

Actual Wellpath Report

No. 3H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Cypress) Sec 33, T23S, R29E	Wellbore	No. 3H AWB
Facility	Cypress 33 No. 3H		

REPORT SETUP INFORMATION

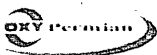
Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999923	Report Generated	5/6/2009 at 3:01:59 PM
Convergence at slot	0.19° East	Database/Source file	WA_Midland/No. 3H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	608653.20	457919.60	32°15'30.416"N	103°58'54.641"W
Facility Reference Pt			608653.20	457919.60	32°15'30.416"N	103°58'54.641"W
Field Reference Pt			608653.20	457919.60	32°15'30.416"N	103°58'54.641"W

WELLPATH DATUM

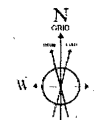
Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (RT) to Mean Sea Level	3036.20ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	273.98°



OXY Permian

Location: Eddy County, NM
Field: (Cypress) Sec 33, T23S, R29E
Facility: Cypress 33 No. 3H

Slot: No. 3H SHL
Well: No. 3H
Wellbore: No. 3H AWB

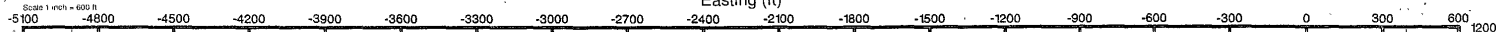


BDGM (1945 to 2010) Dat: 60.21° Field: 4881.9 at
Magnetic North is 13 degrees East of True North (at 1/15/2009)
Grid North is 0.19 degrees East of True North
To correct azimuth from True to Grid add 0.19 degrees
To correct azimuth from Magnetic to Grid add 7.94 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.94 = 97.94



Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
TIE ON	8057.00	84.000	275.100	7759.65	123.56	-594.89	602.02
PROJ TO BIT	8113.00	86.100	275.000	7764.48	128.47	-650.46	657.80
END OF CURVE	8539.73	90.000	271.853	7779.00	153.94	-1076.04	117.17
END OF BUILD	8573.43	90.603	272.665	7778.82	155.27	-1109.72	3.00
No. 3H PBHL	11977.74	90.603	272.665	7743.00	313.52	-4510.16	0.00

Easting (ft)



No. 3H PBHL
1980' FSL
400' FWL

No. 3H BHL
1973' FSL
393' FWL

EST. CROSSING POINT--7332.27ft TVD, -1.27ft N, 95.67ft W

No. 3H SHL
1650' FSL
400' FEL
No. 3H AWB

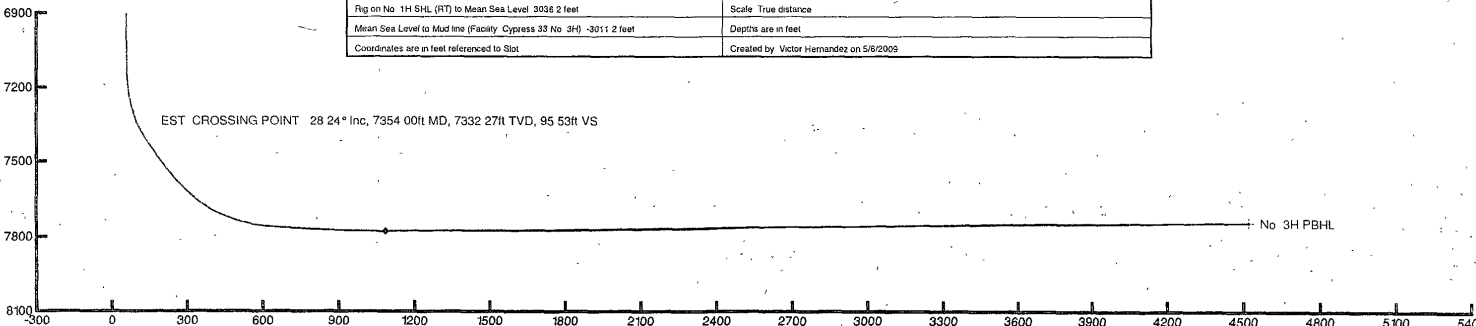
Northing (ft)



