

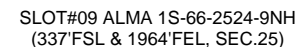
| | |
|--|--|
| Plot reference wellpath is ALMA 1S-66-2524-9NH PWP (REV-A.0) | |
| True vertical depths are referenced to RIG (RKB) Measured depths are referenced to RIG (RKB) RIG (RKB) to Mean Sea Level: 5192 feet Mean Sea Level to Mud line (At Slot: SLOT#09 ALMA 1S-66-2524-9NH (337FSL & 1964FEL, SEC.25): 0 feet Coordinates are in feet referenced to Slot | Grid System NAD83 / Lambert Conformal SP, Northern Zone (SUT), US feet * - Wellpath was transformed from a different geoidic datum North Reference: True north Scale: True distance Depths are in feet Created by: ingnigam on 2016-10-14 Database: WA_DEN_Denver_Data |

| Facility Name | | | | Grid East (US Ft) | Grid North (US Ft) | Latitude | Longitude |
|---|--------------|--------------|-------------------|--------------------|--------------------|-----------------|-----------------|
| SEC 25 TO 15-866W | | | | 3216416.711 | 1215023.151 | 39°52'47.172"N | 104°42'16.176"W |
| Spot | Local N (ft) | Local E (ft) | Grid East (US Ft) | Grid North (US Ft) | Latitude | Longitude | |
| SLOT/GRN ALMA 15-66-2524-9NH (137FSL, 1964FE, SEC 25) | 0.00 | -120.59 | 3218296.126 | 1215222.092 | 39°52'47.172"N | 104°42'17.724"W | |
| RID (RGR) to Mast line (A) Slot: SLOT/GRN ALMA 15-66-2524-9NH (137FSL, 1964FE, SEC 25) | | | | | | | 11920 |
| Mean Sea Level to Mast line (A) Slot: SLOT/GRN ALMA 15-66-2524-9NH (137FSL, 1964FE, SEC 25) | | | | | | | 0ft |
| RID (RGR) to Mean Sea Level | | | | | | | 11920 |

| Design Comment | MD (ft) | Inc (") | Az (") | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
|----------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| Tie On | 14.00 | 0.000 | 202.143 | 14.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| End of Tangent | 1900.00 | 0.000 | 202.143 | 1900.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| End of Build | 2448.93 | 10.979 | 202.143 | 2445.57 | -48.56 | -19.76 | 2.00 | -47.62 |
| End of Tangent | 6914.51 | 10.979 | 202.143 | 6829.43 | -836.27 | -340.31 | 0.00 | -819.99 |
| End of 3D Arc | 7922.50 | 90.606 | 0.480 | 7502.00 | -265.92 | -384.22 | 10.00 | -248.24 |
| End of Tangent | 15296.25 | 90.606 | 0.480 | 7424.00 | 7107.16 | -322.43 | 0.00 | 7114.47 |

| Name | MD (ft) | TWD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
|--|----------|----------|--------------|--------------|-------------------|--------------------|----------------|----------------|
| BEC-24-TIS-RBBW | -3.00 | 0.00 | 120.69 | 321846.71 | 1216223.15 | 39°55'47.172N | 150°42'16.176W | |
| BEC-24-TIS-RBBW SOUTH 1/2 SECTION | -3.00 | 0.00 | 120.69 | 321846.71 | 1216223.15 | 39°55'47.172N | 150°42'16.176W | |
| ALMA 15-66-2504-9HH-CH ON PLAT (D160/F1 & D200/F2, BEC-24) | 15206.25 | 7424.00 | 73107.16 | -33243.41 | 3217011.34 | 1220530.96 | 39°56'57.408N | 150°42'17.860W |
| ALMA 15-66-2524-9HH-ENTRY POINT | 7922.50 | 7932.00 | -385.92 | -384.22 | 3217914.56 | 1217922.81 | 39°55'44.544N | 150°42'22.656W |
| BEC-24(TS-TIS-RBBW) HIGHLIGHTS (460/FN, 1/2 SEC-24) | 7792.00 | 7792.00 | 0.00 | 0.00 | 321846.71 | 1216223.15 | 39°55'47.172N | 150°42'17.176W |

| MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
|----------|---------|--------|----------|--------------|--------------|-------------------|--------------------|----------------|-----------------|
| 15296.25 | 90.606 | 0.480 | 7424.00 | 7107.16 | -322.43 | 3217911.34 | 1225325.94 | 39°56'57.408"N | 104°43'21.864"W |



BGGM (1900.0 to 2018.0) Dip: 66.55° Field: 52266.2 nT
Magnetic North is 8.40 degrees East of True North (at 10/7/2016)

