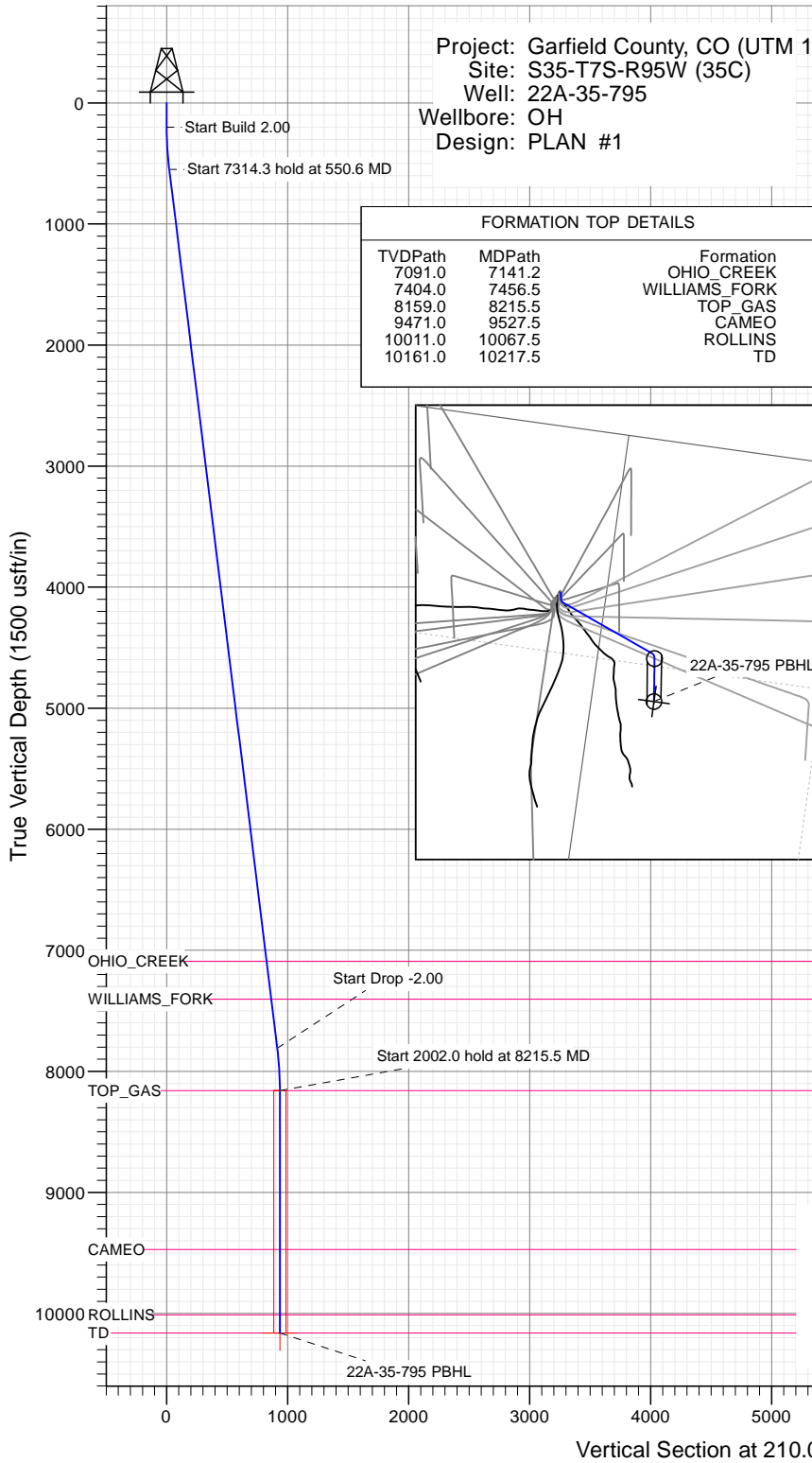




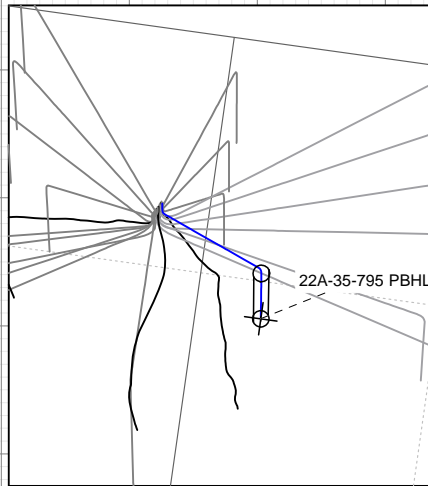
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	550.6	7.01	210.04	549.7	-18.5	-10.7	2.00	210.04	21.4	
4	7864.9	7.01	210.04	7809.3	-791.5	-457.8	0.00	0.00	914.3	
5	8215.5	0.00	0.00	8159.0	-810.0	-468.5	2.00	180.00	935.7	
6	10217.5	0.00	0.00	10161.0	-810.0	-468.5	0.00	0.00	935.7	22A-35-795 PBHL

