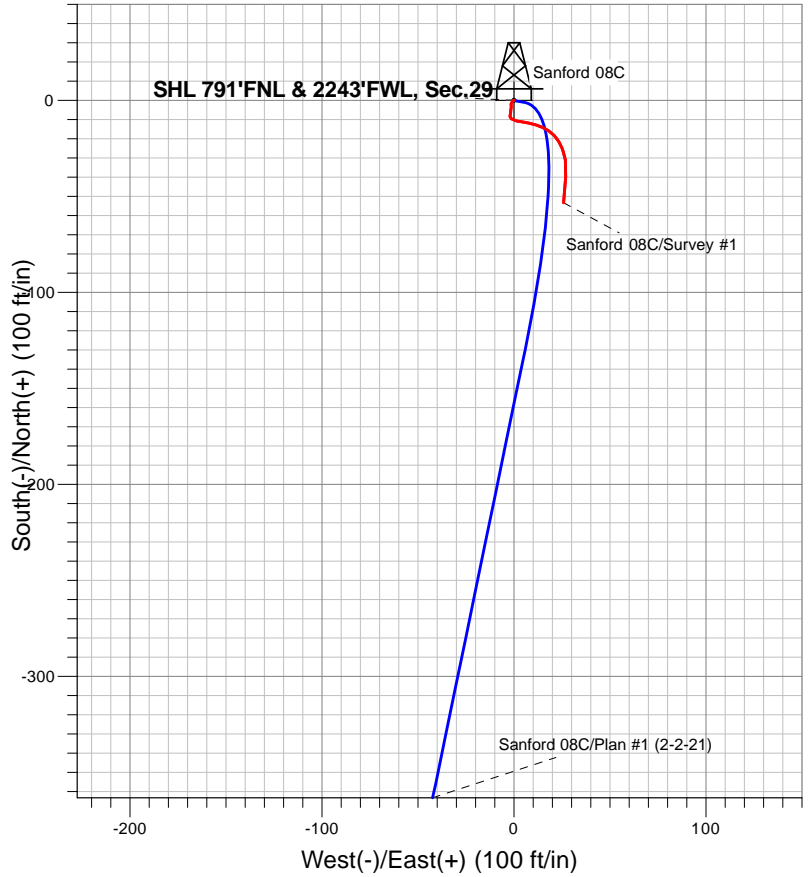


PDC Energy Inc. DJ Basin

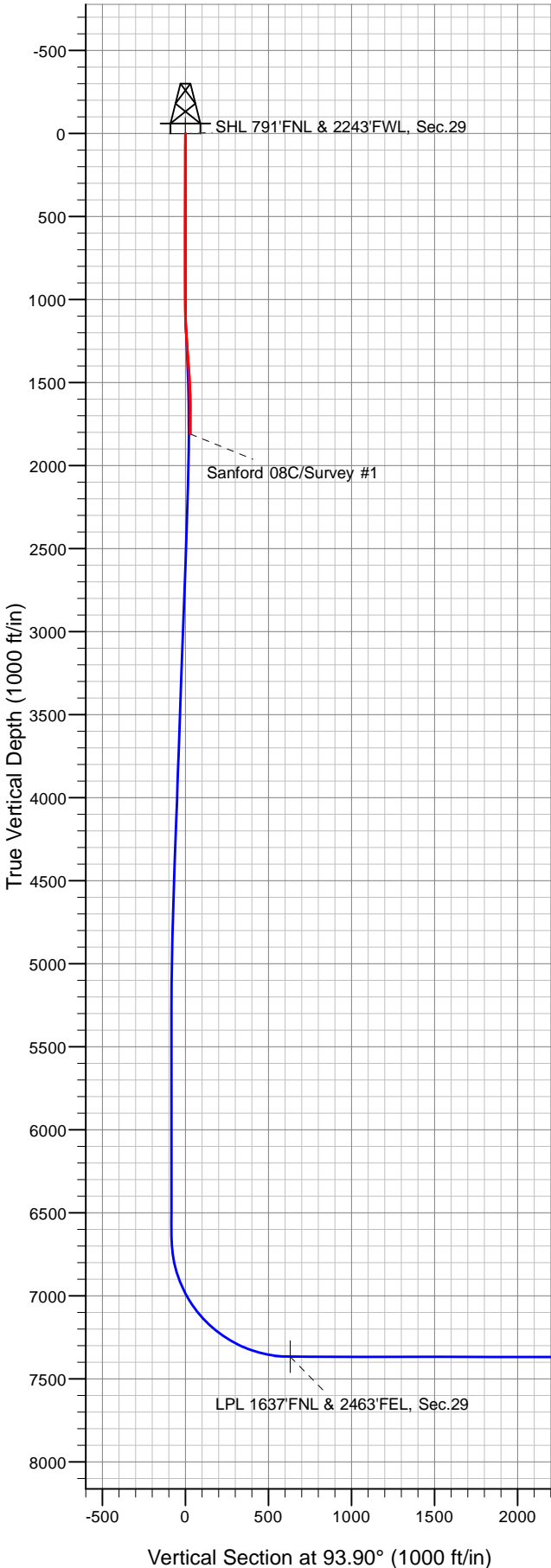


LEGEND

- Sanford 08C, Sanford 08C Wellbore #1, Plan #1 (2-2-21) V0
- Sanford 08C Wellbore #1
- Survey #1