To correct azimuth from Magnetic to True add 8.40 degrees



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 1 of 9



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|---|----------------------|---|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 5.0 |
| North Reference | True | User | Ingmjmr |
| Scale | 0.999972 | Report Generated | 10/14/2016 at 12:43:03 PM |
| Convergence at slot | 0.51° East | Database/Source file | WA_DEN_Denver_Defn/ALMA_1S-66-2524-9NH_PWP_REV-A.0_.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 0.00 | -120.59 | 3218296.13 | 1218222.09 | 39°55'47.172"N | 104°43'17.724"W |
| Facility Reference Pt | | | 3218416.71 | 1218223.15 | 39°55'47.172"N | 104°43'16.176"W |
| Field Reference Pt | | | 3218416.71 | 1218223.15 | 39°55'47.172"N | 104°43'16.176"W |

WELLPATH DATUM

| | | | |
|--------------------------|-------------------|--|-------------------|
| Calculation method | Minimum curvature | RIG (RKB) to Facility Vertical Datum | 5192.00ft |
| Horizontal Reference Pt | Slot | RIG (RKB) to Mean Sea Level | 5192.00ft |
| Vertical Reference Pt | RIG (RKB) | RIG (RKB) to Mud Line at Slot (SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25)) | 5192.00ft |
| MD Reference Pt | RIG (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 357.40° |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 2 of 9



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|----------------|
| 0.00† | 0.000 | 202.143 | 0.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 14.00 | 0.000 | 202.143 | 14.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | Tie On |
| 114.00† | 0.000 | 202.143 | 114.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 214.00† | 0.000 | 202.143 | 214.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 314.00† | 0.000 | 202.143 | 314.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 414.00† | 0.000 | 202.143 | 414.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 514.00† | 0.000 | 202.143 | 514.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 614.00† | 0.000 | 202.143 | 614.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 714.00† | 0.000 | 202.143 | 714.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 814.00† | 0.000 | 202.143 | 814.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 914.00† | 0.000 | 202.143 | 914.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1014.00† | 0.000 | 202.143 | 1014.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1114.00† | 0.000 | 202.143 | 1114.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1214.00† | 0.000 | 202.143 | 1214.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1314.00† | 0.000 | 202.143 | 1314.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1414.00† | 0.000 | 202.143 | 1414.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1514.00† | 0.000 | 202.143 | 1514.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1614.00† | 0.000 | 202.143 | 1614.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1714.00† | 0.000 | 202.143 | 1714.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1814.00† | 0.000 | 202.143 | 1814.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | |
| 1900.00 | 0.000 | 202.143 | 1900.00 | 0.00 | 0.00 | 0.00 | 39°55'47.172"N | 104°43'17.724"W | 0.00 | End of Tangent |
| 1914.00† | 0.280 | 202.143 | 1914.00 | -0.03 | -0.03 | -0.01 | 39°55'47.172"N | 104°43'17.724"W | 2.00 | |
| 2014.00† | 2.280 | 202.143 | 2013.97 | -2.06 | -2.10 | -0.85 | 39°55'47.151"N | 104°43'17.735"W | 2.00 | |
| 2114.00† | 4.280 | 202.143 | 2113.80 | -7.26 | -7.40 | -3.01 | 39°55'47.099"N | 104°43'17.763"W | 2.00 | |
| 2214.00† | 6.280 | 202.143 | 2213.37 | -15.61 | -15.92 | -6.48 | 39°55'47.015"N | 104°43'17.807"W | 2.00 | |
| 2314.00† | 8.280 | 202.143 | 2312.56 | -27.12 | -27.66 | -11.26 | 39°55'46.899"N | 104°43'17.868"W | 2.00 | |
| 2414.00† | 10.280 | 202.143 | 2411.25 | -41.77 | -42.60 | -17.33 | 39°55'46.751"N | 104°43'17.947"W | 2.00 | |
| 2448.93 | 10.979 | 202.143 | 2445.57 | -47.62 | -48.56 | -19.76 | 39°55'46.692"N | 104°43'17.978"W | 2.00 | End of Build |
| 2514.00† | 10.979 | 202.143 | 2509.46 | -58.87 | -60.04 | -24.43 | 39°55'46.579"N | 104°43'18.038"W | 0.00 | |
| 2614.00† | 10.979 | 202.143 | 2607.63 | -76.17 | -77.68 | -31.61 | 39°55'46.404"N | 104°43'18.130"W | 0.00 | |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 3 of 9