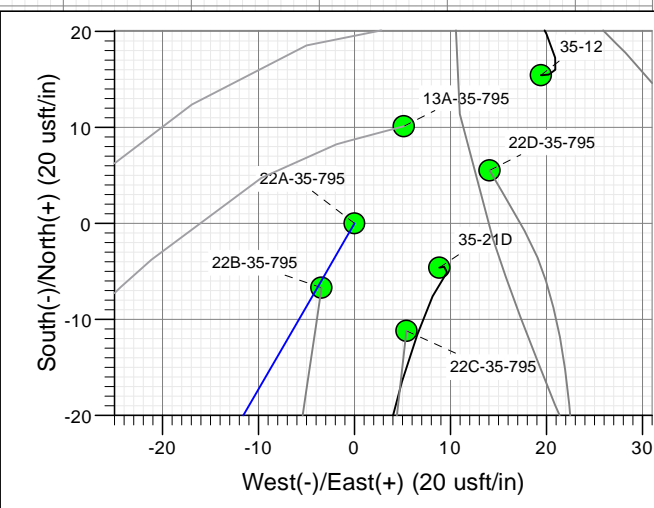
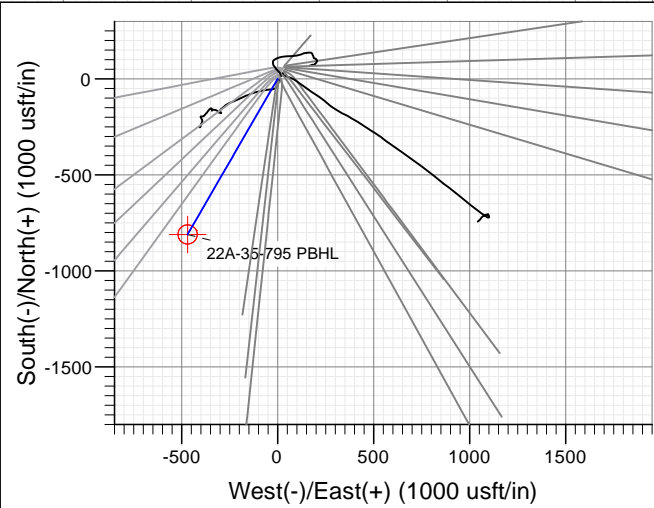
Project: Garfield County, CO (UTM 1
Site: S35-T7S-R95W (35C)
Well: 22A-35-795
Wellbore: OH
Design: PLAN #1



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
7091.0	7141.2	OHIO_CREEK
7404.0	7456.5	WILLIAMS_FORK
8159.0	8215.5	TOP_GAS
9471.0	9527.5	CAMEO
10011.0	10067.5	ROLLINS
10161.0	10217.5	TD

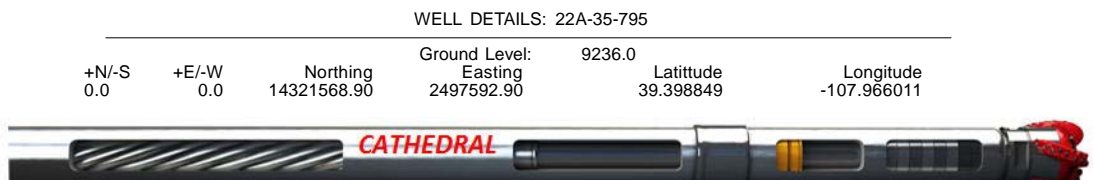


PLAN #1 22A-35-795 18XXX-LR 30' KB @ 9266.0usft Ground Level @ 9236.0 NAD 1927 - Western US Well 22A-35-795, True North						
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	210.04	Slot	0.0	0.0	0.0
Name		TVD				
22A-35-795 PBHL		10161.0		+N/-S -810.0	+E/-W -468.5	Latitude 39.398849 Longitude -107.966011



Azimuths to True North
Magnetic North: 9.43°
Magnetic Field
Strength: 51875.1snT
Dip Angle: 65.62°
Date: 1/18/2016
Model: HDGM

