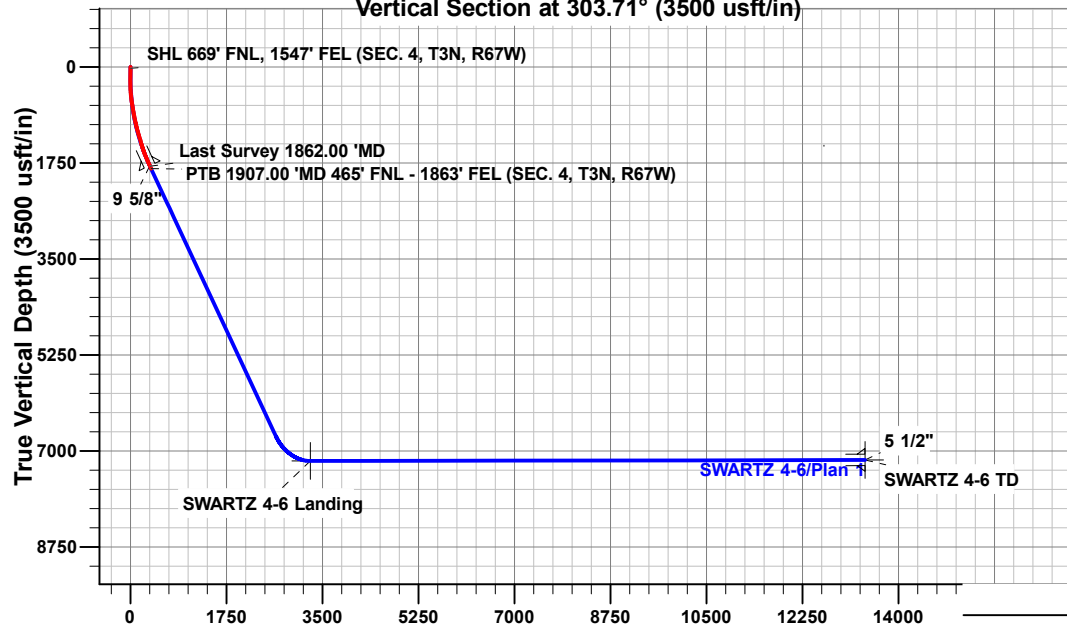


Vertical Section at 303.71° (3500 usft/in)



FORMATION TOP DETAILS

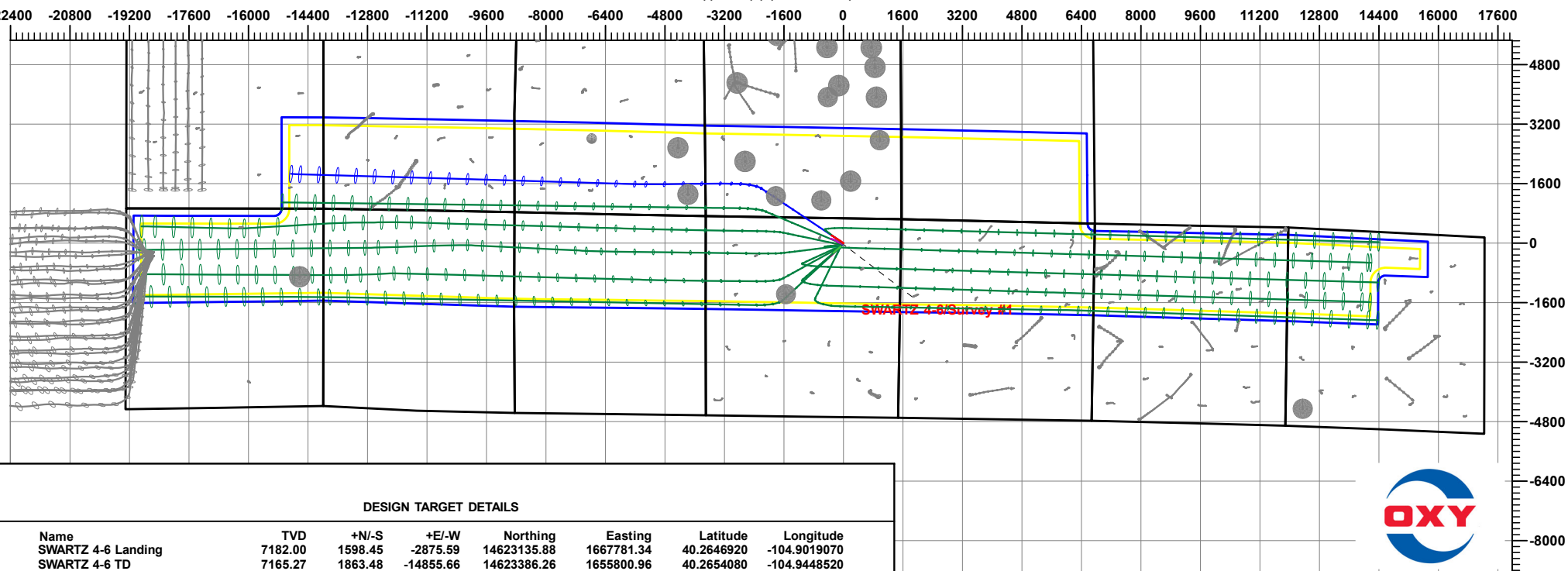
TVDPath	MDPath	Formation
705.00	706.48	Fox Hills
3596.00	3832.76	Parkman
4078.00	4364.63	Sussex
6839.00	7415.64	Sharon Springs
6869.00	7452.06	Niobrara
7021.00	7662.89	Nio B
7053.00	7716.91	Nio C
7155.00	7960.07	Fort Hayes
7176.00	8066.19	Codell