Final Survey Plot

Project: SEC.29-T5N-R66W
 Site: Sanford 5N65W29 1-12 Pad Sec.29-T5N-R66W
 Well: Sanford 08C
 Plan: Sanford 08C Wellbore #1





PDC Energy Inc. DJ Basin

SEC.29-T5N-R66W

Sanford 5N65W29 1-12 Pad Sec.29-T5N-R66W

Sanford 08C

Sanford 08C Wellbore #1

Survey: Survey #1

Standard Survey Report

01 March, 2021

Company:	PDC Energy Inc. DJ Basin	Local Co-ordinate Reference:	Well Sanford 08C
Project:	SEC.29-T5N-R66W	TVD Reference:	WELL @ 4918.0ft (Ensign 122 RKB - 13')
Site:	Sanford 5N65W29 1-12 Pad Sec.29-T5N-R66W	MD Reference:	WELL @ 4918.0ft (Ensign 122 RKB - 13')
Well:	Sanford 08C	North Reference:	True
Wellbore:	Sanford 08C Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Sanford 08C Wellbore #1	Database:	US_EDM

Project	SEC.29-T5N-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	Sanford 5N65W29 1-12 Pad Sec.29-T5N-R66W				
Site Position:		Northing:	1,380,603.61 usft	Latitude:	40.376075
From:	Lat/Long	Easting:	3,193,654.99 usft	Longitude:	-104.804914
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	Sanford 08C					
Well Position	+N/-S	0.0 ft	Northing:	1,380,423.66 usft	Latitude:	40.375581
	+E/-W	0.0 ft	Easting:	3,193,657.51 usft	Longitude:	-104.804910
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,905.0 ft

Wellbore	Sanford 08C Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	02/02/2021	8.07	66.70	52,030

Design	Sanford 08C 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 (°)	
	7,383.0	0.0	0.0	93.90	

Survey Program	Date	03/01/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
87.0	1,813.0	Survey #1 (Sanford 08C 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	
87.0	0.35	248.19	87.0	-0.1	-0.2	-0.2	0.40	0.40	0.00	
178.0	0.35	211.45	178.0	-0.4	-0.6	-0.6	0.24	0.00	-40.37	
269.0	0.62	218.30	269.0	-1.1	-1.1	-1.0	0.30	0.30	7.53	
361.0	0.35	183.85	361.0	-1.7	-1.4	-1.3	0.42	-0.29	-37.45	
447.0	0.62	174.53	447.0	-2.5	-1.4	-1.2	0.33	0.31	-10.84	
536.0	0.53	177.00	536.0	-3.3	-1.3	-1.1	0.10	-0.10	2.78	
625.0	0.44	198.44	625.0	-4.1	-1.4	-1.1	0.23	-0.10	24.09	
715.0	0.70	187.89	715.0	-5.0	-1.6	-1.3	0.31	0.29	-11.72	
804.0	0.79	187.02	804.0	-6.1	-1.8	-1.3	0.10	0.10	-0.98	

Company:	PDC Energy Inc. DJ Basin	Local Co-ordinate Reference:	Well Sanford 08C
Project:	SEC.29-T5N-R66W	TVD Reference:	WELL @ 4918.0ft (Ensign 122 RKB - 13')
Site:	Sanford 5N65W29 1-12 Pad Sec.29-T5N-R66W	MD Reference:	WELL @ 4918.0ft (Ensign 122 RKB - 13')
Well:	Sanford 08C	North Reference:	True
Wellbore:	Sanford 08C Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Sanford 08C 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)	
893.0	0.70	185.95	893.0	-7.3	-1.9	-1.4	0.10	-0.10	-1.20	
976.0	0.79	190.36	976.0	-8.3	-2.0	-1.5	0.13	0.11	5.31	
1,065.0	1.32	128.66	1,064.9	-9.6	-1.4	-0.7	1.32	0.60	-69.33	
1,154.0	2.55	103.17	1,153.9	-10.7	1.4	2.1	1.65	1.38	-28.64	
1,244.0	4.57	98.25	1,243.7	-11.6	6.9	7.7	2.27	2.24	-5.47	
1,333.0	4.84	112.48	1,332.4	-13.6	13.9	14.7	1.34	0.30	15.99	
1,419.0	4.75	131.12	1,418.1	-17.3	19.9	21.0	1.81	-0.10	21.67	
1,509.0	5.01	155.02	1,507.8	-23.3	24.4	25.9	2.26	0.29	26.56	
1,599.0	5.45	170.49	1,597.4	-31.1	26.7	28.8	1.64	0.49	17.19	
1,685.0	6.16	185.26	1,683.0	-39.7	27.0	29.6	1.92	0.83	17.17	
1,753.0	6.07	184.38	1,750.6	-46.9	26.4	29.5	0.19	-0.13	-1.29	
1,813.0	6.07	184.38	1,810.3	-53.3	25.9	29.4	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____