

Crestone Peak Resources

DJ BASIN

S25-T1N-R66W (LOCHBUIE LAND)

LOCHBUIE LAND 2A-25H-D166

OH

PLAN #1

Anticollision Summary Report

25 May, 2018

Cathedral Energy Services

Anticollision Summary Report

| | | | |
|---------------------------|------------------------------|-------------------------------------|--|
| Company: | Crestone Peak Resources | Local Co-ordinate Reference: | Well LOCHBUIE LAND 2A-25H-D166 - Slot LOCHBUIE LAND 2A-25H-D166 SHL |
| Project: | DJ BASIN | TVD Reference: | KB @ 5101.00usft |
| Reference Site: | S25-T1N-R66W (LOCHBUIE LAND) | MD Reference: | KB @ 5101.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | LOCHBUIE LAND 2A-25H-D166 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | PLAN #1 | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.00usft | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,933.21 usft | Error Surface: | Pedal Curve |
| Warning Levels Evaluated at: | 2.00 Sigma | Casing Method: | Not applied |

| | | | | |
|----------------------------|------------------|--------------------------|------------------|---------------------|
| Survey Tool Program | Date | 5/25/2018 | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 0.00 | 2,000.00 | PLAN #1 (OH) | VESSI_GYROFLEX | VESSI Gyroflex Gyro |
| 2,001.00 | 11,964.88 | PLAN #1 (OH) | MWD+HDGM | OWSG MWD + HDGM |

