.02 |
| 7,000.00 | 36.45 | 34.59 | 6,514.85 | -1,515.10 | 1,749.25 | -1,523.32 | 9.00 | 7.39 | -9.06 |
| 7,050.00 | 40.29 | 30.80 | 6,554.05 | -1,488.97 | 1,765.97 | -1,497.27 | 9.00 | 7.68 | -7.58 |
| 7,100.00 | 44.23 | 27.57 | 6,591.05 | -1,459.61 | 1,782.33 | -1,467.99 | 9.00 | 7.89 | -6.45 |
| 7,150.00 | 48.25 | 24.77 | 6,625.62 | -1,427.20 | 1,798.22 | -1,435.65 | 9.00 | 8.04 | -5.59 |
| 7,200.00 | 52.34 | 22.31 | 6,657.56 | -1,391.93 | 1,813.56 | -1,400.46 | 9.00 | 8.16 | -4.93 |
| 7,250.00 | 56.46 | 20.10 | 6,686.66 | -1,354.04 | 1,828.24 | -1,362.64 | 9.00 | 8.26 | -4.41 |
| 7,300.00 | 60.63 | 18.10 | 6,712.75 | -1,313.74 | 1,842.18 | -1,322.40 | 9.00 | 8.33 | -4.01 |
| 7,350.00 | 64.82 | 16.26 | 6,735.66 | -1,271.29 | 1,855.29 | -1,280.02 | 9.00 | 8.38 | -3.69 |
| 7,400.00 | 69.03 | 14.53 | 6,755.25 | -1,226.95 | 1,867.49 | -1,235.74 | 9.00 | 8.42 | -3.44 |
| 7,450.00 | 73.26 | 12.91 | 6,771.41 | -1,180.99 | 1,878.70 | -1,189.83 | 9.00 | 8.46 | -3.25 |
| 7,500.00 | 77.50 | 11.35 | 6,784.03 | -1,133.70 | 1,888.86 | -1,142.59 | 9.00 | 8.48 | -3.11 |
| 7,550.00 | 81.75 | 9.84 | 6,793.03 | -1,085.37 | 1,897.89 | -1,094.30 | 9.00 | 8.50 | -3.01 |
| 7,600.00 | 86.00 | 8.37 | 6,798.37 | -1,036.30 | 1,905.76 | -1,045.26 | 9.00 | 8.51 | -2.95 |
| 7,646.94 | 90.00 | 7.00 | 6,800.00 | -989.82 | 1,912.03 | -998.82 | 9.00 | 8.51 | -2.92 |
| TPZ @ 7646.94ft | | | | | | | | | |
| 7,700.00 | 90.00 | 7.00 | 6,800.00 | -937.15 | 1,918.50 | -946.18 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 7.00 | 6,800.00 | -837.90 | 1,930.68 | -846.99 | 0.00 | 0.00 | 0.00 |
| 7,846.94 | 90.00 | 7.00 | 6,800.00 | -791.31 | 1,936.40 | -800.42 | 0.00 | 0.00 | 0.00 |
| Begin Turn to BHL @ 7846.94ft | | | | | | | | | |
| 7,900.00 | 90.00 | 5.94 | 6,800.00 | -738.59 | 1,942.38 | -747.73 | 2.00 | 0.00 | -2.00 |
| 8,000.00 | 90.00 | 3.94 | 6,800.00 | -638.96 | 1,950.99 | -648.15 | 2.00 | 0.00 | -2.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|--|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BOYD 2413-10H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Site: | 2N-64W-24 ARNOLD-BOYD PAD | North Reference: | True |
| Well: | BOYD 2413-10H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Design #1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,100.00 | 90.00 | 1.94 | 6,800.00 | -539.10 | 1,956.12 | -548.31 | 2.00 | 0.00 | -2.00 |
| 8,200.00 | 90.00 | 359.94 | 6,800.00 | -439.12 | 1,957.76 | -448.34 | 2.00 | 0.00 | -2.00 |
| 8,225.64 | 90.00 | 359.43 | 6,800.00 | -413.48 | 1,957.61 | -422.70 | 2.00 | 0.00 | -2.00 |
| End Turn @ 8225.64ft | | | | | | | | | |
