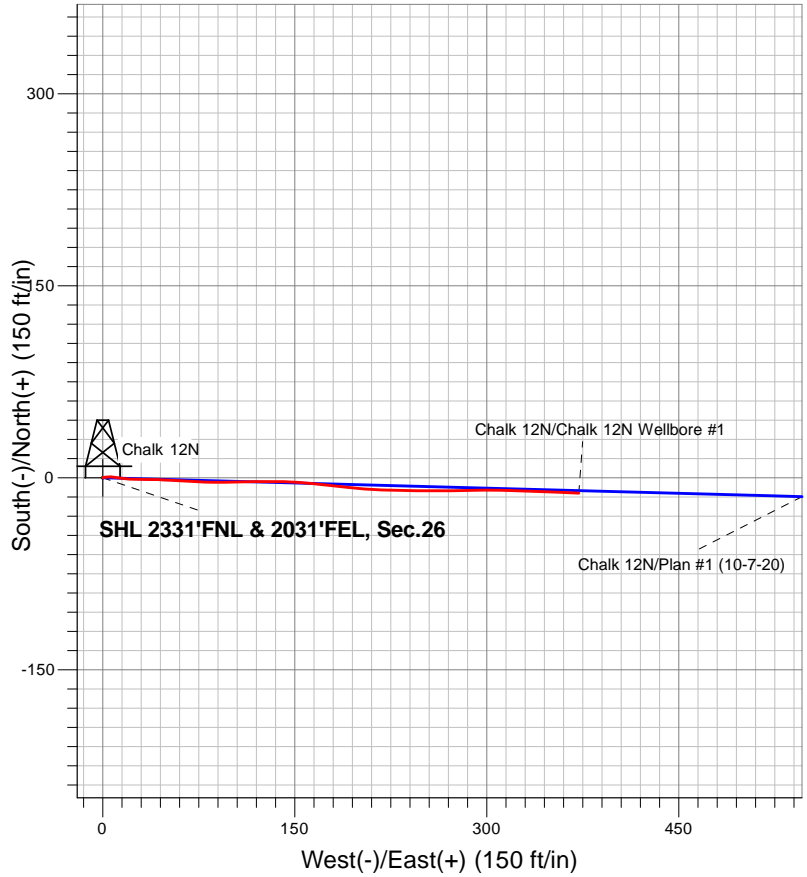


PDC Energy Inc. DJ Basin

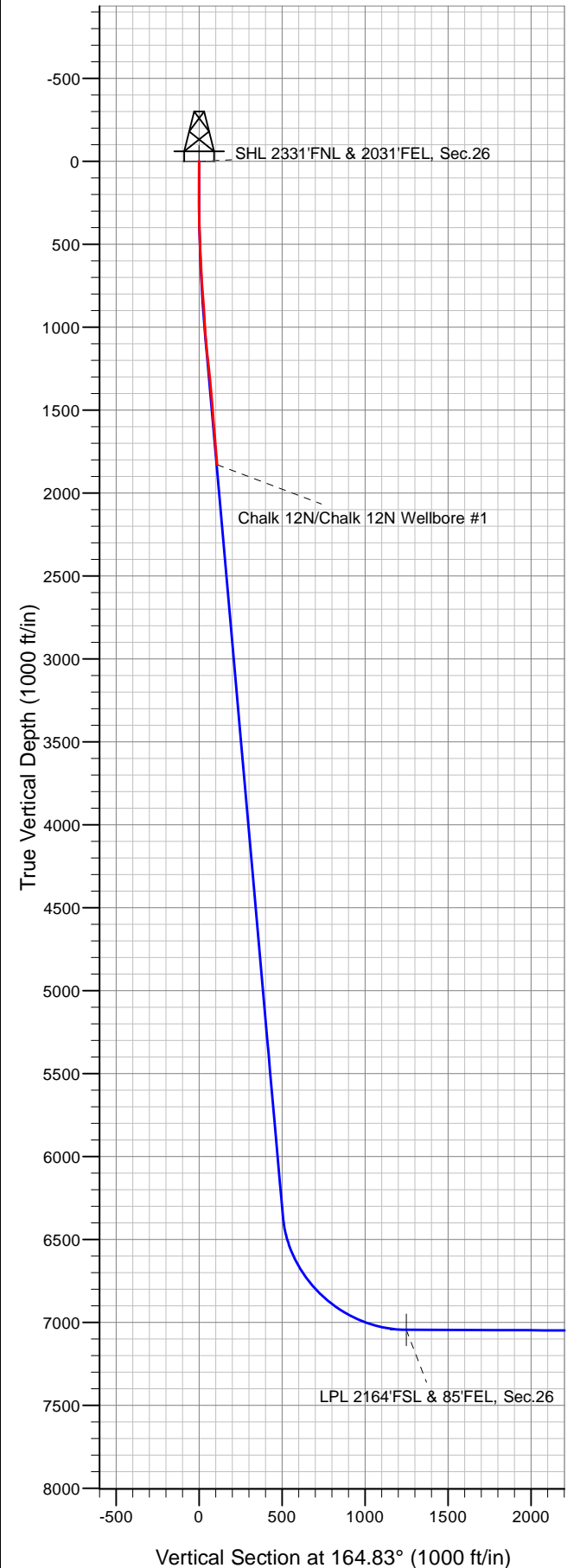


LEGEND

- Chalk 12N, Chalk 12N Wellbore #1, Plan #1 (10-7-20) V0
- Chalk 12N Wellbore #1

Final Survey Plot

Project: SEC.26-T6N-R66W
 Site: Chalk 6N66W26 Pad Sec.26-T6N-R66W
 Well: Chalk 12N
 Plan: Chalk 12N Wellbore #1