Plot reference wellpath is Plan #10	
True vertical depths are referenced to Rig on No. 1H SHL (RT)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (S001), US feet
Measured depths are referenced to Rig on No. 1H SHL (RT)	North Reference: Grid north
Rig on No. 1H SHL (RT) to Mean Sea Level: 3036.2 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Cypress 33 No. 3H) -3011.2 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: Victor Hernandez on 5/6/2009

EST. CROSSING POINT: 28.24° Inc, 7354.00ft MD, 7332.27ft TVD, 95.53ft VS

True Vertical Depth (ft)
Scale: 1 inch = 889.89 ft



Vertical Section (ft)

Azimuth 273.98° with reference 0.00 N, 0.00 E

Scale: 1 inch = 600.002 ft



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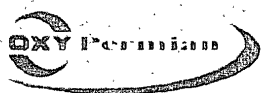
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Area	Eddy County, NM	Well	No. 3H
Field	(Cypress) Sec 33, T23S, R29E	Wellbore	No. 3H AWB
Facility	Cypress 33 No. 3H		

WELLPATH DATA (162 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	144.100	0.00	0.00	0.00	0.00	608653.20	457919.60	32°15'30.416"N	103°58'54.641"W	0.00	
100.00	0.560	144.100	100.00	-0.31	-0.40	0.29	608653.49	457919.20	32°15'30.412"N	103°58'54.637"W	0.56	
181.90	0.430	143.630	181.90	-0.77	-0.97	0.70	608653.90	457918.63	32°15'30.407"N	103°58'54.632"W	0.16	
274.00	0.350	144.950	273.99	-1.17	-1.48	1.07	608654.27	457918.12	32°15'30.401"N	103°58'54.628"W	0.09	
366.00	0.300	136.810	365.99	-1.52	-1.88	1.40	608654.60	457917.72	32°15'30.397"N	103°58'54.624"W	0.07	
458.00	0.260	128.450	457.99	-1.87	-2.19	1.72	608654.92	457917.41	32°15'30.394"N	103°58'54.621"W	0.06	
550.10	0.260	149.260	550.09	-2.16	-2.50	1.99	608655.19	457917.10	32°15'30.391"N	103°58'54.617"W	0.10	
642.10	0.290	169.580	642.09	-2.34	-2.91	2.14	608655.34	457916.70	32°15'30.387"N	103°58'54.616"W	0.11	
734.10	0.240	162.240	734.09	-2.47	-3.32	2.24	608655.44	457916.28	32°15'30.383"N	103°58'54.615"W	0.07	
826.10	0.320	182.490	826.09	-2.55	-3.76	2.29	608655.49	457915.84	32°15'30.379"N	103°58'54.614"W	0.14	