| Summary | | | | | | |
|-------------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|------------|
| Site Name | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| S25-T1N-R66W (LOCHBUIE LAND) | | | | | | |
| AZUL 13-11HZ - KMG WELL - PLAN ONLY | 8,814.06 | 12,171.49 | 525.98 | 445.95 | 6.573 | CC, ES |
| AZUL 13-11HZ - KMG WELL - PLAN ONLY | 9,100.00 | 12,171.49 | 598.68 | 495.55 | 5.805 | SF |
| AZUL 13-12HZ - KMG WELL - PLAN ONLY | 9,099.08 | 12,521.28 | 525.19 | 435.08 | 5.828 | CC, ES |
| AZUL 13-12HZ - KMG WELL - PLAN ONLY | 9,400.00 | 12,521.28 | 605.29 | 495.16 | 5.496 | SF |
| AZUL 13-19HZ - KMG WELL - PLAN ONLY | 10,400.00 | 12,512.25 | 522.07 | 386.20 | 3.842 | SF |
| AZUL 13-19HZ - KMG WELL - PLAN ONLY | 10,450.37 | 12,512.25 | 519.64 | 385.64 | 3.878 | CC, ES |
| AZUL 13-1HZ - KMG WELL - PLAN ONLY | 7,392.51 | 12,639.08 | 584.43 | 516.77 | 8.637 | CC |
| AZUL 13-1HZ - KMG WELL - PLAN ONLY | 7,400.00 | 12,639.08 | 584.50 | 516.17 | 8.555 | ES |
| AZUL 13-1HZ - KMG WELL - PLAN ONLY | 7,700.00 | 12,639.08 | 688.83 | 593.66 | 7.238 | SF |
| AZUL 13-20HZ - KMG WELL - PLAN ONLY | 10,142.85 | 12,681.44 | 547.57 | 426.86 | 4.536 | CC, ES |
| AZUL 13-20HZ - KMG WELL - PLAN ONLY | 10,300.00 | 12,681.44 | 569.68 | 443.56 | 4.517 | SF |
| AZUL 13-21HZ - KMG WELL - PLAN ONLY | 9,909.75 | 12,502.03 | 519.94 | 405.93 | 4.561 | CC, ES |
| AZUL 13-21HZ - KMG WELL - PLAN ONLY | 10,100.00 | 12,502.03 | 553.65 | 429.42 | 4.456 | SF |
| AZUL 13-22HZ - KMG WELL - PLAN ONLY | 9,679.97 | 12,413.56 | 519.15 | 413.51 | 4.914 | CC |
| AZUL 13-22HZ - KMG WELL - PLAN ONLY | 9,700.00 | 12,413.56 | 519.54 | 413.38 | 4.894 | ES |
| AZUL 13-22HZ - KMG WELL - PLAN ONLY | 9,900.00 | 12,413.56 | 563.85 | 442.70 | 4.654 | SF |
| AZUL 13-23HZ - KMG WELL - PLAN ONLY | 9,430.86 | 12,625.16 | 546.68 | 449.19 | 5.607 | CC, ES |
| AZUL 13-23HZ - KMG WELL - PLAN ONLY | 9,700.00 | 12,625.16 | 609.34 | 491.57 | 5.174 | SF |
| AZUL 13-24HZ - KMG WELL - SURVEYS | 11,964.88 | 13,242.00 | 637.58 | 420.88 | 2.942 | CC, ES, SF |
| AZUL 13-25HZ - KMG WELL - SURVEYS | 11,964.88 | 13,364.00 | 549.48 | 339.93 | 2.622 | CC, ES, SF |
| AZUL 13-26HZ - KMG WELL - SURVEYS | 11,700.00 | 12,966.00 | 521.05 | 324.22 | 2.647 | SF |
| AZUL 13-26HZ - KMG WELL - SURVEYS | 11,760.12 | 12,966.00 | 517.56 | 324.08 | 2.675 | CC, ES |
| AZUL 13-27HZ - KMG WELL - SURVEYS | 11,400.00 | 12,904.00 | 528.01 | 351.06 | 2.984 | ES, SF |
| AZUL 13-27HZ - KMG WELL - SURVEYS | 11,427.09 | 12,904.00 | 527.32 | 351.97 | 3.007 | CC |
| AZUL 13-28HZ - KMG WELL - SURVEYS | 11,000.00 | 12,857.00 | 556.13 | 394.48 | 3.440 | SF |
| AZUL 13-28HZ - KMG WELL - SURVEYS | 11,100.00 | 12,857.00 | 546.62 | 387.87 | 3.443 | ES |
| AZUL 13-28HZ - KMG WELL - SURVEYS | 11,102.44 | 12,857.00 | 546.61 | 387.94 | 3.445 | CC |
| AZUL 13-29HZ - KMG WELL - SURVEYS | 10,700.00 | 12,714.00 | 523.79 | 372.58 | 3.464 | SF |
| AZUL 13-29HZ - KMG WELL - SURVEYS | 10,786.39 | 12,714.00 | 516.62 | 368.98 | 3.499 | CC, ES |
| AZUL 13-2HZ - KMG WELL - PLAN ONLY | 7,592.35 | 12,395.56 | 585.35 | 522.47 | 9.310 | CC |
| AZUL 13-2HZ - KMG WELL - PLAN ONLY | 7,600.00 | 12,395.56 | 585.50 | 522.01 | 9.221 | ES |
| AZUL 13-2HZ - KMG WELL - PLAN ONLY | 7,900.00 | 12,395.56 | 685.36 | 593.43 | 7.455 | SF |
| AZUL 13-3HZ - KMG WELL - PLAN ONLY | 7,782.51 | 12,283.07 | 526.69 | 472.60 | 9.738 | CC |
| AZUL 13-3HZ - KMG WELL - PLAN ONLY | 7,800.00 | 12,283.07 | 526.96 | 471.71 | 9.537 | ES |
| AZUL 13-3HZ - KMG WELL - PLAN ONLY | 8,200.00 | 12,283.07 | 669.98 | 571.89 | 6.831 | SF |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Summary Report

| | | | |
|---------------------------|------------------------------|-------------------------------------|--|
| Company: | Crestone Peak Resources | Local Co-ordinate Reference: | Well LOCHBUIE LAND 2A-25H-D166 - Slot LOCHBUIE LAND 2A-25H-D166 SHL |
| Project: | DJ BASIN | TVD Reference: | KB @ 5101.00usft |
| Reference Site: | S25-T1N-R66W (LOCHBUIE LAND) | MD Reference: | KB @ 5101.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | LOCHBUIE LAND 2A-25H-D166 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Offset Datum |

