



Occidental Petroleum

Weld County, CO (UTM-NAD83)

1N-66W-26 (Beierle 2-26HZ Pad)

Beierle 26-15HZ

OH

Design: OH

Standard Survey Report

04 January, 2021





Total Directional Services

Survey Report



Company:	Occidental Petroleum	Local Co-ordinate Reference:	Well Beierle 26-15HZ
Project:	Weld County, CO (UTM-NAD83)	TVD Reference:	5119' GE + 5' KB @ 5124.00usft
Site:	1N-66W-26 (Beierle 2-26HZ Pad)	MD Reference:	5119' GE + 5' KB @ 5124.00usft
Well:	Beierle 26-15HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Project	Weld County, CO (UTM-NAD83)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	1N-66W-26 (Beierle 2-26HZ Pad)				
Site Position:		Northing:	14,537,256.40 usft	Latitude:	40.028609
From:	Lat/Long	Easting:	1,712,852.16 usft	Longitude:	-104.741241
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well	Beierle 26-15HZ					
Well Position	+N-S	0.00 usft	Northing:	14,537,136.36 usft	Latitude:	40.028279
	+E-W	0.00 usft	Easting:	1,712,897.02 usft	Longitude:	-104.741082
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	5,119.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/17/2020	7.85	66.38	51,811.30817279

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	176.94	

Survey Program	Date	1/4/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
81.00	1,848.00	Survey #1 - Surface MWD+IFR (OH)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	
1,913.00	1,913.00	Survey #2 - Surface Proj to Bit (OH)	APC_BLIND	OWSG BLIND	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL (Beierle 26-15HZ)										
81.00	0.20	358.93	81.00	0.14	0.00	-0.14	0.25	0.25	-1.32	
164.00	0.40	353.99	164.00	0.57	-0.04	-0.58	0.24	0.24	-5.95	
251.00	0.43	7.34	251.00	1.20	-0.03	-1.20	0.12	0.03	15.34	
340.00	0.65	10.21	339.99	2.03	0.11	-2.02	0.25	0.25	3.22	
430.00	2.00	189.57	429.98	0.98	-0.06	-0.98	2.94	1.50	199.29	
520.00	4.13	189.15	519.84	-3.77	-0.84	3.72	2.37	2.37	-0.47	
610.00	4.98	185.15	609.56	-10.86	-1.71	10.75	1.01	0.94	-4.44	
700.00	5.85	180.81	699.16	-19.33	-2.12	19.19	1.07	0.97	-4.82	



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Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
789.00	7.49	171.20	787.55	-29.60	-1.30	29.49	2.22	1.84	-10.80	
879.00	8.97	170.92	876.63	-42.33	0.71	42.31	1.65	1.64	-0.31	
969.00	9.69	175.61	965.44	-56.81	2.39	56.86	1.16	0.80	5.21	
1,059.00	12.31	178.07	1,053.77	-73.95	3.30	74.02	2.96	2.91	2.73	
1,149.00	13.10	177.44	1,141.57	-93.73	4.07	93.82	0.89	0.88	-0.70	
1,239.00	14.71	178.33	1,228.93	-115.34	4.86	115.44	1.80	1.79	0.99	
1,329.00	15.04	177.76	1,315.91	-138.43	5.65	138.54	0.40	0.37	-0.63	
1,419.00	15.68	176.71	1,402.70	-162.24	6.81	162.38	0.78	0.71	-1.17	
1,509.00	17.34	174.98	1,488.99	-187.75	8.68	187.94	1.92	1.84	-1.92	
1,599.00	20.79	175.39	1,574.04	-217.04	11.14	217.32	3.84	3.83	0.46	
1,688.00	21.48	175.88	1,657.05	-249.04	13.58	249.41	0.80	0.78	0.55	
1,778.00	23.10	176.04	1,740.32	-283.09	15.98	283.54	1.80	1.80	0.18	
1,848.00	23.04	178.50	1,804.72	-310.48	17.29	310.96	1.38	-0.09	3.51	
1,913.00	23.04	178.50	1,864.54	-335.91	17.95	336.39	0.00	0.00	0.00	
LP (Beierle 26-15HZ) - PBHL (Beierle 26-15HZ)										

Checked By: _____	Approved By: _____	Date: _____
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