913.20	0.370	173.240	913.19	-2.61	-4.28	2.31	608655.51	457915.32	32°15'30.374"N	103°58'54.614"W	0.09	
1010.70	0.520	194.070	1010.68	-2.59	-5.02	2.24	608655.44	457914.58	32°15'30.366"N	103°58'54.615"W	0.22	
1104.80	0.520	188.340	1104.78	-2.48	-5.86	2.08	608655.28	457913.74	32°15'30.358"N	103°58'54.617"W	0.06	
1199.00	0.620	200.990	1198.97	-2.30	-6.76	1.83	608655.03	457912.84	32°15'30.349"N	103°58'54.619"W	0.17	
1293.10	0.800	205.410	1293.07	-1.91	-7.83	1.37	608654.57	457911.77	32°15'30.339"N	103°58'54.625"W	0.20	
1387.30	0.810	208.030	1387.26	-1.40	-9.01	0.77	608653.97	457910.59	32°15'30.327"N	103°58'54.632"W	0.04	
1481.40	0.940	203.900	1481.35	-0.86	-10.30	0.15	608653.35	457909.30	32°15'30.314"N	103°58'54.639"W	0.15	
1575.60	0.790	221.030	1575.54	-0.21	-11.50	-0.59	608652.61	457908.10	32°15'30.302"N	103°58'54.648"W	0.32	
1669.70	0.870	223.340	1669.63	0.64	-12.51	-1.51	608651.69	457907.10	32°15'30.292"N	103°58'54.659"W	0.09	
1763.80	0.840	226.630	1763.72	-1.56	-13.50	-2.50	608650.70	457906.10	32°15'30.283"N	103°58'54.670"W	0.06	
1858.00	0.930	225.740	1857.90	2.53	-14.51	-3.55	608649.65	457905.09	32°15'30.273"N	103°58'54.682"W	0.10	
1952.10	0.890	236.660	1951.99	3.62	-15.44	-4.70	608648.50	457904.16	32°15'30.263"N	103°58'54.696"W	0.19	
2046.30	0.930	243.390	2046.18	4.86	-16.19	-6.00	608647.20	457903.42	32°15'30.256"N	103°58'54.711"W	0.12	
2140.40	1.040	247.760	2140.27	6.29	-16.85	-7.47	608645.73	457902.75	32°15'30.250"N	103°58'54.728"W	0.14	
2234.60	1.110	246.830	2234.45	7.86	-17.53	-9.10	608644.10	457902.07	32°15'30.243"N	103°58'54.747"W	0.08	
2328.70	1.170	243.450	2328.53	9.50	-18.32	-10.80	608642.40	457901.28	32°15'30.235"N	103°58'54.767"W	0.10	
2422.80	1.010	245.810	2422.61	11.06	-19.09	-12.42	608640.78	457900.51	32°15'30.228"N	103°58'54.786"W	0.18	
2517.00	1.140	218.330	2516.80	12.32	-20.17	-13.75	608639.45	457899.44	32°15'30.217"N	103°58'54.802"W	0.56	
2611.10	1.310	209.710	2610.88	13.32	-21.83	-14.87	608638.33	457897.77	32°15'30.201"N	103°58'54.815"W	0.27	
2705.30	1.540	209.270	2705.05	14.33	-23.87	-16.02	608637.18	457895.73	32°15'30.180"N	103°58'54.828"W	0.24	