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|----------|
| 2714.00† | 10.979 | 202.143 | 2705.80 | -93.46 | -95.32 | -38.79 | 39°55'46.230"N | 104°43'18.222"W | 0.00 | |
| 2814.00† | 10.979 | 202.143 | 2803.97 | -110.76 | -112.96 | -45.97 | 39°55'46.056"N | 104°43'18.314"W | 0.00 | |
| 2914.00† | 10.979 | 202.143 | 2902.14 | -128.06 | -130.60 | -53.15 | 39°55'45.881"N | 104°43'18.406"W | 0.00 | |
| 3014.00† | 10.979 | 202.143 | 3000.31 | -145.35 | -148.24 | -60.32 | 39°55'45.707"N | 104°43'18.498"W | 0.00 | |
| 3114.00† | 10.979 | 202.143 | 3098.48 | -162.65 | -165.88 | -67.50 | 39°55'45.533"N | 104°43'18.590"W | 0.00 | |
| 3214.00† | 10.979 | 202.143 | 3196.65 | -179.94 | -183.52 | -74.68 | 39°55'45.358"N | 104°43'18.683"W | 0.00 | |
| 3314.00† | 10.979 | 202.143 | 3294.82 | -197.24 | -201.16 | -81.86 | 39°55'45.184"N | 104°43'18.775"W | 0.00 | |
| 3414.00† | 10.979 | 202.143 | 3392.98 | -214.54 | -218.80 | -89.04 | 39°55'45.010"N | 104°43'18.867"W | 0.00 | |
| 3514.00† | 10.979 | 202.143 | 3491.15 | -231.83 | -236.44 | -96.22 | 39°55'44.835"N | 104°43'18.959"W | 0.00 | |
| 3614.00† | 10.979 | 202.143 | 3589.32 | -249.13 | -254.08 | -103.39 | 39°55'44.661"N | 104°43'19.051"W | 0.00 | |
| 3714.00† | 10.979 | 202.143 | 3687.49 | -266.43 | -271.72 | -110.57 | 39°55'44.487"N | 104°43'19.143"W | 0.00 | |
| 3814.00† | 10.979 | 202.143 | 3785.66 | -283.72 | -289.35 | -117.75 | 39°55'44.312"N | 104°43'19.235"W | 0.00 | |
| 3914.00† | 10.979 | 202.143 | 3883.83 | -301.02 | -306.99 | -124.93 | 39°55'44.138"N | 104°43'19.328"W | 0.00 | |
| 4014.00† | 10.979 | 202.143 | 3982.00 | -318.31 | -324.63 | -132.11 | 39°55'43.964"N | 104°43'19.420"W | 0.00 | |
| 4114.00† | 10.979 | 202.143 | 4080.17 | -335.61 | -342.27 | -139.28 | 39°55'43.789"N | 104°43'19.512"W | 0.00 | |
| 4214.00† | 10.979 | 202.143 | 4178.34 | -352.91 | -359.91 | -146.46 | 39°55'43.615"N | 104°43'19.604"W | 0.00 | |
| 4314.00† | 10.979 | 202.143 | 4276.51 | -370.20 | -377.55 | -153.64 | 39°55'43.441"N | 104°43'19.696"W | 0.00 | |
| 4414.00† | 10.979 | 202.143 | 4374.68 | -387.50 | -395.19 | -160.82 | 39°55'43.267"N | 104°43'19.788"W | 0.00 | |
| 4514.00† | 10.979 | 202.143 | 4472.85 | -404.79 | -412.83 | -168.00 | 39°55'43.092"N | 104°43'19.880"W | 0.00 | |
| 4614.00† | 10.979 | 202.143 | 4571.02 | -422.09 | -430.47 | -175.18 | 39°55'42.918"N | 104°43'19.973"W | 0.00 | |
| 4714.00† | 10.979 | 202.143 | 4669.19 | -439.39 | -448.11 | -182.35 | 39°55'42.744"N | 104°43'20.065"W | 0.00 | |
| 4814.00† | 10.979 | 202.143 | 4767.36 | -456.68 | -465.75 | -189.53 | 39°55'42.569"N | 104°43'20.157"W | 0.00 | |
| 4914.00† | 10.979 | 202.143 | 4865.53 | -473.98 | -483.39 | -196.71 | 39°55'42.395"N | 104°43'20.249"W | 0.00 | |
| 5014.00† | 10.979 | 202.143 | 4963.70 | -491.27 | -501.03 | -203.89 | 39°55'42.221"N | 104°43'20.341"W | 0.00 | |
| 5114.00† | 10.979 | 202.143 | 5061.87 | -508.57 | -518.67 | -211.07 | 39°55'42.046"N | 104°43'20.433"W | 0.00 | |
| 5214.00† | 10.979 | 202.143 | 5160.04 | -525.87 | -536.31 | -218.24 | 39°55'41.872"N | 104°43'20.525"W | 0.00 | |
| 5314.00† | 10.979 | 202.143 | 5258.21 | -543.16 | -553.95 | -225.42 | 39°55'41.698"N | 104°43'20.618"W | 0.00 | |
| 5414.00† | 10.979 | 202.143 | 5356.38 | -560.46 | -571.59 | -232.60 | 39°55'41.523"N | 104°43'20.710"W | 0.00 | |
| 5514.00† | 10.979 | 202.143 | 5454.55 | -577.75 | -589.23 | -239.78 | 39°55'41.349"N | 104°43'20.802"W | 0.00 | |
| 5614.00† | 10.979 | 202.143 | 5552.72 | -595.05 | -606.87 | -246.96 | 39°55'41.175"N | 104°43'20.894"W | 0.00 | |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 4 of 9