| 8,300.00 | 90.00 | 359.43 | 6,800.00 | -339.12 | 1,956.87 | -348.34 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 359.43 | 6,800.00 | -239.13 | 1,955.87 | -248.34 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 359.43 | 6,800.00 | -139.13 | 1,954.86 | -148.34 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 359.43 | 6,800.00 | -39.14 | 1,953.86 | -48.34 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.00 | 359.43 | 6,800.00 | 60.86 | 1,952.86 | 51.66 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.00 | 359.43 | 6,800.00 | 160.85 | 1,951.86 | 151.65 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.00 | 359.43 | 6,800.00 | 260.85 | 1,950.86 | 251.65 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.00 | 359.43 | 6,800.00 | 360.84 | 1,949.86 | 351.65 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.00 | 359.43 | 6,800.00 | 460.84 | 1,948.85 | 451.65 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.00 | 359.43 | 6,800.00 | 560.83 | 1,947.85 | 551.65 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.00 | 359.43 | 6,800.00 | 660.83 | 1,946.85 | 651.65 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.00 | 359.43 | 6,800.00 | 760.82 | 1,945.85 | 751.65 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.00 | 359.43 | 6,800.00 | 860.82 | 1,944.85 | 851.64 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 359.43 | 6,800.00 | 960.81 | 1,943.85 | 951.64 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 359.43 | 6,800.00 | 1,060.81 | 1,942.84 | 1,051.64 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 359.43 | 6,800.00 | 1,160.80 | 1,941.84 | 1,151.64 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 359.43 | 6,800.00 | 1,260.80 | 1,940.84 | 1,251.64 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 359.43 | 6,800.00 | 1,360.79 | 1,939.84 | 1,351.64 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.00 | 359.43 | 6,800.00 | 1,460.79 | 1,938.84 | 1,451.64 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.00 | 359.43 | 6,800.00 | 1,560.78 | 1,937.84 | 1,551.63 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 359.43 | 6,800.00 | 1,660.78 | 1,936.83 | 1,651.63 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 359.43 | 6,800.00 | 1,760.77 | 1,935.83 | 1,751.63 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 359.43 | 6,800.00 | 1,860.77 | 1,934.83 | 1,851.63 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 359.43 | 6,800.00 | 1,960.76 | 1,933.83 | 1,951.63 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 359.43 | 6,800.00 | 2,060.76 | 1,932.83 | 2,051.63 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 359.43 | 6,800.00 | 2,160.75 | 1,931.83 | 2,151.63 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 359.43 | 6,800.00 | 2,260.75 | 1,930.82 | 2,251.62 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.00 | 359.43 | 6,800.00 | 2,360.74 | 1,929.82 | 2,351.62 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.00 | 359.43 | 6,800.00 | 2,460.74 | 1,928.82 | 2,451.62 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.00 | 359.43 | 6,800.00 | 2,560.73 | 