CASING DETAILS
No casing data is available



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 22A-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	22A-35-795	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Garfield County, CO (UTM 12N)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	S35-T7S-R95W (35C)		
Site Position:		Northing:	14,321,562.10 usft
From:	Map	Easting:	2,497,589.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	39.398831
		Longitude:	-107.966023
		Grid Convergence:	1.93 °

Well	22A-35-795		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	39.398849
		Longitude:	-107.966011
		Ground Level:	9,236.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	1/18/2016	9.43	65.62	51,875

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	210.04

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
550.6	7.01	210.04	549.7	-18.5	-10.7	2.00	2.00	0.00	210.04	
7,864.9	7.01	210.04	7,809.3	-791.5	-457.8	0.00	0.00	0.00	0.00	
8,215.5	0.00	0.00	8,159.0	-810.0	-468.5	2.00	-2.00	0.00	180.00	
10,217.5	0.00	0.00	10,161.0	-810.0	-468.5	0.00	0.00	0.00	0.00	22A-35-795 PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 22A-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	22A-35-795	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #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 (°/100u)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	Start Build 2.00
300.0	2.00	210.04	300.0	-1.5	-0.9	1.7	2.00	2.00	
400.0	4.00	210.04	399.8	-6.0	-3.5	7.0	2.00	2.00	
500.0	6.00	210.04	499.5	-13.6	-7.9	15.7	2.00	2.00	
550.6	7.01	210.04	549.7	-18.5	-10.7	21.4	2.00	2.00	Start 7314.3 hold at 550.6 MD
600.0	7.01	210.04	598.8	-23.8	-13.7	27.5	0.00	0.00	
700.0	7.01	210.04	698.0	-34.3	-19.9	39.7	0.00	0.00	
800.0	7.01	210.04	797.3	-44.9	-26.0	51.9	0.00	0.00	
900.0	7.01	210.04	896.5	-55.5	-32.1	64.1	0.00	0.00	
1,000.0	7.01	210.04	995.8	-66.0	-38.2	76.3	0.00	0.00	
1,100.0	7.01	210.04	1,095.0	-76.6	-44.3	88.5	0.00	0.00	
1,200.0	7.01	210.04	1,194.3	-87.2	-50.4	100.7	0.00	0.00	
1,300.0	7.01	210.04	1,293.5	-97.7	-56.5	112.9	0.00	0.00	
1,400.0	7.01	210.04	1,392.8	-108.3	-62.6	125.1	0.00	0.00	
1,500.0	7.01	210.04	1,492.0	-118.9	-68.8	137.3	0.00	0.00	
1,600.0	7.01	210.04	1,591.3	-129.4	-74.9	149.5	0.00	0.00	
1,700.0	7.01	210.04	1,690.5	-140.0	-81.0	161.7	0.00	0.00	
1,800.0	7.01	210.04	1,789.8	-150.6	-87.1	173.9	0.00	0.00	
1,900.0	7.01	210.04	1,889.0	-161.1	-93.2	186.2	0.00	0.00	
2,000.0	7.01	210.04	1,988.3	-171.7	-99.3	198.4	0.00	0.00	
2,100.0	7.01	210.04	2,087.5	-182.3	-105.4	210.6	0.00	0.00	
2,200.0	7.01	210.04	2,186.8	-192.8	-111.5	222.8	0.00	0.00	
2,300.0	7.01	210.04	2,286.0	-203.4	-117.7	235.0	0.00	0.00	
2,400.0	7.01	210.04	2,385.3	-214.0	-123.8	247.2	0.00	0.00	
2,500.0	7.01	210.04	2,484.5	-224.5	-129.9	259.4	0.00	0.00	
2,600.0	7.01	210.04	2,583.8	-235.1	-136.0	271.6	0.00	0.00	
2,700.0	7.01	210.04	2,683.1	-245.7	-142.1	283.8	0.00	0.00	
2,800.0	7.01	210.04	2,782.3	-256.2	-148.2	296.0	0.00	0.00	
2,900.0	7.01	210.04	2,881.6	-266.8	-154.3	308.2	0.00	0.00	