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
25.00	0.13	119.80	25.00	-0.01	0.02	-0.03	0.09	SHL 669' FNL, 1547' FEL (SEC. 4, T3N, R67W)
1862.00	24.66	302.02	1809.83	199.03	-297.37	357.83	361.91	Last Survey 1862.00 'MD
1907.00	24.66	302.02	1850.72	208.99	-313.29	376.60	380.68	PTB 1907.00 'MD 465' FNL - 1863' FEL (SEC. 4, T3N, R67W)

West(-)/East(+) (4000 usft/in)

South(-)/North(+) (4000 usft/in)



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SWARTZ 4-6 Landing	7182.00	1598.45	-2875.59	14623135.88	1667781.34	40.2646920	-104.9019070
SWARTZ 4-6 TD	7165.27	1863.48	-14855.66	14623386.26	1655800.96	40.2654080	-104.9448520



Occidental Petroleum

Weld County, CO (UTM-NAD83)

3N-67W-04 (Swartz Pad)

SWARTZ 4-6

OH

OH



Standard Survey Report

11 January, 2024

Total Report Version 1.60

COMPASS 5000.16 Build 97

Survey Report

Company:	Occidental Petroleum	Local Co-ordinate Reference:	Well SWARTZ 4-6
Project:	Weld County, CO (UTM-NAD83)	TVD Reference:	4825' GL + 15' KB @ 4840.00usft
Site:	3N-67W-04 (Swartz Pad)	MD Reference:	4825' GL + 15' KB @ 4840.00usft
Well:	SWARTZ 4-6	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site	3N-67W-04 (Swartz Pad)		
Site Position:		Northing:	14,621,540.94 usft
From:	Lat/Long	Easting:	1,670,658.88 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	40.2603030
		Longitude:	-104.8915990

Well	SWARTZ 4-6		
Well Position	+N/-S	0.00 usft	Northing: 14,621,540.94 usft
	+E/-W	0.00 usft	Easting: 1,670,658.88 usft
Position Uncertainty	3.28 usft	Wellhead Elevation:	usft
Grid Convergence:	0.07 °	Ground Level:	4,825.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	HDGM2023	9/25/2023	(°) 7.90
			Dip Angle (°) 66.40
			Field Strength (nT) 51,647.70000000

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	Tie On Depth:
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°) 303.71

Survey Program	Date	1/11/2024	
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
80.00	1,907.00	Survey #1 (OH)	APC_ISCWSA REV 2 MWD+ Fixed:v2:crustal field declination

Survey													
Measured	Vertical	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical	Dogleg	Build	Turn		
Depth	INC	AZI	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(°)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	14,621,540.94	1,670,658.89	40.2603030	-104.8915990	0.00	0.00	0.00	0.00
80.00	0.42	119.80	80.00	-0.15	0.25	14,621,540.80	1,670,659.14	40.2603026	-104.8915981	-0.29	0.53	0.53	0.00
172.00	0.61	49.45	172.00	0.01	0.92	14,621,540.95	1,670,659.80	40.2603030	-104.8915957	-0.76	0.67	0.21	-76.47
264.00	0.55	64.28	263.99	0.52	1.69	14,621,541.46	1,670,660.57	40.2603044	-104.8915929	-1.12	0.18	-0.07	16.12
354.00	1.71	296.02	353.98	1.29	0.87	14,621,542.23	1,670,659.76	40.2603066	-104.8915959	-0.01	2.33	1.29	-142.51
444.00	3.80	300.30	443.87	3.39	-2.91	14,621,544.32	1,670,655.97	40.2603123	-104.8916094	4.30	2.33	2.32	4.76