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|----------------|
| 5714.00† | 10.979 | 202.143 | 5650.89 | -612.35 | -624.51 | -254.14 | 39°55'41.000"N | 104°43'20.986"W | 0.00 | |
| 5814.00† | 10.979 | 202.143 | 5749.06 | -629.64 | -642.14 | -261.31 | 39°55'40.826"N | 104°43'21.078"W | 0.00 | |
| 5914.00† | 10.979 | 202.143 | 5847.23 | -646.94 | -659.78 | -268.49 | 39°55'40.652"N | 104°43'21.170"W | 0.00 | |
| 6014.00† | 10.979 | 202.143 | 5945.40 | -664.23 | -677.42 | -275.67 | 39°55'40.477"N | 104°43'21.263"W | 0.00 | |
| 6114.00† | 10.979 | 202.143 | 6043.57 | -681.53 | -695.06 | -282.85 | 39°55'40.303"N | 104°43'21.355"W | 0.00 | |
| 6214.00† | 10.979 | 202.143 | 6141.74 | -698.83 | -712.70 | -290.03 | 39°55'40.129"N | 104°43'21.447"W | 0.00 | |
| 6314.00† | 10.979 | 202.143 | 6239.91 | -716.12 | -730.34 | -297.21 | 39°55'39.954"N | 104°43'21.539"W | 0.00 | |
| 6414.00† | 10.979 | 202.143 | 6338.08 | -733.42 | -747.98 | -304.38 | 39°55'39.780"N | 104°43'21.631"W | 0.00 | |
| 6514.00† | 10.979 | 202.143 | 6436.25 | -750.71 | -765.62 | -311.56 | 39°55'39.606"N | 104°43'21.723"W | 0.00 | |
| 6614.00† | 10.979 | 202.143 | 6534.42 | -768.01 | -783.26 | -318.74 | 39°55'39.431"N | 104°43'21.815"W | 0.00 | |
| 6714.00† | 10.979 | 202.143 | 6632.59 | -785.31 | -800.90 | -325.92 | 39°55'39.257"N | 104°43'21.908"W | 0.00 | |
| 6814.00† | 10.979 | 202.143 | 6730.76 | -802.60 | -818.54 | -333.10 | 39°55'39.083"N | 104°43'22.000"W | 0.00 | |
| 6914.00† | 10.979 | 202.143 | 6828.93 | -819.90 | -836.18 | -340.27 | 39°55'38.908"N | 104°43'22.092"W | 0.00 | |
| 6914.51 | 10.979 | 202.143 | 6829.43 | -819.99 | -836.27 | -340.31 | 39°55'38.908"N | 104°43'22.092"W | 0.00 | End of Tangent |
| 7014.00† | 4.111 | 267.060 | 6928.13 | -828.63 | -845.25 | -347.46 | 39°55'38.819"N | 104°43'22.184"W | 10.00 | |
| 7114.00† | 10.578 | 337.843 | 7027.40 | -819.98 | -836.91 | -354.52 | 39°55'38.901"N | 104°43'22.275"W | 10.00 | |
| 7214.00† | 20.163 | 349.169 | 7123.73 | -794.21 | -811.42 | -361.24 | 39°55'39.153"N | 104°43'22.361"W | 10.00 | |
| 7314.00† | 30.014 | 353.302 | 7214.20 | -752.10 | -769.54 | -367.41 | 39°55'39.567"N | 104°43'22.440"W | 10.00 | |
| 7414.00† | 39.934 | 355.520 | 7296.04 | -694.93 | -712.56 | -372.85 | 39°55'40.130"N | 104°43'22.510"W | 10.00 | |
| 7514.00† | 49.882 | 356.971 | 7366.77 | -624.44 | -642.20 | -377.39 | 39°55'40.825"N | 104°43'22.568"W | 10.00 | |
| 7614.00† | 59.844 | 358.048 | 7424.26 | -542.77 | -560.60 | -380.89 | 39°55'41.632"N | 104°43'22.613"W | 10.00 | |
| 7714.00† | 69.812 | 358.925 | 7466.74 | -452.40 | -470.25 | -383.25 | 39°55'42.525"N | 104°43'22.643"W | 10.00 | |
| 7814.00† | 79.785 | 359.696 | 7492.93 | -356.07 | -373.88 | -384.39 | 39°55'43.477"N | 104°43'22.658"W | 10.00 | |
| 7914.00† | 89.759 | 0.419 | 7502.03 | -256.72 | -274.42 | -384.29 | 39°55'44.460"N | 104°43'22.657"W | 10.00 | |
| 7922.50 | 90.606 | 0.480 | 7502.00† | -248.24 | -265.92 | -384.22 | 39°55'44.544"N | 104°43'22.656"W | 10.00 | End of 3D Arc |
| 8014.00† | 90.606 | 0.480 | 7501.03 | -156.87 | -174.43 | -383.45 | 39°55'45.448"N | 104°43'22.646"W | 0.00 | |
| 8114.00† | 90.606 | 0.480 | 7499.97 | -57.02 | -74.44 | -382.62 | 39°55'46.436"N | 104°43'22.635"W | 0.00 | |
| 8214.00† | 90.606 | 0.480 | 7498.92 | 42.83 | 25.55 | -381.78 | 39°55'47.425"N | 104°43'22.625"W | 0.00 | |
| 8314.00† | 90.606 | 0.480 | 7497.86 | 142.68 | 125.55 | -380.94 | 39°55'48.413"N | 104°43'22.614"W | 0.00 | |
| 8414.00† | 90.606 | 0.480 | 7496.80 | 242.53 | 225.54 | -380.10 | 39°55'49.401"N | 104°43'22.603"W | 0.00 | |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 5 of 9