PDC Energy Inc. DJ Basin

SEC.26-T6N-R66W

Chalk 6N66W26 Pad Sec.26-T6N-R66W

Chalk 12N

Chalk 12N Wellbore #1

Design: Chalk 12N Wellbore #1

Standard Survey Report

05 January, 2021

Company:	PDC Energy Inc. DJ Basin	Local Co-ordinate Reference:	Well Chalk 12N
Project:	SEC.26-T6N-R66W	TVD Reference:	WELL @ 4709.0ft (Ensign 122 RKB - 13')
Site:	Chalk 6N66W26 Pad Sec.26-T6N-R66W	MD Reference:	WELL @ 4709.0ft (Ensign 122 RKB - 13')
Well:	Chalk 12N	North Reference:	True
Wellbore:	Chalk 12N Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Chalk 12N Wellbore #1	Database:	US_EDM

Project	SEC.26-T6N-R66W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		Chalk 6N66W26 Pad Sec.26-T6N-R66W			
Site Position:		Northing:	1,411,386.54 usft	Latitude:	40.460184
From:	Lat/Long	Easting:	3,210,881.08 usft	Longitude:	-104.742143
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	Chalk 12N					
Well Position	+N/-S	0.0 ft	Northing:	1,411,386.53 usft	Latitude:	40.460184
	+E/-W	0.0 ft	Easting:	3,210,881.08 usft	Longitude:	-104.742143
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,696.0 ft

Wellbore	Chalk 12N Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/07/2020	7.93	66.80	52,092

Design	Chalk 12N Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	164.83	

Survey Program	Date	01/05/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
146.0	1,878.0	Survey #1 (Chalk 12N Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
146.0	0.09	330.31	146.0	0.1	-0.1	-0.1	0.06	0.06	0.00
236.0	1.32	74.20	236.0	0.4	0.9	-0.2	1.49	1.37	115.43
360.0	3.69	91.60	359.9	0.7	6.3	0.9	1.99	1.91	14.03
449.0	5.72	99.86	448.6	-0.1	13.5	3.6	2.40	2.28	9.28
539.0	7.56	91.60	538.0	-1.1	23.8	7.3	2.30	2.04	-9.18
629.0	9.76	90.72	626.9	-1.3	37.4	11.1	2.45	2.44	-0.98
718.0	11.78	93.18	714.4	-1.9	54.0	16.0	2.33	2.27	2.76
807.0	12.93	93.36	801.3	-3.0	73.0	22.0	1.29	1.29	0.20
896.0	15.12	89.67	887.6	-3.5	94.6	28.1	2.66	2.46	-4.15

Company:	PDC Energy Inc. DJ Basin	Local Co-ordinate Reference:	Well Chalk 12N
Project:	SEC.26-T6N-R66W	TVD Reference:	WELL @ 4709.0ft (Ensign 122 RKB - 13')
Site:	Chalk 6N66W26 Pad Sec.26-T6N-R66W	MD Reference:	WELL @ 4709.0ft (Ensign 122 RKB - 13')
Well:	Chalk 12N	North Reference:	True
Wellbore:	Chalk 12N Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Chalk 12N Wellbore #1	Database:	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
985.0	15.04	88.26	973.6	-3.1	117.7	33.8	0.42	-0.09	-1.58
1,075.0	15.39	91.43	1,060.4	-3.0	141.3	39.9	1.00	0.39	3.52
1,164.0	16.80	96.00	1,145.9	-4.7	165.9	47.9	2.13	1.58	5.13
1,254.0	16.62	96.52	1,232.1	-7.5	191.6	57.4	0.26	-0.20	0.58
1,343.0	17.67	91.95	1,317.2	-9.4	217.8	66.1	1.92	1.18	-5.13
1,432.0	18.29	91.07	1,401.8	-10.1	245.3	74.0	0.76	0.70	-0.99
1,522.0	17.23	88.61	1,487.5	-10.1	272.7	81.1	1.44	-1.18	-2.73
1,611.0	16.53	89.67	1,572.7	-9.7	298.5	87.5	0.86	-0.79	1.19
1,700.0	15.56	91.95	1,658.2	-10.0	323.1	94.2	1.30	-1.09	2.56
1,818.0	16.09	92.66	1,771.8	-11.3	355.3	103.9	0.48	0.45	0.60
1,878.0	16.09	92.66	1,829.4	-12.1	371.9	109.0	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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