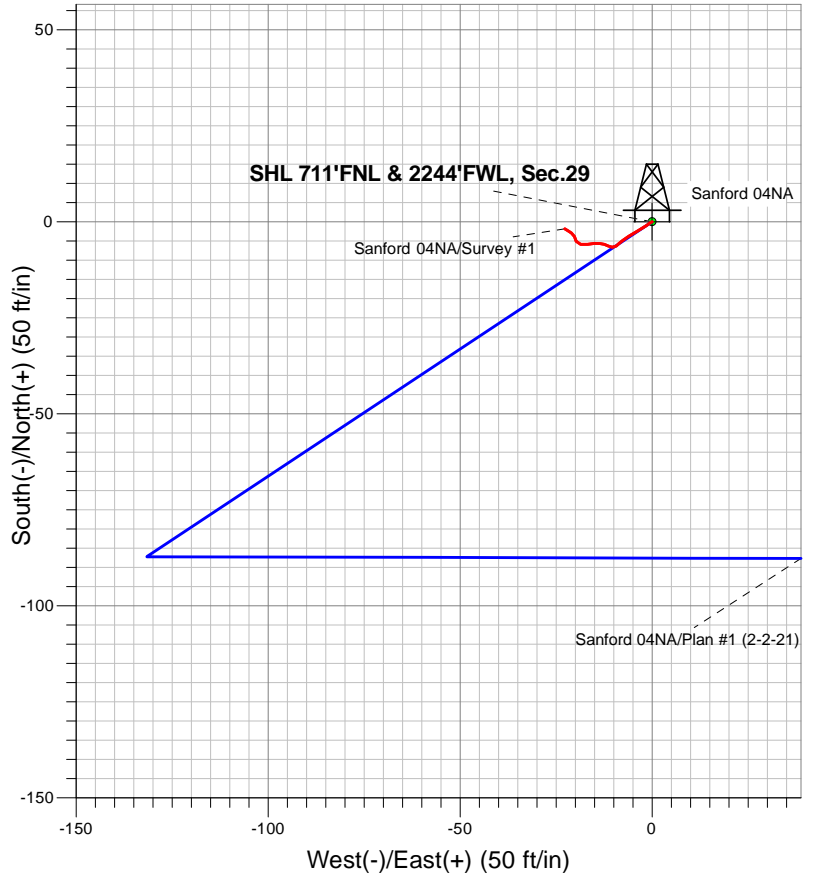


PDC Energy Inc. DJ Basin

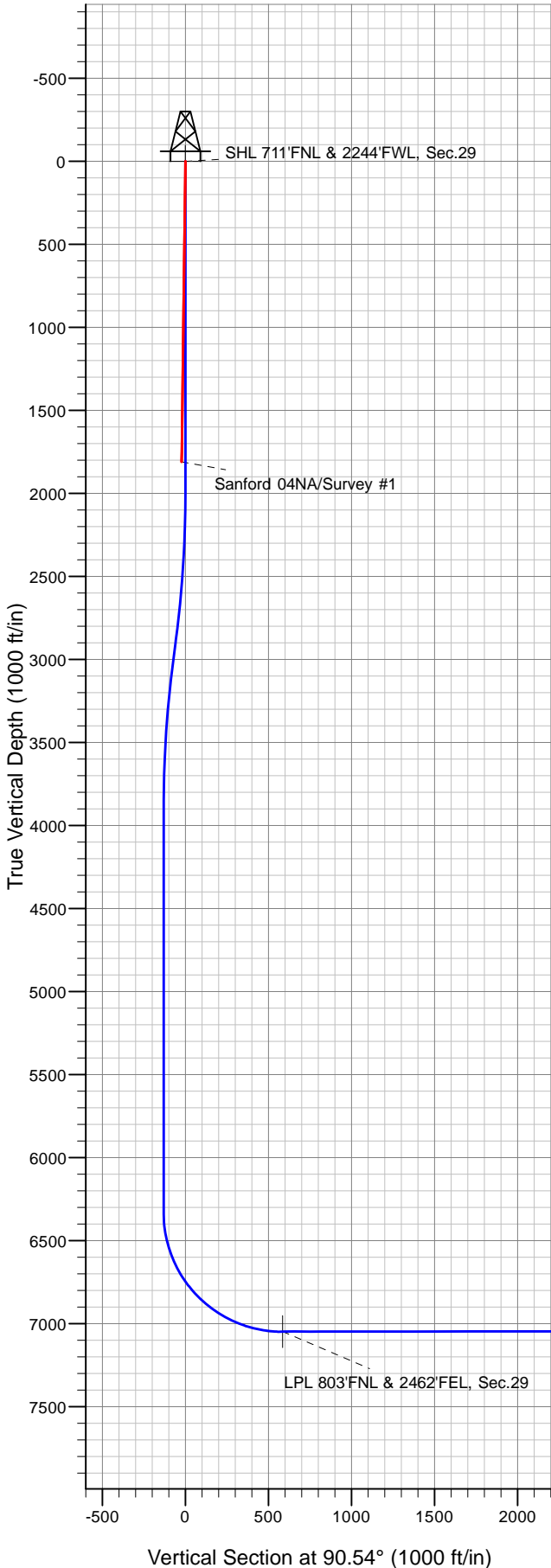


LEGEND

- ▲ Sanford 04NA, Sanford 04NA Wellbore #1, Plan #1 (2-2-21) V0
- Sanford 04NA Wellbore #1
- Survey #1

Final Survey Plot

Project: SEC.29-T5N-R66W
 Site: Sanford 5N65W29 1-12 Pad Sec.29-T5N-R66W
 Well: Sanford 04NA
 Plan: Sanford 04NA Wellbore #1





PDC Energy Inc. DJ Basin

SEC.29-T5N-R66W

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

Sanford 04NA

Sanford 04NA Wellbore #1

Survey: Survey #1

Standard Survey Report

01 March, 2021

Company:	PDC Energy Inc. DJ Basin	Local Co-ordinate Reference:	Well Sanford 04NA
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 04NA	North Reference:	True
Wellbore:	Sanford 04NA Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Sanford 04NA 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 04NA					
Well Position	+N/-S	0.0 ft	Northing:	1,380,503.79 usft	Latitude:	40.375801
	+E/-W	0.0 ft	Easting:	3,193,656.33 usft	Longitude:	-104.804912
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,905.0 ft

Wellbore	Sanford 04NA 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 04NA 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	90.54	

Survey Program	Date	03/01/2021			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
87.0	1,810.0	Survey #1 (Sanford 04NA 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	0.53	243.97	87.0	-0.2	-0.4	-0.4	0.61	0.61	0.00
178.0	0.62	228.85	178.0	-0.7	-1.1	-1.1	0.19	0.10	-16.62