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|----------|
| 8514.00† | 90.606 | 0.480 | 7495.74 | 342.38 | 325.53 | -379.26 | 39°55'50.389"N | 104°43'22.592"W | 0.00 | |
| 8614.00† | 90.606 | 0.480 | 7494.69 | 442.23 | 425.52 | -378.43 | 39°55'51.377"N | 104°43'22.582"W | 0.00 | |
| 8714.00† | 90.606 | 0.480 | 7493.63 | 542.08 | 525.51 | -377.59 | 39°55'52.365"N | 104°43'22.571"W | 0.00 | |
| 8814.00† | 90.606 | 0.480 | 7492.57 | 641.93 | 625.50 | -376.75 | 39°55'53.353"N | 104°43'22.560"W | 0.00 | |
| 8914.00† | 90.606 | 0.480 | 7491.51 | 741.78 | 725.49 | -375.91 | 39°55'54.342"N | 104°43'22.550"W | 0.00 | |
| 9014.00† | 90.606 | 0.480 | 7490.45 | 841.63 | 825.48 | -375.07 | 39°55'55.330"N | 104°43'22.539"W | 0.00 | |
| 9114.00† | 90.606 | 0.480 | 7489.40 | 941.48 | 925.47 | -374.24 | 39°55'56.318"N | 104°43'22.528"W | 0.00 | |
| 9214.00† | 90.606 | 0.480 | 7488.34 | 1041.33 | 1025.46 | -373.40 | 39°55'57.306"N | 104°43'22.517"W | 0.00 | |
| 9314.00† | 90.606 | 0.480 | 7487.28 | 1141.18 | 1125.45 | -372.56 | 39°55'58.294"N | 104°43'22.507"W | 0.00 | |
| 9414.00† | 90.606 | 0.480 | 7486.22 | 1241.03 | 1225.45 | -371.72 | 39°55'59.282"N | 104°43'22.496"W | 0.00 | |
| 9514.00† | 90.606 | 0.480 | 7485.16 | 1340.88 | 1325.44 | -370.88 | 39°56'00.271"N | 104°43'22.485"W | 0.00 | |
| 9614.00† | 90.606 | 0.480 | 7484.11 | 1440.73 | 1425.43 | -370.05 | 39°56'01.259"N | 104°43'22.474"W | 0.00 | |
| 9714.00† | 90.606 | 0.480 | 7483.05 | 1540.58 | 1525.42 | -369.21 | 39°56'02.247"N | 104°43'22.464"W | 0.00 | |
| 9814.00† | 90.606 | 0.480 | 7481.99 | 1640.43 | 1625.41 | -368.37 | 39°56'03.235"N | 104°43'22.453"W | 0.00 | |
| 9914.00† | 90.606 | 0.480 | 7480.93 | 1740.28 | 1725.40 | -367.53 | 39°56'04.223"N | 104°43'22.442"W | 0.00 | |
| 10014.00† | 90.606 | 0.480 | 7479.88 | 1840.13 | 1825.39 | -366.69 | 39°56'05.211"N | 104°43'22.431"W | 0.00 | |
| 10114.00† | 90.606 | 0.480 | 7478.82 | 1939.98 | 1925.38 | -365.86 | 39°56'06.199"N | 104°43'22.421"W | 0.00 | |
| 10214.00† | 90.606 | 0.480 | 7477.76 | 2039.83 | 2025.37 | -365.02 | 39°56'07.188"N | 104°43'22.410"W | 0.00 | |
| 10314.00† | 90.606 | 0.480 | 7476.70 | 2139.68 | 2125.36 | -364.18 | 39°56'08.176"N | 104°43'22.399"W | 0.00 | |
| 10414.00† | 90.606 | 0.480 | 7475.64 | 2239.53 | 2225.35 | -363.34 | 39°56'09.164"N | 104°43'22.388"W | 0.00 | |
| 10514.00† | 90.606 | 0.480 | 7474.59 | 2339.38 | 2325.35 | -362.50 | 39°56'10.152"N | 104°43'22.378"W | 0.00 | |
| 10614.00† | 90.606 | 0.480 | 7473.53 | 2439.23 | 2425.34 | -361.67 | 39°56'11.140"N | 104°43'22.367"W | 0.00 | |
| 10714.00† | 90.606 | 0.480 | 7472.47 | 2539.08 | 2525.33 | -360.83 | 39°56'12.128"N | 104°43'22.356"W | 0.00 | |
| 10814.00† | 90.606 | 0.480 | 7471.41 | 2638.94 | 2625.32 | -359.99 | 39°56'13.117"N | 104°43'22.345"W | 0.00 | |
| 10914.00† | 90.606 | 0.480 | 7470.36 | 2738.79 | 2725.31 | -359.15 | 39°56'14.105"N | 104°43'22.335"W | 0.00 | |
| 11014.00† | 90.606 | 0.480 | 7469.30 | 2838.64 | 2825.30 | -358.31 | 39°56'15.093"N | 104°43'22.324"W | 0.00 | |
| 11114.00† | 90.606 | 0.480 | 7468.24 | 2938.49 | 2925.29 | -357.47 | 39°56'16.081"N | 104°43'22.313"W | 0.00 | |
| 11214.00† | 90.606 | 0.480 | 7467.18 | 3038.34 | 3025.28 | -356.64 | 39°56'17.069"N | 104°43'22.303"W | 0.00 | |
| 11314.00† | 90.606 | 0.480 | 7466.12 | 3138.19 | 3125.27 | -355.80 | 39°56'18.057"N | 104°43'22.292"W | 0.00 | |
| 11414.00† | 90.606 | 0.480 | 7465.07 | 3238.04 | 3225.26 | -354.96 | 39°56'19.045"N | 104°43'22.281"W | 0.00 | |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 6 of 9