1,927.82 | 2,551.62 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.00 | 359.43 | 6,800.00 | 2,660.73 | 1,926.82 | 2,651.62 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.00 | 359.43 | 6,800.00 | 2,760.72 | 1,925.82 | 2,751.62 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.00 | 359.43 | 6,800.00 | 2,860.72 | 1,924.81 | 2,851.62 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.00 | 359.43 | 6,800.00 | 2,960.71 | 1,923.81 | 2,951.61 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.00 | 359.43 | 6,800.00 | 3,060.71 | 1,922.81 | 3,051.61 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.00 | 359.43 | 6,800.00 | 3,160.70 | 1,921.81 | 3,151.61 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.00 | 359.43 | 6,800.00 | 3,260.70 | 1,920.81 | 3,251.61 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.00 | 359.43 | 6,800.00 | 3,360.69 | 1,919.80 | 3,351.61 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.00 | 359.43 | 6,800.00 | 3,460.69 | 1,918.80 | 3,451.61 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 359.43 | 6,800.00 | 3,560.68 | 1,917.80 | 3,551.61 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 359.43 | 6,800.00 | 3,660.68 | 1,916.80 | 3,651.60 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 359.43 | 6,800.00 | 3,760.67 | 1,915.80 | 3,751.60 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 359.43 | 6,800.00 | 3,860.67 | 1,914.80 | 3,851.60 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 359.43 | 6,800.00 | 3,960.66 | 1,913.79 | 3,951.60 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 359.43 | 6,800.00 | 4,060.66 | 1,912.79 | 4,051.60 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 359.43 | 6,800.00 | 4,160.65 | 1,911.79 | 4,151.60 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 359.43 | 6,800.00 | 4,260.65 | 1,910.79 | 4,251.60 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 359.43 | 6,800.00 | 4,360.64 | 1,909.79 | 4,351.60 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 359.43 | 6,800.00 | 4,460.64 | 1,908.79 | 4,451.59 | 0.00 | 0.00 | 0.00 |

Planning Report

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| Database: EDM 5000.16 Single User Db Company: VERDAD RESOURCES Project: WATTENBERG FIELD Site: 2N-64W-24 ARNOLD-BOYD PAD Well: BOYD 2413-10H Wellbore: Plan A Design: Design #1 | Local Co-ordinate Reference: Well BOYD 2413-10H TVD Reference: RKB = 20' @ 4944.00usft (Drilling Rig) MD Reference: RKB = 20' @ 4944.00usft (Drilling Rig) North Reference: True Survey Calculation Method: Minimum Curvature |
|--|--|

| Planned Survey | | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 13,200.00 | 90.00 | 359.43 | 6,800.00 | 4,560.63 | 1,907.78 | 4,551.59 | 0.00 | 0.00 | 0.00 | |
| 13,300.00 | 90.00 | 359.43 | 6,800.00 | 4,660.63 | 1,906.78 | 4,651.59 | 0.00 | 0.00 | 0.00 | |