| Summary | | | | | | |
|--|--|---------------------------------------|--|---|----------------------|--------------|
| Site Name | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| S25-T1N-R66W (LOCHBUIE LAND) | | | | | | |
| AZUL 13-4HZ - KMG WELL - PLAN ONLY | 8,134.11 | 12,546.66 | 526.26 | 464.93 | 8.581 | CC |
| AZUL 13-4HZ - KMG WELL - PLAN ONLY | 8,200.00 | 12,546.66 | 530.37 | 464.08 | 8.001 | ES |
| AZUL 13-4HZ - KMG WELL - PLAN ONLY | 8,500.00 | 12,546.66 | 640.96 | 542.10 | 6.484 | SF |
| AZUL 13-9HZ - KMG WELL - PLAN ONLY | 8,470.92 | 12,663.20 | 554.19 | 482.62 | 7.744 | CC |
| AZUL 13-9HZ - KMG WELL - PLAN ONLY | 8,500.00 | 12,663.20 | 554.96 | 482.17 | 7.624 | ES |
| AZUL 13-9HZ - KMG WELL - PLAN ONLY | 8,800.00 | 12,663.20 | 644.53 | 544.94 | 6.471 | SF |
| BEIERLE 2 - KMG WELL - SURVEYS | 0.00 | 4.94 | 1,555.09 | | | |
| BEIERLE 2 - KMG WELL - SURVEYS | 200.00 | 202.62 | 1,555.25 | 1,554.75 | 3,099.816 | ES |
| BEIERLE 2 - KMG WELL - SURVEYS | 2,800.00 | 2,408.00 | 1,930.17 | 1,921.69 | 227.480 | SF |
| CRONIN 2 - RITTER OIL - NO SURVEYS | 982.10 | 795.00 | 1,532.41 | 1,528.08 | 354.336 | CC, ES |
| CRONIN 2 - RITTER OIL - NO SURVEYS | 1,700.00 | 795.00 | 1,692.23 | 1,686.68 | 304.794 | SF |
| JOHNSON 1N-65W-30-1S - VERDAD RESOURCES LL | | | | | | Out of range |
| JOHNSON 1N-65W-30-2S - VERDAD RESOURCES LL | | | | | | Out of range |
| LOCHBUIE LAND 2B-25H-D166 - OH - PLAN #1 | 200.00 | 200.00 | 10.00 | 9.51 | 20.283 | CC, ES |
| LOCHBUIE LAND 2B-25H-D166 - OH - PLAN #1 | 11,964.88 | 12,114.54 | 265.16 | 28.34 | 1.120 | Level 2, SF |
| LOCHBUIE LAND 2C-25H-D166 - OH - PLAN #1 | 345.39 | 346.20 | 9.92 | 8.91 | 9.852 | CC, ES |
| LOCHBUIE LAND 2C-25H-D166 - OH - PLAN #1 | 11,964.88 | 11,864.95 | 311.77 | 18.20 | 1.062 | Level 2, SF |
| LOCHBUIE LAND 2D-25H-D166 - OH - PLAN #1 | 200.00 | 201.00 | 30.00 | 29.51 | 60.629 | CC, ES |
| LOCHBUIE LAND 2D-25H-D166 - OH - PLAN #1 | 11,964.88 | 11,912.48 | 699.77 | 398.52 | 2.323 | SF |
| LOCHBUIE LAND 2E-25H-D166 - OH - PLAN #1 | 200.00 | 201.00 | 40.00 | 39.51 | 80.839 | CC, ES |
| LOCHBUIE LAND 2E-25H-D166 - OH - PLAN #1 | 11,964.88 | 11,847.40 | 966.35 | 666.89 | 3.227 | SF |
| LOCHBUIE LAND 2F-25H-D166 - OH - PLAN #1 | 200.00 | 201.00 | 50.00 | 49.51 | 101.049 | CC, ES |
| LOCHBUIE LAND 2F-25H-D166 - OH - PLAN #1 | 11,964.88 | 12,086.84 | 1,046.04 | 748.59 | 3.517 | SF |
| LOCHBUIE LAND 2G-25H-D166 - OH - PLAN #1 | 200.00 | 199.00 | 60.00 | 59.51 | 122.137 | CC, ES |
| LOCHBUIE LAND 2G-25H-D166 - OH - PLAN #1 | 11,964.88 | 11,751.32 | 1,319.81 | 1,021.10 | 4.418 | SF |
| LOCHBUIE LAND 2H-25H-D166 - OH - PLAN #1 | 200.00 | 199.00 | 70.00 | 69.51 | 142.494 | CC, ES |
| LOCHBUIE LAND 2H-25H-D166 - OH - PLAN #1 | 11,964.88 | 11,918.36 | 1,359.49 | 1,058.38 | 4.515 | SF |
| LOCHBUIE LAND 2I-25H-D166 - OH - PLAN #1 | 200.00 | 198.00 | 80.00 | 79.51 | 163.442 | CC, ES |
| LOCHBUIE LAND 2I-25H-D166 - OH - PLAN #1 | 11,964.88 | 11,869.94 | 1,625.01 | 1,324.18 | 5.402 | SF |
| LOCHBUIE LAND 2J-25H-D166 - OH - PLAN #1 | 200.00 | 198.00 | 90.00 | 89.51 | 183.872 | CC, ES |
| LOCHBUIE LAND 2J-25H-D166 - OH - PLAN #1 | 11,964.88 | 12,138.40 | 1,869.57 | 1,569.47 | 6.230 | SF |
| LOCHBUIE LAND 2K-25H-D166 - OH - PLAN #1 | 200.00 | 198.00 | 100.00 | 99.51 | 204.303 | CC, ES |
| LOCHBUIE LAND 2K-25H-D166 - OH - PLAN #1 | 7,000.00 | 6,714.23 | 1,931.05 | 1,894.65 | 53.056 | SF |
| LOCHBUIE LAND 2L-25H-D166 - OH - PLAN #1 | 200.00 | 198.00 | 110.00 | 109.51 | 224.733 | CC, ES |
| LOCHBUIE LAND 2L-25H-D166 - OH - PLAN #1 | 6,200.00 | 5,877.06 | 1,930.83 | 1,900.03 | 62.687 | SF |
| SAM 13-25 - CPR WELL - SURVEYS | | | | | | Out of range |
| TEMPLIN 1 - VESSELS THOMAS G - SURVEYS | 11,381.03 | 7,363.56 | 905.57 | 758.02 | 6.138 | CC |
| TEMPLIN 1 - VESSELS THOMAS G - SURVEYS | 11,400.00 | 7,363.47 | 905.77 | 757.71 | 6.118 | ES |
| TEMPLIN 1 - VESSELS THOMAS G - SURVEYS | 11,500.00 | 7,363.05 | 913.35 | 763.53 | 6.096 | SF |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services