269.0	1.06	238.70	269.0	-1.4	-2.2	-2.2	0.51	0.48	10.82
361.0	1.14	237.46	361.0	-2.4	-3.7	-3.7	0.09	0.09	-1.35
447.0	1.32	239.75	446.9	-3.3	-5.3	-5.2	0.22	0.21	2.66
536.0	0.79	242.39	535.9	-4.1	-6.7	-6.7	0.60	-0.60	2.97
626.0	0.53	225.51	625.9	-4.7	-7.6	-7.5	0.36	-0.29	-18.76
715.0	0.88	229.20	714.9	-5.5	-8.4	-8.3	0.40	0.39	4.15
804.0	0.79	229.55	803.9	-6.3	-9.3	-9.3	0.10	-0.10	0.39

Company:	PDC Energy Inc. DJ Basin	Local Co-ordinate Reference:	Well Sanford 04NA
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 04NA	North Reference:	True
Wellbore:	Sanford 04NA Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Sanford 04NA 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	276.49	892.9	-6.6	-10.4	-10.3	0.67	-0.10	52.74
976.0	0.79	298.46	975.9	-6.3	-11.4	-11.3	0.36	0.11	26.47
1,065.0	0.70	283.34	1,064.9	-5.9	-12.4	-12.4	0.24	-0.10	-16.99
1,154.0	0.79	278.95	1,153.9	-5.7	-13.6	-13.5	0.12	0.10	-4.93
1,244.0	1.06	266.12	1,243.9	-5.6	-15.0	-15.0	0.38	0.30	-14.26
1,333.0	1.32	259.44	1,332.9	-5.9	-16.8	-16.8	0.33	0.29	-7.51
1,419.0	1.14	281.41	1,418.8	-5.9	-18.6	-18.6	0.58	-0.21	25.55
1,509.0	0.88	340.65	1,508.8	-5.1	-19.8	-19.7	1.14	-0.29	65.82
1,599.0	0.79	338.01	1,598.8	-3.8	-20.2	-20.2	0.11	-0.10	-2.93
1,685.0	0.88	300.22	1,684.8	-2.9	-21.0	-21.0	0.64	0.10	-43.94
1,750.0	0.97	304.61	1,749.8	-2.4	-21.9	-21.9	0.18	0.14	6.75
1,810.0	0.97	304.61	1,809.8	-1.8	-22.7	-22.7	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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