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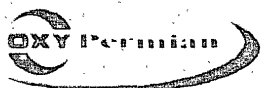
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Field	(Cypress) Sec 33, T23S, R29E	Wellbore	No. 3H AWP
Facility	Cypress 33 No. 3H		

WELLPATH DATA (162 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2799.40	1.740	197.580	2799.11	15.20	-26.34	-17.07	608636.13	457893.26	32°15'30.156"N	103°58'54.840"W	0.41	
2893.50	1.610	194.360	2893.17	15.78	-28.98	-17.83	608635.37	457890.62	32°15'30.130"N	103°58'54.849"W	0.17	
2987.70	1.600	194.350	2987.33	16.25	-31.54	-18.48	608634.72	457888.06	32°15'30.105"N	103°58'54.857"W	0.01	
3081.80	1.440	188.920	3081.40	16.59	-33.98	-18.99	608634.21	457885.62	32°15'30.080"N	103°58'54.863"W	0.23	
3176.00	1.470	188.260	3175.57	16.78	-36.34	-19.35	608633.85	457883.26	32°15'30.057"N	103°58'54.867"W	0.04	
3270.10	1.580	193.080	3269.64	17.08	-38.80	-19.82	608633.38	457880.80	32°15'30.033"N	103°58'54.873"W	0.18	
3364.30	1.500	190.970	3363.80	17.43	-41.28	-20.35	608632.86	457878.33	32°15'30.008"N	103°58'54.879"W	0.10	
3458.40	1.600	192.800	3457.87	17.79	-43.77	-20.87	608632.33	457875.84	32°15'29.984"N	103°58'54.885"W	0.12	
3552.60	1.560	193.460	3552.03	18.20	-46.30	-21.46	608631.74	457873.31	32°15'29.959"N	103°58'54.892"W	0.05	
3646.70	1.560	208.570	3646.10	18.94	-48.67	-22.37	608630.83	457870.94	32°15'29.935"N	103°58'54.903"W	0.44	
3740.80	1.630	192.310	3740.16	19.67	-51.10	-23.27	608629.93	457868.50	32°15'29.911"N	103°58'54.914"W	0.48	
3835.00	1.730	195.570	3834.32	20.15	-53.78	-23.94	608629.27	457865.83	32°15'29.885"N	103°58'54.921"W	0.15	
3929.10	1.680	200.640	3928.38	20.83	-56.44	-24.80	608628.40	457863.17	32°15'29.858"N	103°58'54.932"W	0.17	
4023.30	1.640	197.500	4022.54	21.54	-59.02	-25.70	608627.51	457860.59	32°15'29.833"N	103°58'54.942"W	0.11	
4117.40	1.550	198.570	4116.60	22.18	-61.51	-26.51	608626.70	457858.10	32°15'29.808"N	103°58'54.952"W	0.10	
4211.60	1.620	199.270	4210.77	22.85	-63.97	-27.35	608625.85	457855.63	32°15'29.784"N	103°58'54.962"W	0.08	
4305.70	1.690	199.500	4304.83	23.57	-66.53	-28.25	608624.95	457853.07	32°15'29.759"N	103°58'54.972"W	0.07	
4399.90	1.660	201.020	4398.99	24.34	-69.12	-29.21	608624.00	457850.49	32°15'29.733"N	103°58'54.983"W	0.06	
4494.00	1.640	201.180	4493.05	25.14	-71.65	-30.18	608623.02	457847.96	32°15'29.708"N	103°58'54.995"W	0.02	
4588.10	1.640	202.490	4587.11	25.97	-74.15	-31.18	608622.02	457845.46	32°15'29.683"N	103°58'55.007"W	0.04	
4682.30	1.690	202.590	4681.27	26.84	-76.67	-32.23	608620.97	457842.93	32°15'29.658"N	103°58'55.019"W	0.05	
4776.40	1.720	202.560	4775.33	27.73	-79.26	-33.31	608619.89	457840.35	32°15'29.633"N	103°58'55.031"W	0.03	
4870.60	1.820	202.490	4869.48	28.66	-81.95	-34.42	608618.78	457837.66	32°15'29.606"N	103°58'55.045"W	0.11	
4964.70	1.920	202.830	4963.53	29.64	-84.78	-35.61	608617.60	457834.83	32°15'29.578"N	103°58'55.058"W	0.11	
5058.90	2.010	203.020	5057.68	30.69	-87.75	-36.86	608616.34	457831.85	32°15'29.549"N	103°58'55.073"W	0.10	
5153.00	2.070	204.150	5151.72	31.81	-90.82	-38.20	608615.00	457828.78	32°15'29.519"N	103°58'55.089"W	0.08	
5247.10	1.990	203.660	5245.76	32.95	-93.87	-39.56	608613.65	457825.74	32°15'29.488"N	103°58'55.105"W	0.09	
5341.30	2.070	211.310	5339.90	34.28	-96.82	-41.10	608612.11	457822.79	32°15'29.459"N	103°58'55.123"W	0.30	
5435.40	2.190	219.830	5433.93	36.12	-99.66	-43.13	608610.07	457819.95	32°15'29.431"N	103°58'55.147"W	0.36	
5529.60	1.890	206.100	5528.08	37.76	-102.43	-44.97	608608.24	457817.18	32°15'29.404"N	103°58'55.168"W	0.61	