Anticollision Summary Report

| | | | |
|---------------------------|------------------------------|-------------------------------------|--|
| Company: | Crestone Peak Resources | Local Co-ordinate Reference: | Well LOCHBUIE LAND 2A-25H-D166 - Slot LOCHBUIE LAND 2A-25H-D166 SHL |
| Project: | DJ BASIN | TVD Reference: | KB @ 5101.00usft |
| Reference Site: | S25-T1N-R66W (LOCHBUIE LAND) | MD Reference: | KB @ 5101.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | LOCHBUIE LAND 2A-25H-D166 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Offset Datum |

| Summary | | | | | | |
|---------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|--------------|
| Site Name | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| S25-T1N-R66W (SAM) | | | | | | |
| SAM 3A-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3A-25H-M166 - OH - SURVEYS | | | | | | Out of range |
| SAM 3B-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3B-25H-M166 - OH - SURVEYS | | | | | | Out of range |
| SAM 3C-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3C-25H-M166 - OH - SURVEYS | | | | | | Out of range |
| SAM 3D-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3E-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3F-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3F-25H-M166 - OH - SURVEYS | | | | | | Out of range |
| SAM 3G-25H-M166 - OH - PLAN #1 | | | | | | Out of range |
| SAM 3H-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3I-25H-M166 - OH - PLAN #3 | | | | | | Out of range |
| SAM 3J-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3K-25H-M166 - OH - PLAN #2 | | | | | | Out of range |
| SAM 3L-25H-M166 - OH - PLAN #2 | | | | | | Out of range |

