



Occidental Petroleum

Weld County, CO (UTM-NAD83)

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

Beierle 26-16HZ

OH

Design: OH

Standard Survey Report

06 January, 2021





Total Directional Services

Survey Report



Company:	Occidental Petroleum	Local Co-ordinate Reference:	Well Beierle 26-16HZ
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 26-16HZ	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 26-16HZ					
Well Position	+N/-S	0.00 usft	Northing:	14,537,136.41 usft	Latitude:	40.028279
	+E/-W	0.00 usft	Easting:	1,712,912.14 usft	Longitude:	-104.741028
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	51,811.31383140

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	173.26	

Survey Program	Date	1/6/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
81.00	1,846.00	Survey #1 - Surface MWD+IFR (OH)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	
1,911.00	1,911.00	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 26-16HZ)									
81.00	0.55	97.89	81.00	-0.05	0.39	0.10	0.68	0.68	0.00
164.00	0.81	334.79	164.00	0.42	0.53	-0.36	1.45	0.31	-148.31
251.00	0.61	333.79	250.99	1.39	0.06	-1.38	0.23	-0.23	-1.15
340.00	0.81	175.35	339.99	1.19	-0.09	-1.20	1.57	0.22	-178.02
430.00	2.29	179.76	429.95	-1.24	-0.04	1.23	1.65	1.64	4.90
520.00	4.04	166.47	519.81	-6.12	0.71	6.16	2.10	1.94	-14.77
610.00	5.03	172.87	609.53	-13.12	1.94	13.26	1.23	1.10	7.11
700.00	4.91	177.04	699.19	-20.88	2.63	21.04	0.42	-0.13	4.63



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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	5.58	169.41	787.82	-28.94	3.63	29.16	1.09	0.75	-8.57	
879.00	6.25	172.67	877.34	-38.10	5.05	38.43	0.83	0.74	3.62	
969.00	8.46	173.59	966.59	-49.54	6.42	49.95	2.46	2.46	1.02	
1,059.00	12.08	174.78	1,055.14	-65.50	8.02	65.99	4.03	4.02	1.32	
1,149.00	12.56	175.63	1,143.06	-84.63	9.62	85.18	0.57	0.53	0.94	
1,239.00	13.89	174.49	1,230.68	-105.15	11.40	105.76	1.51	1.48	-1.27	
1,329.00	13.86	173.11	1,318.05	-126.60	13.73	127.34	0.37	-0.03	-1.53	
1,419.00	15.11	172.43	1,405.19	-148.93	16.57	149.85	1.40	1.39	-0.76	
1,509.00	15.69	172.64	1,491.96	-172.63	19.67	173.74	0.65	0.64	0.23	
1,599.00	17.90	173.28	1,578.11	-198.44	22.85	199.75	2.46	2.46	0.71	
1,688.00	20.61	172.01	1,662.13	-227.54	26.63	229.09	3.08	3.04	-1.43	
1,778.00	23.41	173.02	1,745.56	-260.98	31.01	262.81	3.14	3.11	1.12	
1,846.00	23.96	173.57	1,807.83	-288.11	34.19	290.13	0.87	0.81	0.81	
1,911.00	23.96	173.57	1,867.23	-314.34	37.15	316.53	0.00	0.00	0.00	
PBHL (Beierle 26-16HZ) - LP (Beierle 26-16HZ)										

Checked By: _____	Approved By: _____	Date: _____
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