**BAKER
HUGHES**

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|----------|
| 11514.00† | 90.606 | 0.480 | 7464.01 | 3337.89 | 3325.25 | -354.12 | 39°56'20.034"N | 104°43'22.270"W | 0.00 | |
| 11614.00† | 90.606 | 0.480 | 7462.95 | 3437.74 | 3425.25 | -353.28 | 39°56'21.022"N | 104°43'22.260"W | 0.00 | |
| 11714.00† | 90.606 | 0.480 | 7461.89 | 3537.59 | 3525.24 | -352.45 | 39°56'22.010"N | 104°43'22.249"W | 0.00 | |
| 11814.00† | 90.606 | 0.480 | 7460.84 | 3637.44 | 3625.23 | -351.61 | 39°56'22.998"N | 104°43'22.238"W | 0.00 | |
| 11914.00† | 90.606 | 0.480 | 7459.78 | 3737.29 | 3725.22 | -350.77 | 39°56'23.986"N | 104°43'22.227"W | 0.00 | |
| 12014.00† | 90.606 | 0.480 | 7458.72 | 3837.14 | 3825.21 | -349.93 | 39°56'24.974"N | 104°43'22.217"W | 0.00 | |
| 12114.00† | 90.606 | 0.480 | 7457.66 | 3936.99 | 3925.20 | -349.09 | 39°56'25.963"N | 104°43'22.206"W | 0.00 | |
| 12214.00† | 90.606 | 0.480 | 7456.60 | 4036.84 | 4025.19 | -348.26 | 39°56'26.951"N | 104°43'22.195"W | 0.00 | |
| 12314.00† | 90.606 | 0.480 | 7455.55 | 4136.69 | 4125.18 | -347.42 | 39°56'27.939"N | 104°43'22.184"W | 0.00 | |
| 12414.00† | 90.606 | 0.480 | 7454.49 | 4236.54 | 4225.17 | -346.58 | 39°56'28.927"N | 104°43'22.174"W | 0.00 | |
| 12514.00† | 90.606 | 0.480 | 7453.43 | 4336.39 | 4325.16 | -345.74 | 39°56'29.915"N | 104°43'22.163"W | 0.00 | |
| 12614.00† | 90.606 | 0.480 | 7452.37 | 4436.24 | 4425.15 | -344.90 | 39°56'30.903"N | 104°43'22.152"W | 0.00 | |
| 12714.00† | 90.606 | 0.480 | 7451.32 | 4536.09 | 4525.14 | -344.07 | 39°56'31.891"N | 104°43'22.141"W | 0.00 | |
| 12814.00† | 90.606 | 0.480 | 7450.26 | 4635.94 | 4625.14 | -343.23 | 39°56'32.880"N | 104°43'22.131"W | 0.00 | |
| 12914.00† | 90.606 | 0.480 | 7449.20 | 4735.79 | 4725.13 | -342.39 | 39°56'33.868"N | 104°43'22.120"W | 0.00 | |