3,000.0	7.01	210.04	2,980.8	-277.4	-160.4	320.4	0.00	0.00	
3,100.0	7.01	210.04	3,080.1	-287.9	-166.5	332.6	0.00	0.00	
3,200.0	7.01	210.04	3,179.3	-298.5	-172.7	344.9	0.00	0.00	
3,300.0	7.01	210.04	3,278.6	-309.1	-178.8	357.1	0.00	0.00	
3,400.0	7.01	210.04	3,377.8	-319.6	-184.9	369.3	0.00	0.00	
3,500.0	7.01	210.04	3,477.1	-330.2	-191.0	381.5	0.00	0.00	
3,600.0	7.01	210.04	3,576.3	-340.8	-197.1	393.7	0.00	0.00	
3,700.0	7.01	210.04	3,675.6	-351.4	-203.2	405.9	0.00	0.00	
3,800.0	7.01	210.04	3,774.8	-361.9	-209.3	418.1	0.00	0.00	
3,900.0	7.01	210.04	3,874.1	-372.5	-215.4	430.3	0.00	0.00	
4,000.0	7.01	210.04	3,973.3	-383.1	-221.6	442.5	0.00	0.00	
4,100.0	7.01	210.04	4,072.6	-393.6	-227.7	454.7	0.00	0.00	
4,200.0	7.01	210.04	4,171.8	-404.2	-233.8	466.9	0.00	0.00	
4,300.0	7.01	210.04	4,271.1	-414.8	-239.9	479.1	0.00	0.00	
4,400.0	7.01	210.04	4,370.3	-425.3	-246.0	491.3	0.00	0.00	
4,500.0	7.01	210.04	4,469.6	-435.9	-252.1	503.5	0.00	0.00	
4,600.0	7.01	210.04	4,568.8	-446.5	-258.2	515.8	0.00	0.00	
4,700.0	7.01	210.04	4,668.1	-457.0	-264.3	528.0	0.00	0.00	
4,800.0	7.01	210.04	4,767.3	-467.6	-270.5	540.2	0.00	0.00	
4,900.0	7.01	210.04	4,866.6	-478.2	-276.6	552.4	0.00	0.00	
5,000.0	7.01	210.04	4,965.8	-488.7	-282.7	564.6	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 22A-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	22A-35-795	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #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 (°/100u)	Comments / Formations
5,100.0	7.01	210.04	5,065.1	-499.3	-288.8	576.8	0.00	0.00	
5,200.0	7.01	210.04	5,164.4	-509.9	-294.9	589.0	0.00	0.00	
5,300.0	7.01	210.04	5,263.6	-520.4	-301.0	601.2	0.00	0.00	
5,400.0	7.01	210.04	5,362.9	-531.0	-307.1	613.4	0.00	0.00	
5,500.0	7.01	210.04	5,462.1	-541.6	-313.2	625.6	0.00	0.00	
5,600.0	7.01	210.04	5,561.4	-552.1	-319.3	637.8	0.00	0.00	
5,700.0	7.01	210.04	5,660.6	-562.7	-325.5	650.0	0.00	0.00	
5,800.0	7.01	210.04	5,759.9	-573.3	-331.6	662.2	0.00	0.00	
5,900.0	7.01	210.04	5,859.1	-583.8	-337.7	674.5	0.00	0.00	
6,000.0	7.01	210.04	5,958.4	-594.4	-343.8	686.7	0.00	0.00	
6,100.0	7.01	210.04	6,057.6	-605.0	-349.9	698.9	0.00	0.00	
6,200.0	7.01	210.04	6,156.9	-615.5	-356.0	711.1	0.00	0.00	
6,300.0	7.01	210.04	6,256.1	-626.1	-362.1	723.3	0.00	0.00	
6,400.0	7.01	210.04	6,355.4	-636.7	-368.2	735.5	0.00	0.00	
6,500.0	7.01	210.04	6,454.6	-647.2	-374.4	747.7	0.00	0.00	
6,600.0	7.01	210.04	6,553.9	-657.8	-380.5	759.9	0.00	0.00	
6,700.0	7.01	210.04	6,653.1	-668.4	-386.6	772.1	0.00	0.00	
6,800.0	7.01	210.04	6,752.4	-678.9	-392.7	784.3	0.00	0.00	
6,900.0	7.01	210.04	6,851.6	-689.5	-398.8	796.5	0.00	0.00	
7,000.0	7.01	210.04	6,950.9	-700.1	-404.9	808.7	0.00	0.00	
7,100.0	7.01	210.04	7,050.1	-710.6	-411.0	820.9	0.00	0.00	
7,141.2	7.01	210.04	7,091.0	-715.0	-413.5	826.0	0.00	0.00	OHIO_CREEK
7,200.0	7.01	210.04	7,149.4	-721.2	-417.1	833.1	0.00	0.00	
7,300.0	7.01	210.04	7,248.6	-731.8	-423.2	845.4	0.00	0.00	
7,400.0	7.01	210.04	7,347.9	-742.3	-429.4	857.6	0.00	0.00	
7,456.5	7.01	210.04	7,404.0	-748.3	-432.8	864.5	0.00	0.00	WILLIAMS_FORK