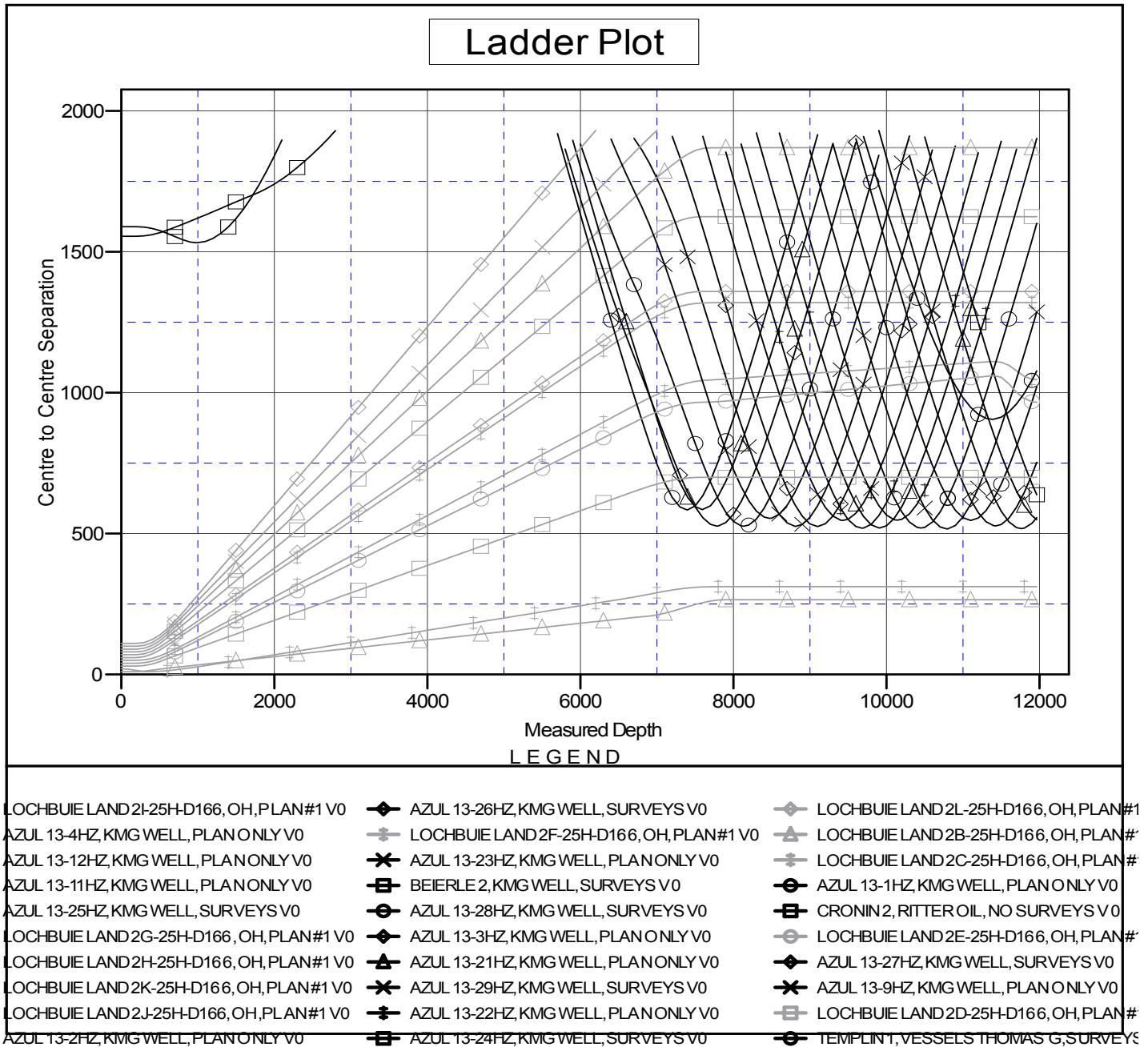
Cathedral Energy Services

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| Reference Site: | S25-T1N-R66W (LOCHBUIE LAND) | MD Reference: | KB @ 5101.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | LOCHBUIE LAND 2A-25H-D166 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | PLAN #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to KB @ 5101.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: LOCHBUIE LAND 2A-25H-D166 - Slot LOCHBUIE LA
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.50°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