| 13014.00† | 90.606 | 0.480 | 7448.14 | 4835.64 | 4825.12 | -341.55 | 39°56'34.856"N | 104°43'22.109"W | 0.00 | |
| 13114.00† | 90.606 | 0.480 | 7447.08 | 4935.49 | 4925.11 | -340.71 | 39°56'35.844"N | 104°43'22.098"W | 0.00 | |
| 13214.00† | 90.606 | 0.480 | 7446.03 | 5035.34 | 5025.10 | -339.88 | 39°56'36.832"N | 104°43'22.088"W | 0.00 | |
| 13314.00† | 90.606 | 0.480 | 7444.97 | 5135.19 | 5125.09 | -339.04 | 39°56'37.820"N | 104°43'22.077"W | 0.00 | |
| 13414.00† | 90.606 | 0.480 | 7443.91 | 5235.04 | 5225.08 | -338.20 | 39°56'38.809"N | 104°43'22.066"W | 0.00 | |
| 13514.00† | 90.606 | 0.480 | 7442.85 | 5334.89 | 5325.07 | -337.36 | 39°56'39.797"N | 104°43'22.055"W | 0.00 | |
| 13614.00† | 90.606 | 0.480 | 7441.79 | 5434.74 | 5425.06 | -336.52 | 39°56'40.785"N | 104°43'22.045"W | 0.00 | |
| 13714.00† | 90.606 | 0.480 | 7440.74 | 5534.59 | 5525.05 | -335.69 | 39°56'41.773"N | 104°43'22.034"W | 0.00 | |
| 13814.00† | 90.606 | 0.480 | 7439.68 | 5634.44 | 5625.04 | -334.85 | 39°56'42.761"N | 104°43'22.023"W | 0.00 | |
| 13914.00† | 90.606 | 0.480 | 7438.62 | 5734.29 | 5725.04 | -334.01 | 39°56'43.749"N | 104°43'22.013"W | 0.00 | |
| 14014.00† | 90.606 | 0.480 | 7437.56 | 5834.14 | 5825.03 | -333.17 | 39°56'44.737"N | 104°43'22.002"W | 0.00 | |
| 14114.00† | 90.606 | 0.480 | 7436.51 | 5933.99 | 5925.02 | -332.33 | 39°56'45.726"N | 104°43'21.991"W | 0.00 | |
| 14214.00† | 90.606 | 0.480 | 7435.45 | 6033.84 | 6025.01 | -331.50 | 39°56'46.714"N | 104°43'21.980"W | 0.00 | |
| 14314.00† | 90.606 | 0.480 | 7434.39 | 6133.69 | 6125.00 | -330.66 | 39°56'47.702"N | 104°43'21.970"W | 0.00 | |
| 14414.00† | 90.606 | 0.480 | 7433.33 | 6233.54 | 6224.99 | -329.82 | 39°56'48.690"N | 104°43'21.959"W | 0.00 | |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 7 of 9