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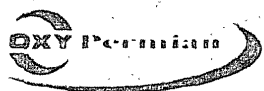
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5623.70	1.520	208.960	5622.13	38.87	-104.92	-46.25	608606.95	457814.69	32°15'29.379"N	103°58'55.183"W	0.40	
5717.90	1.560	208.990	5716.30	39.94	-107.13	-47.48	608605.72	457812.48	32°15'29.358"N	103°58'55.198"W	0.04	
5812.00	1.550	211.410	5810.37	41.06	-109.34	-48.76	608604.44	457810.27	32°15'29.336"N	103°58'55.213"W	0.07	
5906.10	1.610	211.950	5904.43	42.27	-111.55	-50.13	608603.08	457808.06	32°15'29.314"N	103°58'55.229"W	0.07	
6000.30	1.660	213.300	5998.59	43.56	-113.81	-51.58	608601.63	457805.80	32°15'29.292"N	103°58'55.246"W	0.07	
6094.40	1.730	214.240	6092.65	44.94	-116.12	-53.12	608600.08	457803.49	32°15'29.269"N	103°58'55.264"W	0.08	
6188.60	1.760	212.210	6186.81	46.34	-118.52	-54.70	608598.51	457801.09	32°15'29.245"N	103°58'55.282"W	0.07	
6282.70	1.660	208.340	6280.86	47.59	-120.95	-56.11	608597.09	457798.66	32°15'29.221"N	103°58'55.299"W	0.16	
6376.90	1.740	207.560	6375.02	48.73	-123.41	-57.42	608595.78	457796.20	32°15'29.197"N	103°58'55.314"W	0.09	
6471.00	1.720	206.250	6469.08	49.83	-125.95	-58.71	608594.50	457793.66	32°15'29.172"N	103°58'55.329"W	0.05	
6492.00	1.700	197.700	6490.07	50.03	-126.53	-58.94	608594.26	457793.08	32°15'29.166"N	103°58'55.332"W	1.22	
6525.00	1.700	202.600	6523.06	50.30	-127.45	-59.28	608593.93	457792.17	32°15'29.157"N	103°58'55.336"W	0.44	
6590.00	2.000	234.200	6588.02	51.48	-129.00	-60.57	608592.64	457790.61	32°15'29.142"N	103°58'55.351"W	1.61	
6617.00	3.300	259.900	6615.00	52.59	-129.41	-61.72	608591.49	457790.20	32°15'29.138"N	103°58'55.364"W	6.41	
6652.00	3.100	284.300	6649.94	54.50	-129.35	-63.63	608589.58	457790.26	32°15'29.138"N	103°58'55.386"W	3.90	
6683.00	3.000	316.100	6680.90	55.93	-128.56	-65.00	608588.21	457791.05	32°15'29.146"N	103°58'55.402"W	5.40	
6715.00	3.300	338.000	6712.85	56.95	-127.10	-65.93	608587.28	457792.51	32°15'29.160"N	103°58'55.413"W	3.85	
6747.00	3.000	356.200	6744.81	57.47	-125.41	-66.33	608586.88	457794.20	32°15'29.177"N	103°58'55.418"W	3.25	
6778.00	4.600	8.300	6775.74	57.49	-123.38	-66.20	608587.00	457796.23	32°15'29.197"N	103°58'55.416"W	5.75	
6809.00	5.300	8.600	6806.62	57.28	-120.73	-65.81	608587.40	457798.88	32°15'29.224"N	103°58'55.411"W	2.26	
6841.00	6.300	5.500	6838.46	57.11	-117.52	-65.42	608587.79	457802.09	32°15'29.255"N	103°58'55.407"W	3.27	
6872.00	6.800	4.600	6869.25	57.05	-114.00	-65.11	608588.10	457805.61	32°15'29.290"N	103°58'55.403"W	1.65	
6903.00	7.000	3.500	6900.03	57.04	-110.28	-64.85	608588.36	457809.33	32°15'29.327"N	103°58'55.400"W	0.77	
6935.00	8.500	3.300	6931.74	57.09	-105.98	-64.59	608588.62	457813.63	32°15'29.370"N	103°58'55.397"W	4.69	
6966.00	10.100	0.400	6962.33	57.28	-100.97	-64.44	608588.77	457818.64	32°15'29.419"N	103°58'55.395"W	5.38	
6996.00	10.700	0.100	6991.84	57.63	-95.55	-64.42	608588.79	457824.05	32°15'29.473"N	103°58'55.394"W	2.01	
7029.00	10.900	1.100	7024.25	58.00	-89.37	-64.35	608588.85	457830.24	32°15'29.534"N	103°58'55.393"W	0.83	
7078.00	12.100	358.100	7072.27	58.76	-79.61	-64.43	608588.77	457840.00	32°15'29.630"N	103°58'55.394"W	2.74	
7114.00	12.700	357.400	7107.43	59.60	-71.88	-64.74	608588.47	457847.72	32°15'29.707"N	103°58'55.397"W	1.72	
7145.00	13.600	356.400	7137.61	60.47	-64.84	-65.12	608588.09	457854.76	32°15'29.777"N	103°58'55.401"W	2.99	