| 13,400.00 | 90.00 | 359.43 | 6,800.00 | 4,760.62 | 1,905.78 | 4,751.59 | 0.00 | 0.00 | 0.00 | |
| 13,500.00 | 90.00 | 359.43 | 6,800.00 | 4,860.62 | 1,904.78 | 4,851.59 | 0.00 | 0.00 | 0.00 | |
| 13,600.00 | 90.00 | 359.43 | 6,800.00 | 4,960.61 | 1,903.78 | 4,951.59 | 0.00 | 0.00 | 0.00 | |
| 13,700.00 | 90.00 | 359.43 | 6,800.00 | 5,060.61 | 1,902.78 | 5,051.59 | 0.00 | 0.00 | 0.00 | |
| 13,800.00 | 90.00 | 359.43 | 6,800.00 | 5,160.60 | 1,901.77 | 5,151.58 | 0.00 | 0.00 | 0.00 | |
| 13,900.00 | 90.00 | 359.43 | 6,800.00 | 5,260.60 | 1,900.77 | 5,251.58 | 0.00 | 0.00 | 0.00 | |
| 14,000.00 | 90.00 | 359.43 | 6,800.00 | 5,360.59 | 1,899.77 | 5,351.58 | 0.00 | 0.00 | 0.00 | |
| 14,100.00 | 90.00 | 359.43 | 6,800.00 | 5,460.59 | 1,898.77 | 5,451.58 | 0.00 | 0.00 | 0.00 | |
| 14,200.00 | 90.00 | 359.43 | 6,800.00 | 5,560.58 | 1,897.77 | 5,551.58 | 0.00 | 0.00 | 0.00 | |
| 14,300.00 | 90.00 | 359.43 | 6,800.00 | 5,660.58 | 1,896.77 | 5,651.58 | 0.00 | 0.00 | 0.00 | |
| 14,400.00 | 90.00 | 359.43 | 6,800.00 | 5,760.57 | 1,895.76 | 5,751.58 | 0.00 | 0.00 | 0.00 | |
| 14,500.00 | 90.00 | 359.43 | 6,800.00 | 5,860.57 | 1,894.76 | 5,851.57 | 0.00 | 0.00 | 0.00 | |
| 14,600.00 | 90.00 | 359.43 | 6,800.00 | 5,960.56 | 1,893.76 | 5,951.57 | 0.00 | 0.00 | 0.00 | |
| 14,700.00 | 90.00 | 359.43 | 6,800.00 | 6,060.56 | 1,892.76 | 6,051.57 | 0.00 | 0.00 | 0.00 | |
| 14,800.00 | 90.00 | 359.43 | 6,800.00 | 6,160.55 | 1,891.76 | 6,151.57 | 0.00 | 0.00 | 0.00 | |
| 14,900.00 | 90.00 | 359.43 | 6,800.00 | 6,260.55 | 1,890.76 | 6,251.57 | 0.00 | 0.00 | 0.00 | |
| 15,000.00 | 90.00 | 359.43 | 6,800.00 | 6,360.54 | 1,889.75 | 6,351.57 | 0.00 | 0.00 | 0.00 | |
| 15,100.00 | 90.00 | 359.43 | 6,800.00 | 6,460.54 | 1,888.75 | 6,451.57 | 0.00 | 0.00 | 0.00 | |
| 15,200.00 | 90.00 | 359.43 | 6,800.00 | 6,560.53 | 1,887.75 | 6,551.56 | 0.00 | 0.00 | 0.00 | |
| 15,300.00 | 90.00 | 359.43 | 6,800.00 | 6,660.53 | 1,886.75 | 6,651.56 | 0.00 | 0.00 | 0.00 | |
| 15,400.00 | 90.00 | 359.43 | 6,800.00 | 6,760.52 | 1,885.75 | 6,751.56 | 0.00 | 0.00 | 0.00 | |
| 15,500.00 | 90.00 | 359.43 | 6,800.00 | 6,860.52 | 1,884.75 | 6,851.56 | 0.00 | 0.00 | 0.00 | |
| 15,600.00 | 90.00 | 359.43 | 6,800.00 | 6,960.51 | 1,883.74 | 6,951.56 | 0.00 | 0.00 | 0.00 | |
| 15,700.00 | 90.00 | 359.43 | 6,800.00 | 7,060.51 | 1,882.74 | 7,051.56 | 0.00 | 0.00 | 0.00 | |
| 15,800.00 | 90.00 | 359.43 | 6,800.00 | 7,160.50 | 1,881.74 | 7,151.56 | 0.00 | 0.00 | 0.00 | |
| 15,900.00 | 90.00 | 359.43 | 6,800.00 | 7,260.50 | 1,880.74 | 7,251.55 | 0.00 | 0.00 | 0.00 | |
| 16,000.00 | 90.00 | 359.43 | 6,800.00 | 7,360.49 | 1,879.74 | 7,351.55 | 0.00 | 0.00 | 0.00 | |
| 16,100.00 | 90.00 | 359.43 | 6,800.00 | 7,460.49 | 1,878.73 | 7,451.55 | 0.00 | 0.00 | 0.00 | |
| 16,200.00 | 90.00 | 359.43 | 6,800.00 | 7,560.48 | 1,877.73 | 7,551.55 | 0.00 | 0.00 | 0.00 | |