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|----------------------|-------------------|---------------|--------------|----------------|-----------------|------------------|----------------|
| 14514.00† | 90.606 | 0.480 | 7432.27 | 6333.39 | 6324.98 | -328.98 | 39°56'49.678"N | 104°43'21.948"W | 0.00 | |
| 14614.00† | 90.606 | 0.480 | 7431.22 | 6433.24 | 6424.97 | -328.14 | 39°56'50.666"N | 104°43'21.937"W | 0.00 | |
| 14714.00† | 90.606 | 0.480 | 7430.16 | 6533.09 | 6524.96 | -327.31 | 39°56'51.655"N | 104°43'21.927"W | 0.00 | |
| 14814.00† | 90.606 | 0.480 | 7429.10 | 6632.94 | 6624.95 | -326.47 | 39°56'52.643"N | 104°43'21.916"W | 0.00 | |
| 14914.00† | 90.606 | 0.480 | 7428.04 | 6732.79 | 6724.94 | -325.63 | 39°56'53.631"N | 104°43'21.905"W | 0.00 | |
| 15014.00† | 90.606 | 0.480 | 7426.99 | 6832.64 | 6824.94 | -324.79 | 39°56'54.619"N | 104°43'21.894"W | 0.00 | |
| 15114.00† | 90.606 | 0.480 | 7425.93 | 6932.49 | 6924.93 | -323.95 | 39°56'55.607"N | 104°43'21.884"W | 0.00 | |
| 15214.00† | 90.606 | 0.480 | 7424.87 | 7032.34 | 7024.92 | -323.12 | 39°56'56.595"N | 104°43'21.873"W | 0.00 | |
| 15296.25 | 90.606 | 0.480 | 7424.00 ² | 7114.47 | 7107.16 | -322.43 | 39°56'57.408"N | 104°43'21.864"W | 0.00 | End of Tangent |

TARGETS

| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|--|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|---------|
| SEC.24-T1S-R66W | | -3.00 | 0.00 | 120.59 | 3218416.71 | 1218223.15 | 39°55'47.172"N | 104°43'16.176"W | polygon |
| SEC.24-T1S-R66W SOUTH 1/2 SECTION | | -3.00 | 0.00 | 120.59 | 3218416.71 | 1218223.15 | 39°55'47.172"N | 104°43'16.176"W | polygon |
| SEC.25-T1S-R66W | | -3.00 | 0.00 | 120.59 | 3218416.71 | 1218223.15 | 39°55'47.172"N | 104°43'16.176"W | polygon |
| 2) ALMA 1S-66-2524-9NH BHL ON PLAT (2160'FSL & 2290'FEL, SEC.24) | 15296.25 | 7424.00 | 7107.16 | -322.43 | 3217911.34 | 1225325.94 | 39°56'57.408"N | 104°43'21.864"W | point |
| 1) ALMA 1S-66-2524-9NH ENTRY POINT | 7922.50 | 7502.00 | -265.92 | -384.22 | 3217914.26 | 1217952.81 | 39°55'44.544"N | 104°43'22.656"W | point |
| SEC.24/25-T1S-R66W HARDLINES (460'FNL 1/2 SEC.24) | | 7797.00 | 0.00 | 120.59 | 3218416.71 | 1218223.15 | 39°55'47.172"N | 104°43'16.176"W | polygon |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 8 of 9



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

SURVEY PROGRAM -

Ref Wellbore: ALMA 1S-66-2524-9NH PWB Ref Wellpath: ALMA 1S-66-2524-9NH PWP (REV-A.0)

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|------------------|----------------|--|---------------------|-------------------------|
| 14.00 | 15296.25 | Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model) | | ALMA 1S-66-2524-9NH PWB |



Resources Limited

Planned Wellpath Report

ALMA 1S-66-2524-9NH PWP (REV-A.0)

Page 9 of 9



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|------------------|----------|--|
| Operator | HRM RESOURCES | Slot | SLOT#09 ALMA 1S-66-2524-9NH (337'FSL & 1964'FEL, SEC.25) |
| Area | COLORADO | Well | ALMA 1S-66-2524-9NH |
| Field | ADAMS COUNTY | Wellbore | ALMA 1S-66-2524-9NH PWB |
| Facility | SEC.25-T01S-R66W | | |

DESIGN COMMENTS

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|------------|--------------------|----------------|-------------|----------------|
| 14.00 | 0.000 | 202.143 | 14.00 | Tie On |
| 1900.00 | 0.000 | 202.143 | 1900.00 | End of Tangent |
| 2448.93 | 10.979 | 202.143 | 2445.57 | End of Build |
| 6914.51 | 10.979 | 202.143 | 6829.43 | End of Tangent |
| 7922.50 | 90.606 | 0.480 | 7502.00 | End of 3D Arc |
| 15296.25 | 90.606 | 0.480 | 7424.00 | End of Tangent |