Actual Wellpath Report

No. 3H AWP

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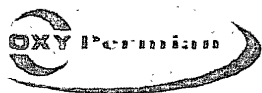
INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Cypress) Sec 33, T23S, R29E	Wellbore	No. 3H AWP
Facility	Cypress 33 No. 3H		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7175.00	15.400	353.500	7166.66	61.66	-57.36	-65.79	608587.41	457862.24	32°15'29.851"N	103°58'55.409"W	6.47	
7208.00	17.800	347.400	7198.28	63.89	-48.08	-67.39	608585.82	457871.52	32°15'29.942"N	103°58'55.427"W	8.98	
7240.00	20.100	339.700	7228.55	67.55	-38.15	-70.36	608582.84	457881.45	32°15'30.041"N	103°58'55.461"W	10.60	
7271.00	23.000	332.900	7257.39	72.87	-27.76	-74.97	608578.23	457891.84	32°15'30.144"N	103°58'55.515"W	12.33	
7303.00	25.100	325.800	7286.61	80.29	-16.58	-81.64	608571.57	457903.02	32°15'30.255"N	103°58'55.592"W	11.16	
7334.00	26.600	321.200	7314.51	89.07	-5.73	-89.68	608563.52	457913.87	32°15'30.362"N	103°58'55.685"W	8.08	
7354.00†	28.238	317.809	7332.27	95.53	1.27	-95.67	608557.54	457920.87	32°15'30.432"N	103°58'55.755"W	11.31	EST. CROSSING POINT
7363.00	29.000	316.400	7340.17	98.67	4.43	-98.60	608554.61	457924.03	32°15'30.463"N	103°58'55.789"W	11.31	
7397.00	32.000	311.100	7369.46	111.94	16.32	-111.08	608542.13	457935.92	32°15'30.581"N	103°58'55.933"W	11.84	
7428.00	34.200	306.700	7395.44	125.83	26.93	-124.26	608528.95	457946.53	32°15'30.687"N	103°58'56.087"W	10.51	
7458.00	35.600	302.500	7420.04	140.59	36.66	-138.39	608514.83	457956.26	32°15'30.783"N	103°58'56.251"W	9.27	
7491.00	36.200	297.600	7446.78	157.97	46.34	-155.13	608498.09	457965.94	32°15'30.880"N	103°58'56.445"W	8.89	
7523.00	36.400	292.500	7472.58	175.63	54.35	-172.28	608480.94	457973.95	32°15'30.960"N	103°58'56.645"W	9.45	
7552.00	37.000	287.600	7495.83	192.27	60.29	-188.55	608464.67	457979.88	32°15'31.019"N	103°58'56.834"W	10.31	
7586.00	38.200	284.000	7522.77	212.57	65.92	-208.50	608444.71	457985.52	32°15'31.075"N	103°58'57.066"W	7.36	
7617.00	39.300	281.200	7546.95	231.75	70.15	-227.44	608425.78	457989.74	32°15'31.118"N	103°58'57.286"W	6.67	
7649.00	41.100	278.400	7571.39	252.30	73.66	-247.79	608405.43	457993.25	32°15'31.153"N	103°58'57.523"W	7.97	
7680.00	43.700	278.100	7594.28	273.14	76.65	-268.47	608384.75	457996.25	32°15'31.183"N	103°58'57.764"W	8.41	
7712.00	46.400	278.400	7616.89	295.72	79.90	-290.88	608362.34	457999.50	32°15'31.216"N	103°58'58.025"W	8.46	
7741.00	49.300	278.200	7636.35	317.16	83.01	-312.15	608341.07	458002.60	32°15'31.248"N	103°58'58.272"W	10.01	
7774.00	52.500	278.800	7657.16	342.69	86.79	-337.48	608315.75	458006.39	32°15'31.286"N	103°58'58.567"W	9.80	
7806.00	55.900	278.200	7675.87	368.56	90.63	-363.14	608290.08	458010.22	32°15'31.325"N	103°58'58.866"W	10.73	
7835.00	59.300	278.000	7691.41	392.97	94.08	-387.38	608265.85	458013.67	32°15'31.360"N	103°58'59.148"W	11.74	
7869.00	63.900	278.400	7707.58	422.79	98.34	-416.98	608236.26	458017.93	32°15'31.403"N	103°58'59.492"W	13.57	
7900.00	67.700	279.500	7720.28	450.96	102.74	-444.90	608208.33	458022.34	32°15'31.447"N	103°58'59.817"W	12.68	
7930.00	70.900	279.000	7730.89	478.90	107.25	-472.60	608180.64	458026.85	32°15'31.493"N	103°59'00.140"W	10.78	
7963.00	73.400	278.700	7741.00	510.19	112.09	-503.63	608149.61	458031.68	32°15'31.542"N	103°59'00.501"W	7.63	
7995.00	76.600	277.800	7749.28	541.01	116.52	-534.22	608119.03	458036.11	32°15'31.586"N	103°59'00.857"W	10.36	
8024.00	80.200	276.900	7755.11	569.36	120.15	-562.39	608090.86	458039.74	32°15'31.623"N	103°59'01.185"W	12.78	
8057.00	84.000	275.100	7759.65	602.02	123.56	-594.89	608058.36	458043.15	32°15'31.658"N	103°59'01.563"W	12.72	



Actual Wellpath Report

No. 3H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Cypress) Sec 33, T23S, R29E	Wellbore	No. 3H AWB
Facility	Cypress 33 No. 3H		

WELLPATH DATA (162 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8127.00	86.000	275.800	7765.75	671.73	130.19	-664.30	607988.95	458049.78	32°15'31.726"N	103°59'02.371"W	3.03	
8222.00	86.100	275.600	7772.29	766.46	139.60	-758.61	607894.65	458059.19	32°15'31.822"N	103°59'03.469"W	0.23	
8316.00	88.500	275.500	7776.72	860.32	148.68	-852.06	607801.21	458068.27	32°15'31.915"N	103°59'04.557"W	2.56	
8410.00	88.700	275.200	7779.02	954.26	157.44	-945.62	607707.66	458077.03	32°15'32.005"N	103°59'05.646"W	0.38	
8504.00	90.000	274.800	7780.08	1048.24	165.63	-1039.25	607614.03	458085.22	32°15'32.089"N	103°59'06.736"W	1.45	
8601.00	90.500	275.700	7779.66	1145.21	174.51	-1135.84	607517.45	458094.10	32°15'32.180"N	103°59'07.861"W	1.06	
8695.00	90.600	274.700	7778.76	1239.18	183.03	-1229.45	607423.85	458102.61	32°15'32.267"N	103°59'08.950"W	1.07	
8789.00	90.200	273.700	7778.10	1333.18	189.91	-1323.19	607330.11	458109.50	32°15'32.338"N	103°59'10.042"W	1.15	
8884.00	90.400	272.900	7777.60	1428.17	195.38	-1418.04	607235.28	458114.97	32°15'32.395"N	103°59'11.146"W	0.87	
8977.00	89.900	272.700	7777.36	1521.15	199.92	-1510.92	607142.40	458119.51	32°15'32.443"N	103°59'12.227"W	0.58	
9073.00	90.500	271.400	7777.02	1617.09	203.36	-1606.86	607046.47	458122.94	32°15'32.480"N	103°59'13.344"W	1.49	
9167.00	90.300	272.000	7776.37	1711.02	206.15	-1700.81	606952.52	458125.73	32°15'32.511"N	103°59'14.438"W	0.67	
9261.00	90.400	271.800	7775.79	1804.95	209.26	-1794.76	606858.58	458128.85	32°15'32.545"N	103°59'15.532"W	0.24	
9356.00	90.800	271.600	7774.80	1899.87	212.08	-1889.71	606763.64	458131.66	32°15'32.575"N	103°59'16.638"W	0.47	
9450.00	90.600	272.100	7773.65	1993.80	215.12	-1983.66	606669.70	458134.70	32°15'32.608"N	103°59'17.732"W	0.57	
9545.00	91.100	272.500	7772.24	2088.75	218.93	-2078.57	606574.79	458138.51	32°15'32.649"N	103°59'18.837"W	0.67	
9639.00	90.000	272.200	7771.34	2182.70	222.78	-2172.49	606480.89	458142.36	32°15'32.690"N	103°59'19.930"W	1.21	
9733.00	90.800	272.200	7770.68	2276.66	226.39	-2266.41	606386.97	458145.97	32°15'32.729"N	103°59'21.024"W	0.85	
9828.00	91.300	272.300	7768.94	2371.60	230.12	-2361.32	606292.06	458149.70	32°15'32.769"N	103°59'22.129"W	0.54	
9922.00	91.200	271.700	7766.89	2465.52	233.40	-2455.24	606198.15	458152.98	32°15'32.804"N	103°59'23.223"W	0.65	
10016.00	91.400	271.800	7764.76	2559.42	236.27	-2549.18	606104.23	458155.85	32°15'32.836"N	103°59'24.316"W	0.24	
10110.00	90.600	270.900	7763.12	2653.31	238.48	-2643.13	606010.28	458158.06	32°15'32.861"N	103°59'25.410"W	1.28	
10204.00	90.800	271.300	7761.97	2747.18	240.29	-2737.11	605916.31	458159.87	32°15'32.881"N	103°59'26.505"W	0.48	
10298.00	90.800	271.400	7760.66	2841.07	242.50	-2831.07	605822.35	458162.08	32°15'32.906"N	103°59'27.599"W	0.11	
10392.00	90.800	271.200	7759.35	2934.96	244.63	-2925.04	605728.39	458164.22	32°15'32.930"N	103°59'28.693"W	0.21	
10487.00	90.800	271.300	7758.02	3029.85	246.71	-3020.01	605633.43	458166.29	32°15'32.954"N	103°59'29.799"W	0.11	
10582.00	90.900	271.300	7756.61	3124.73	248.86	-3114.97	605538.47	458168.44	32°15'32.978"N	103°59'30.904"W	0.11	
10676.00	90.800	270.700	7755.21	3218.59	250.50	-3208.95	605444.51	458170.08	32°15'32.997"N	103°59'31.999"W	0.65	
10770.00	90.900	270.600	7753.82	3312.43	251.57	-3302.93	605350.53	458171.15	32°15'33.011"N	103°59'33.093"W	0.15	
10864.00	90.800	271.200	7752.43	3406.28	253.04	-3396.91	605256.56	458172.62	32°15'33.028"N	103°59'34.187"W	0.65	