Survey Report

Company:	Occidental Petroleum	Local Co-ordinate Reference:	Well SWARTZ 4-6
Project:	Weld County, CO (UTM-NAD83)	TVD Reference:	4825' GL + 15' KB @ 4840.00usft
Site:	3N-67W-04 (Swartz Pad)	MD Reference:	4825' GL + 15' KB @ 4840.00usft
Well:	SWARTZ 4-6	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
533.00	5.33	307.18	532.59	7.37	-8.75	14,621,548.30	1,670,650.13	40.2603233	-104.8916303	11.37	1.82	1.72	7.73
623.00	8.52	302.34	621.92	13.47	-17.72	14,621,554.39	1,670,641.15	40.2603400	-104.8916625	22.21	3.60	3.54	-5.38
707.12	9.51	302.48	705.00	20.53	-28.85	14,621,561.44	1,670,630.02	40.2603594	-104.8917024	35.39	1.18	1.18	0.17
Fox Hills													
712.00	9.57	302.49	709.81	20.97	-29.53	14,621,561.87	1,670,629.33	40.2603606	-104.8917048	36.20	1.18	1.18	0.15
802.00	9.67	306.14	798.55	29.44	-41.94	14,621,570.33	1,670,616.91	40.2603839	-104.8917493	51.23	0.69	0.11	4.06
891.00	10.49	308.31	886.17	38.87	-54.34	14,621,579.75	1,670,604.50	40.2604098	-104.8917937	66.77	1.02	0.92	2.44
981.00	11.72	304.35	974.49	49.11	-68.31	14,621,589.97	1,670,590.51	40.2604379	-104.8918438	84.08	1.61	1.37	-4.40
1,070.00	13.03	305.02	1,061.42	59.97	-83.99	14,621,600.81	1,670,574.82	40.2604677	-104.8919000	103.15	1.48	1.47	0.75
1,159.00	15.40	302.14	1,147.69	72.02	-102.22	14,621,612.83	1,670,556.58	40.2605008	-104.8919654	125.00	2.78	2.66	-3.24
1,249.00	16.73	304.79	1,234.17	85.77	-122.98	14,621,626.56	1,670,535.80	40.2605385	-104.8920398	149.90	1.69	1.48	2.94
1,338.00	16.42	301.30	1,319.48	99.61	-144.25	14,621,640.37	1,670,514.52	40.2605766	-104.8921160	175.27	1.17	-0.35	-3.92
1,428.00	15.98	301.15	1,405.90	112.63	-165.72	14,621,653.36	1,670,493.03	40.2606123	-104.8921930	200.36	0.49	-0.49	-0.17
1,518.00	18.75	300.55	1,491.79	126.39	-188.78	14,621,667.10	1,670,469.95	40.2606501	-104.8922756	227.18	3.08	3.08	-0.67
1,607.00	21.02	303.87	1,575.48	142.56	-214.36	14,621,683.24	1,670,444.35	40.2606945	-104.8923673	257.43	2.85	2.55	3.73
1,697.00	22.69	304.00	1,659.01	161.26	-242.15	14,621,701.91	1,670,416.54	40.2607459	-104.8924670	290.93	1.86	1.86	0.14
1,786.00	24.26	305.66	1,740.64	181.52	-271.24	14,621,722.13	1,670,387.42	40.2608015	-104.8925712	326.38	1.91	1.76	1.87
1,862.00	24.66	302.02	1,809.83	199.03	-297.37	14,621,739.61	1,670,361.27	40.2608496	-104.8926649	357.83	2.05	0.53	-4.79
Last Survey 1862.00 'MD													
1,907.00	24.66	302.02	1,850.72	208.99	-313.29	14,621,749.54	1,670,345.34	40.2608769	-104.8927219	376.60	0.00	0.00	0.00
PTB 1907.00 'MD 465' FNL - 1863' FEL (SEC. 4, T3N, R67W)													

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
707.12	705.00	Fox Hills			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,862.00	1,809.83	199.03	-297.37	Last Survey 1862.00 'MD
1,907.00	1,850.72	208.99	-313.29	PTB 1907.00 'MD 465' FNL - 1863' FEL (SEC. 4, T3N, R67W)

Checked By: _____ Approved By: _____ Date: _____