7,500.0	7.01	210.04	7,447.2	-752.9	-435.5	869.8	0.00	0.00	
7,600.0	7.01	210.04	7,546.4	-763.5	-441.6	882.0	0.00	0.00	
7,700.0	7.01	210.04	7,645.7	-774.0	-447.7	894.2	0.00	0.00	
7,800.0	7.01	210.04	7,744.9	-784.6	-453.8	906.4	0.00	0.00	
7,864.9	7.01	210.04	7,809.3	-791.5	-457.8	914.3	0.00	0.00	Start Drop -2.00
7,900.0	6.31	210.04	7,844.2	-795.0	-459.8	918.4	2.00	-2.00	
8,000.0	4.31	210.04	7,943.8	-803.0	-464.4	927.6	2.00	-2.00	
8,100.0	2.31	210.04	8,043.6	-808.0	-467.3	933.4	2.00	-2.00	
8,200.0	0.31	210.04	8,143.5	-810.0	-468.5	935.7	2.00	-2.00	
8,215.5	0.00	0.00	8,159.0	-810.0	-468.5	935.7	2.00	-2.00	Start 2002.0 hold at 8215.5 MD - TOP_GAS
8,300.0	0.00	0.00	8,243.5	-810.0	-468.5	935.7	0.00	0.00	
8,400.0	0.00	0.00	8,343.5	-810.0	-468.5	935.7	0.00	0.00	
8,500.0	0.00	0.00	8,443.5	-810.0	-468.5	935.7	0.00	0.00	
8,600.0	0.00	0.00	8,543.5	-810.0	-468.5	935.7	0.00	0.00	
8,700.0	0.00	0.00	8,643.5	-810.0	-468.5	935.7	0.00	0.00	
8,800.0	0.00	0.00	8,743.5	-810.0	-468.5	935.7	0.00	0.00	
8,900.0	0.00	0.00	8,843.5	-810.0	-468.5	935.7	0.00	0.00	
9,000.0	0.00	0.00	8,943.5	-810.0	-468.5	935.7	0.00	0.00	
9,100.0	0.00	0.00	9,043.5	-810.0	-468.5	935.7	0.00	0.00	
9,200.0	0.00	0.00	9,143.5	-810.0	-468.5	935.7	0.00	0.00	
9,300.0	0.00	0.00	9,243.5	-810.0	-468.5	935.7	0.00	0.00	
9,400.0	0.00	0.00	9,343.5	-810.0	-468.5	935.7	0.00	0.00	
9,500.0	0.00	0.00	9,443.5	-810.0	-468.5	935.7	0.00	0.00	
9,527.5	0.00	0.00	9,471.0	-810.0	-468.5	935.7	0.00	0.00	CAMEO
9,600.0	0.00	0.00	9,543.5	-810.0	-468.5	935.7	0.00	0.00	
9,700.0	0.00	0.00	9,643.5	-810.0	-468.5	935.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 22A-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	22A-35-795	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #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 (°/100u)	Comments / Formations
9,800.0	0.00	0.00	9,743.5	-810.0	-468.5	935.7	0.00	0.00	
9,900.0	0.00	0.00	9,843.5	-810.0	-468.5	935.7	0.00	0.00	
10,000.0	0.00	0.00	9,943.5	-810.0	-468.5	935.7	0.00	0.00	
10,067.5	0.00	0.00	10,011.0	-810.0	-468.5	935.7	0.00	0.00	ROLLINS
10,100.0	0.00	0.00	10,043.5	-810.0	-468.5	935.7	0.00	0.00	
10,200.0	0.00	0.00	10,143.5	-810.0	-468.5	935.7	0.00	0.00	
10,217.5	0.00	0.00	10,161.0	-810.0	-468.5	935.7	0.00	0.00	TD at 10217.5 - TD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
22A-35-795 PBHL	0.00	0.00	10,161.0	-810.0	-468.5	14,320,743.60	2,497,151.90	39.396627	-107.967668
- plan hits target center									
- Circle (radius 50.0)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,141.2	7,091.0	OHIO_CREEK				
7,456.5	7,404.0	WILLIAMS_FORK				
8,215.5	8,159.0	TOP_GAS				
9,527.5	9,471.0	CAMEO		0.00		
10,067.5	10,011.0	ROLLINS				
10,217.5	10,161.0	TD				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
200.0	200.0	0.0	0.0	Start Build 2.00
550.6	549.7	-18.5	-10.7	Start 7314.3 hold at 550.6 MD
7,864.9	7,809.3	-791.5	-457.8	Start Drop -2.00
8,215.5	8,159.0	-810.0	-468.5	Start 2002.0 hold at 8215.5 MD
10,217.5	10,161.0	-810.0	-468.5	TD at 10217.5