Actual Wellpath Report

No. 3H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Cypress) Sec 33, T23S, R29E	Wellbore	No. 3H AWB
Facility	Cypress 33 No. 3H		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10958.00	90.800	271.500	7751.11	3500.17	255.26	-3490.87	605162.60	458174.84	32°15'33.053"N	103°59'35.282"W	0.32	
11050.00	90.800	272.800	7749.83	3592.11	258.71	-3582.80	605070.69	458178.29	32°15'33.090"N	103°59'36.352"W	1.41	
11147.00	90.500	273.600	7748.73	3689.10	264.12	-3679.64	604973.85	458183.70	32°15'33.147"N	103°59'37.479"W	0.88	
11241.00	90.300	273.800	7748.07	3783.09	270.19	-3773.44	604880.06	458189.77	32°15'33.210"N	103°59'38.571"W	0.30	
11336.00	90.300	273.400	7747.57	3878.09	276.16	-3868.25	604785.25	458195.73	32°15'33.272"N	103°59'39.675"W	0.42	
11430.00	90.300	273.200	7747.08	3972.08	281.57	-3962.10	604691.42	458201.14	32°15'33.328"N	103°59'40.768"W	0.21	
11525.00	90.300	272.900	7746.59	4067.07	286.62	-4056.96	604596.56	458206.20	32°15'33.381"N	103°59'41.872"W	0.32	
11619.00	90.300	272.500	7746.09	4161.04	291.05	-4150.85	604502.68	458210.63	32°15'33.428"N	103°59'42.966"W	0.43	
11713.00	90.400	272.600	7745.52	4255.01	295.23	-4244.76	604408.78	458214.81	32°15'33.472"N	103°59'44.059"W	0.15	
11802.00	90.400	272.500	7744.90	4343.98	299.19	-4333.67	604319.88	458218.77	32°15'33.514"N	103°59'45.094"W	0.11	
11902.00	90.300	272.300	7744.29	4443.94	303.38	-4433.58	604219.97	458222.95	32°15'33.559"N	103°59'46.257"W	0.22	
11980.00†	90.300	272.300	7743.88	4521.91	306.51	-4511.51	604142.04	458226.08	32°15'33.592"N	103°59'47.165"W	0.00	

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 3H PBHL		7743.00	313.52	-4510.16	604143.40	458233.10	32°15'33.662"N	103°59'47.149"W	point

WELLPATH COMPOSITION Ref Wellbore: No. 3H AWB Ref Wellpath: No. 3H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6471.00	Generic gyro - continuous (Standard)	GYRO (100' - 6471')	No. 3H AWB
6471.00	7029.00	AutoTrak G1 and G2 (Standard)	ATK E (6492' - 7029')	No. 3H AWB
7029.00	8057.00	NaviTrak (Standard)	MWD (7078' - 8057')	No. 3H AWB
8057.00	11902.00	AutoTrak G1 and G2 (Standard)	ATK E 2 (8127' - 11902')	No. 3H AWB
11902.00	11980.00	Blind Drilling (std)	Projection to bit	No. 3H AWB