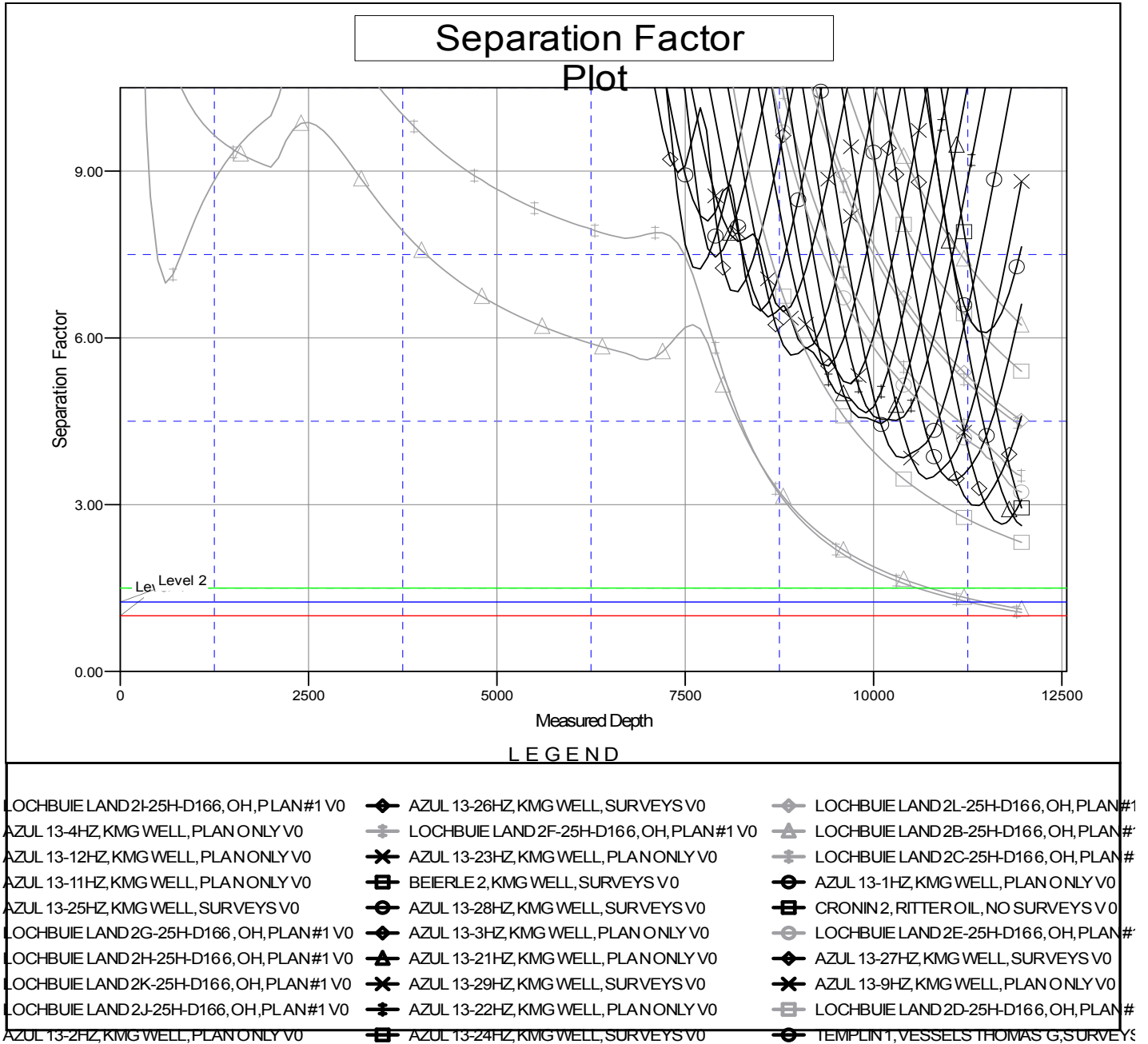
Cathedral Energy Services

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Reference Depths are relative to KB @ 5101.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: LOCHBUIE LAND 2A-25H-D166 - Slot LOCHBUIE LA
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.50°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation