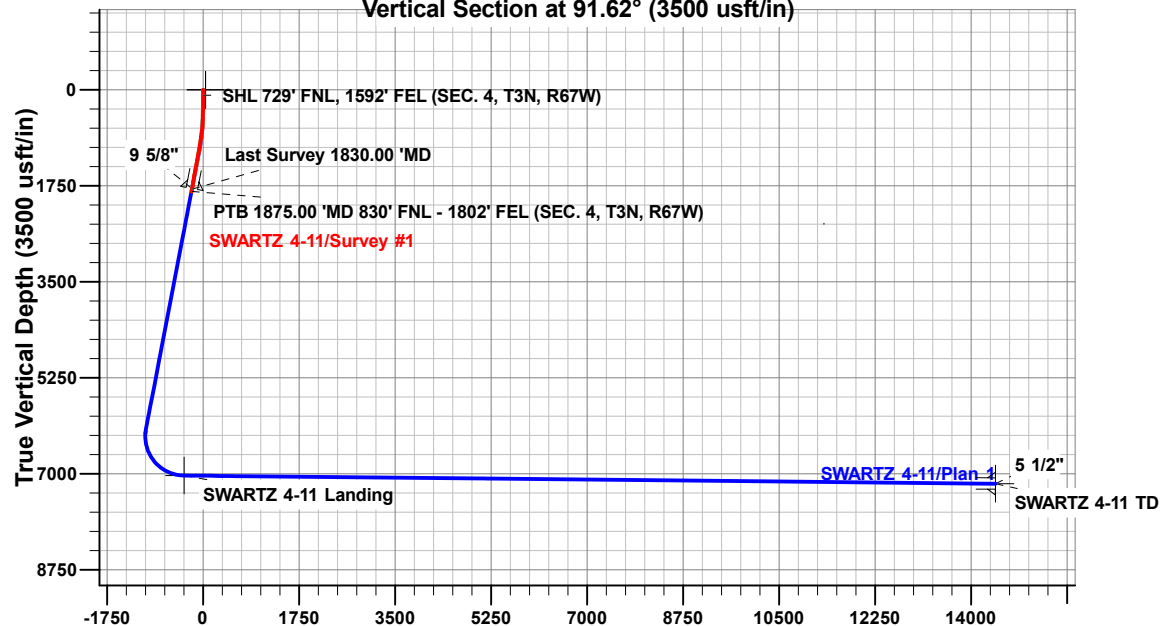


Vertical Section at 91.62° (3500 usft/in)



FORMATION TOP DETAILS

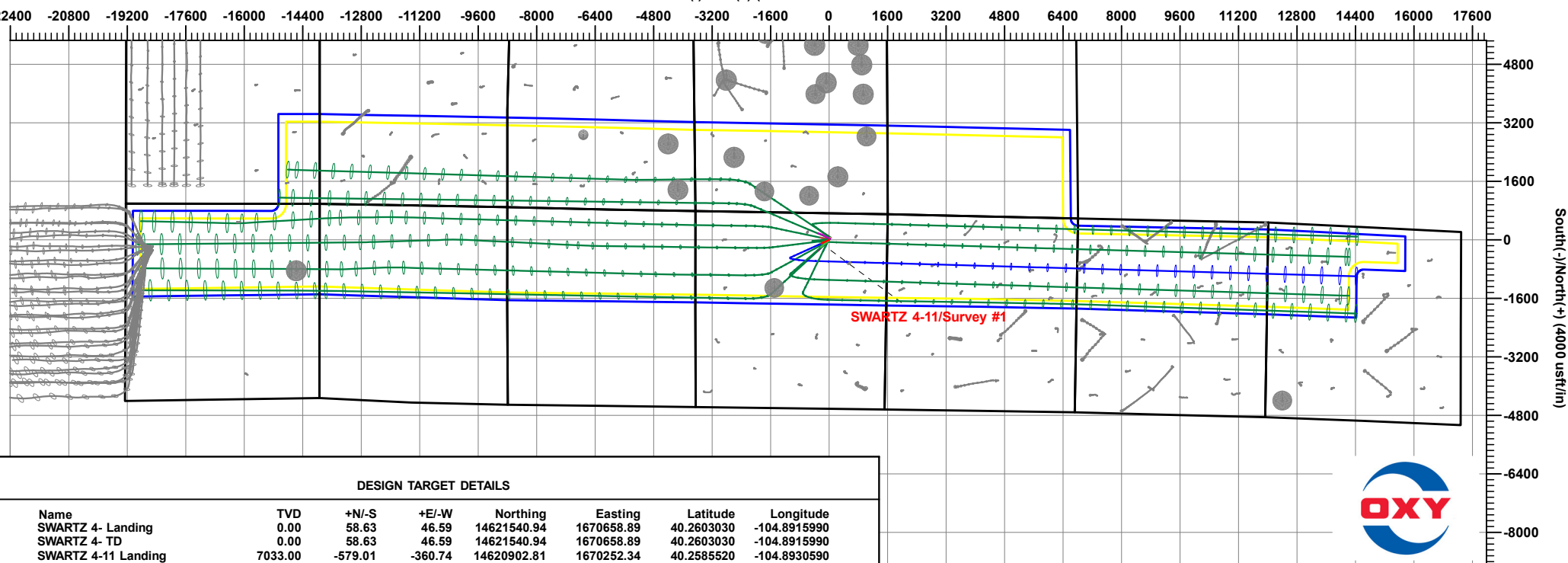
TVDPATH	MDPATH	FORMATION
705.00	705.51	Fox Hills
3596.00	3657.00	Parkman
4078.00	4149.85	Sussex
6839.00	7024.50	Sharon Springs
6869.00	7070.01	Niobrara
7021.00	7433.86	Nio B
7053.00	9570.97	Nio C
7155.00	19834.64	Fort Hayes
7176.00	21947.75	Codell

ANNOTATIONS

Project: Weld County, CO (UTM-NAD83)
 Site: 3N-67W-04 (Swartz Pad)
 Well: SWARTZ 4-11
 Wellbore: OH
 Design: OH

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
100.00	0.15	201.65	100.00	-0.12	-0.02	-0.01	0.15	SHL 729' FNL, 1592' FEL (SEC. 4, T3N, R67W)
1830.00	12.58	238.14	1809.84	-92.88	-203.35	-200.64	224.86	Last Survey 1830.00 'MD
1875.00	12.58	238.14	1853.76	-98.05	-211.67	-208.82	234.66	PTB 1875.00 'MD 830' FNL - 1802' FEL (SEC. 4, T3N, R67W)

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



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SWARTZ 4- Landing	0.00	58.63	46.59	14621540.94	1670658.89	40.2603030	-104.8915990
SWARTZ 4- TD	0.00	58.63	46.59	14621540.94	1670658.89	40.2603030	-104.8915990
SWARTZ 4-11 Landing	7033.00	-579.01	-360.74	14620902.81	1670252.34	40.2585520	-104.8930590
SWARTZ 4-11 TD	7180.00	-995.77	14424.43	14620504.09	1685038.00	40.2573960	-104.8400650



Occidental Petroleum

Weld County, CO (UTM-NAD83)

3N-67W-04 (Swartz Pad)

SWARTZ 4-11

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 4-11
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 4-11	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		Latitude:		40.2603030	
From:		Lat/Long		Easting:		1,670,658.88 usft		Longitude:		-104.8915990	
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "					

Well SWARTZ 4-11						
Well Position	+N/-S	0.00 usft	Northing:	14,621,482.25 usft	Latitude:	40.2601420
	+E/-W	0.00 usft	Easting:	1,670,612.36 usft	Longitude:	-104.8917660
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,825.00 usft
Grid Convergence:		0.07 °				

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

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				91.62	

Survey Program		Date		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
80.00	1,875.00	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	Longituge	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	14,621,482.25	1,670,612.37	40.2601420	-104.8917660	0.00	0.00	0.00	0.00
80.00	0.11	183.65	80.00	-0.08	0.00	14,621,482.18	1,670,612.36	40.2601418	-104.8917660	0.00	0.14	0.14	0.00
100.00	0.15	201.65	100.00	-0.12	-0.02	14,621,482.13	1,670,612.35	40.2601417	-104.8917660	-0.01	0.27	0.18	89.99
SHL 729' FNL, 1592' FEL (SEC. 4, T3N, R67W)													
172.00	0.32	224.13	172.00	-0.35	-0.19	14,621,481.91	1,670,612.18	40.2601411	-104.8917667	-0.18	0.27	0.24	31.22
264.00	0.36	197.44	264.00	-0.81	-0.45	14,621,481.44	1,670,611.91	40.2601398	-104.8917676	-0.43	0.18	0.04	-29.01

Survey Report

Company:	Occidental Petroleum	Local Co-ordinate Reference:	Well SWARTZ 4-11
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 4-11	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)
354.00	0.77	218.08	353.99	-1.56	-0.91	14,621,480.70	1,670,611.46	40.2601378	-104.8917692	-0.87	0.50	0.46	22.93
444.00	1.12	265.07	443.98	-2.11	-2.16	14,621,480.15	1,670,610.21	40.2601362	-104.8917737	-2.10	0.91	0.39	52.21
533.00	1.48	257.27	532.96	-2.43	-4.15	14,621,479.81	1,670,608.22	40.2601353	-104.8917808	-4.08	0.45	0.40	-8.76
623.00	3.54	248.50	622.87	-3.71	-7.87	14,621,478.54	1,670,604.50	40.2601318	-104.8917942	-7.76	2.32	2.29	-9.74
705.46	6.59	250.41	705.00	-6.23	-14.70	14,621,476.01	1,670,597.68	40.2601249	-104.8918187	-14.51	3.70	3.70	2.32
Fox Hills													
712.00	6.83	250.49	711.49	-6.48	-15.42	14,621,475.75	1,670,596.96	40.2601242	-104.8918212	-15.23	3.70	3.70	1.20
802.00	8.53	250.78	800.68	-10.47	-26.76	14,621,471.75	1,670,585.62	40.2601133	-104.8918619	-26.46	1.89	1.89	0.32
891.00	9.89	241.86	888.54	-16.25	-39.74	14,621,465.96	1,670,572.65	40.2600974	-104.8919084	-39.26	2.21	1.53	-10.02
981.00	10.82	239.99	977.07	-24.12	-53.87	14,621,458.07	1,670,558.53	40.2600758	-104.8919591	-53.16	1.10	1.03	-2.08
1,070.00	10.54	242.63	1,064.53	-32.04	-68.33	14,621,450.13	1,670,544.07	40.2600540	-104.8920109	-67.40	0.63	-0.31	2.97
1,159.00	11.70	244.74	1,151.86	-39.63	-83.72	14,621,442.52	1,670,528.69	40.2600332	-104.8920661	-82.57	1.38	1.30	2.37
1,249.00	10.78	248.66	1,240.13	-46.59	-99.81	14,621,435.54	1,670,512.61	40.2600141	-104.8921238	-98.46	1.33	-1.02	4.36
1,338.00	11.69	247.58	1,327.42	-53.06	-115.90	14,621,429.06	1,670,496.53	40.2599963	-104.8921814	-114.36	1.05	1.02	-1.21
1,428.00	11.45	249.82	1,415.60	-59.62	-132.72	14,621,422.48	1,670,479.72	40.2599783	-104.8922417	-130.98	0.57	-0.27	2.49
1,518.00	11.42	253.42	1,503.81	-65.24	-149.64	14,621,416.83	1,670,462.81	40.2599629	-104.8923023	-147.74	0.79	-0.03	4.00
1,607.00	10.63	244.78	1,591.17	-71.25	-165.51	14,621,410.80	1,670,446.94	40.2599464	-104.8923592	-163.43	2.06	-0.89	-9.71
1,697.00	10.33	240.08	1,679.67	-78.81	-180.02	14,621,403.22	1,670,432.45	40.2599256	-104.8924112	-177.72	1.01	-0.33	-5.22
1,786.00	12.57	238.54	1,766.90	-87.85	-195.20	14,621,394.17	1,670,417.28	40.2599008	-104.8924656	-192.63	2.54	2.52	-1.73
1,830.00	12.58	238.14	1,809.84	-92.88	-203.35	14,621,389.13	1,670,409.13	40.2598870	-104.8924949	-200.64	0.20	0.02	-0.91
Last Survey 1830.00 'MD													
1,875.00	12.58	238.14	1,853.76	-98.05	-211.67	14,621,383.94	1,670,400.81	40.2598728	-104.8925247	-208.82	0.00	0.00	0.00
PTB 1875.00 'MD 830' FNL - 1802' FEL (SEC. 4, T3N, R67W)													

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
705.46	705.00	Fox Hills			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
100.00	100.00	-0.12	-0.02	SHL 729' FNL, 1592' FEL (SEC. 4, T3N, R67W)
1,830.00	1,809.84	-92.88	-203.35	Last Survey 1830.00 'MD
1,875.00	1,853.76	-98.05	-211.67	PTB 1875.00 'MD 830' FNL - 1802' FEL (SEC. 4, T3N, R67W)

Checked By: _____ Approved By: _____ Date: _____