| 16,300.00 | 90.00 | 359.43 | 6,800.00 | 7,660.48 | 1,876.73 | 7,651.55 | 0.00 | 0.00 | 0.00 | |
| 16,400.00 | 90.00 | 359.43 | 6,800.00 | 7,760.47 | 1,875.73 | 7,751.55 | 0.00 | 0.00 | 0.00 | |
| 16,500.00 | 90.00 | 359.43 | 6,800.00 | 7,860.47 | 1,874.73 | 7,851.55 | 0.00 | 0.00 | 0.00 | |
| 16,600.00 | 90.00 | 359.43 | 6,800.00 | 7,960.46 | 1,873.73 | 7,951.54 | 0.00 | 0.00 | 0.00 | |
| 16,700.00 | 90.00 | 359.43 | 6,800.00 | 8,060.46 | 1,872.72 | 8,051.54 | 0.00 | 0.00 | 0.00 | |
| 16,800.00 | 90.00 | 359.43 | 6,800.00 | 8,160.45 | 1,871.72 | 8,151.54 | 0.00 | 0.00 | 0.00 | |
| 16,900.00 | 90.00 | 359.43 | 6,800.00 | 8,260.45 | 1,870.72 | 8,251.54 | 0.00 | 0.00 | 0.00 | |
| 17,000.00 | 90.00 | 359.43 | 6,800.00 | 8,360.44 | 1,869.72 | 8,351.54 | 0.00 | 0.00 | 0.00 | |
| 17,100.00 | 90.00 | 359.43 | 6,800.00 | 8,460.44 | 1,868.72 | 8,451.54 | 0.00 | 0.00 | 0.00 | |
| 17,200.00 | 90.00 | 359.43 | 6,800.00 | 8,560.43 | 1,867.72 | 8,551.54 | 0.00 | 0.00 | 0.00 | |
| 17,300.00 | 90.00 | 359.43 | 6,800.00 | 8,660.43 | 1,866.71 | 8,651.53 | 0.00 | 0.00 | 0.00 | |
| 17,302.94 | 90.00 | 359.43 | 6,800.00 | 8,663.37 | 1,866.68 | 8,654.47 | 0.00 | 0.00 | 0.00 | |
| BPZ @ 17302.94ft | | | | | | | | | | |
| 17,393.29 | 90.00 | 359.43 | 6,800.00 | 8,753.72 | 1,865.78 | 8,744.83 | 0.00 | 0.00 | 0.00 | |
| TD Well @ 17393.29ft | | | | | | | | | | |

Planning Report

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|------------------|----------------------------|-------------------------------------|--|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well BOYD 2413-10H |
| Company: | VERDAD RESOURCES | TVD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Project: | WATTENBERG FIELD | MD Reference: | RKB = 20' @ 4944.00usft (Drilling Rig) |
| Site: | 2N-64W-24 ARNOLD-BOYD PAD | North Reference: | True |
| Well: | BOYD 2413-10H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Design #1 | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|--------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | | Casing Diameter (") | Hole Diameter (") |
| 2,004.08 | 1,934.00 | 9 5/8" | | 9-5/8 | 13-1/2 |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 219.50 | 219.50 | 0.00 | 0.00 | Begin Nudge @ 219.50ft | |
| 1,219.50 | 1,199.32 | -121.74 | 122.59 | Hold Tangent @ 1219.50ft | |
| 1,799.50 | 1,744.34 | -261.52 | 263.35 | Change Tangent INC @ 1799.50ft | |
| 1,970.00 | 1,902.73 | -305.94 | 308.09 | Hold Tangent @ 1970.00ft | |
| 6,490.34 | 6,050.98 | -1,571.44 | 1,582.45 | KOP @ 6490.34ft :: DLS = 9°/100' | |
| 7,646.94 | 6,800.00 | -989.82 | 1,912.03 | TPZ @ 7646.94ft | |
| 7,846.94 | 6,800.00 | -791.31 | 1,936.40 | Begin Turn to BHL @ 7846.94ft | |
| 8,225.64 | 6,800.00 | -413.48 | 1,957.61 | End Turn @ 8225.64ft | |
| 17,302.94 | 6,800.00 | 8,663.37 | 1,866.68 | BPZ @ 17302.94ft | |
| 17,393.29 | 6,800.00 | 8,753.72 | 1,865.78 | TD Well @ 17393.29ft | |