



Actual Wellpath Report

No. 2H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	COG Operating LLC	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Taurus) Sec 10, T15S, R31E	Wellbore	No. 2H AWB
Facility	Taurus State Com No. 2H	Sidetrack from	No. 2 AWB at 8300.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999939	Report Generated	11/26/2009 at 7:40:09 AM
Convergence at slot	0.29° East	Database/Source file	WellArchitectDB/No. 2H_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	704176.36	738364.80	33°01'43.072"N	103°48'07.245"W
Facility Reference Pt			704176.36	738364.80	33°01'43.072"N	103°48'07.245"W
Field Reference Pt			699556.00	736670.60	33°01'26.537"N	103°49'01.613"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 2H_SHL (RT) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 2H_SHL (RT) to Mean Sea Level	4421.00ft
Vertical Reference Pt	Rig on No. 2H_SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 2H_SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.49°

SUR: I-10-15s-31e, 1980/S & 330/E
BHL: L-10-15s-31e, 1943/S & 4949/E
API # 30-005-27995



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
0.00	0.000	330.240	0.00	0.00	0.00	0.00	704176.36	738364.80	0.00
100.00	0.420	330.240	100.00	0.18	0.32	-0.18	704176.18	738365.12	0.42
200.00	0.920	310.550	199.99	0.96	1.16	-0.97	704175.39	738365.96	0.54
300.00	1.210	305.450	299.97	2.42	2.29	-2.44	704173.92	738367.09	0.30
400.00	1.180	271.930	399.95	4.31	2.94	-4.33	704172.03	738367.74	0.69
500.00	1.260	264.350	499.93	6.43	2.87	-6.46	704169.90	738367.67	0.18
600.00	1.210	270.610	599.91	8.58	2.77	-8.61	704167.75	738367.57	0.14
700.00	1.260	266.730	699.89	10.74	2.72	-10.76	704165.60	738367.52	0.10
800.00	1.030	275.980	799.87	12.73	2.75	-12.75	704163.61	738367.55	0.29
900.00	1.000	268.340	899.85	14.49	2.82	-14.52	704161.84	738367.62	0.14
1000.00	0.900	276.100	999.84	16.14	2.88	-16.17	704160.19	738367.67	0.16
1100.00	0.930	261.160	1099.82	17.73	2.83	-17.75	704158.61	738367.63	0.24
1200.00	0.910	271.440	1199.81	19.32	2.73	-19.35	704157.01	738367.53	0.17
1300.00	0.750	257.100	1299.80	20.76	2.60	-20.78	704155.58	738367.40	0.26
1400.00	0.540	270.990	1399.79	21.87	2.46	-21.89	704154.47	738367.26	0.26
1500.00	0.370	278.500	1499.79	22.66	2.52	-22.68	704153.68	738367.32	0.18
1600.00	0.350	311.770	1599.79	23.20	2.77	-23.23	704153.13	738367.57	0.21
1700.00	0.500	305.190	1699.79	23.78	3.23	-23.81	704152.55	738368.03	0.16
1800.00	0.440	308.430	1799.78	24.44	3.72	-24.47	704151.89	738368.52	0.07
1900.00	0.240	346.460	1899.78	24.78	4.16	-24.82	704151.54	738368.96	0.29
2000.00	0.630	59.370	1999.78	24.35	4.64	-24.40	704151.97	738369.44	0.60
2100.00	0.960	58.430	2099.77	23.16	5.36	-23.21	704153.15	738370.16	0.33
2200.00	1.070	48.710	2199.75	21.74	6.42	-21.79	704154.57	738371.22	0.20
2300.00	1.120	47.500	2299.73	20.30	7.69	-20.37	704155.99	738372.49	0.06
2400.00	1.020	45.780	2399.72	18.93	8.97	-19.01	704157.35	738373.77	0.11
2500.00	0.870	51.000	2499.70	17.70	10.07	-17.78	704158.58	738374.87	0.17
2600.00	0.780	53.880	2599.69	16.55	10.95	-16.65	704159.72	738375.75	0.10
2700.00	0.720	55.240	2699.68	15.48	11.71	-15.58	704160.78	738376.51	0.06
2800.00	0.750	51.780	2799.68	14.44	12.47	-14.55	704161.81	738377.27	0.05
2900.00	0.680	53.780	2899.67	13.44	13.23	-13.56	704162.81	738378.03	0.07



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
3000.00	0.700	61.600	2999.66	12.42	13.87	-12.54	704163.82	738378.67	0.10
3100.00	0.730	57.390	3099.65	11.34	14.50	-11.47	704164.89	738379.30	0.06
3200.00	0.730	63.160	3199.65	10.23	15.14	-10.36	704166.00	738379.93	0.07
3300.00	0.600	57.210	3299.64	9.21	15.71	-9.35	704167.01	738380.51	0.15
3400.00	0.600	65.600	3399.63	8.29	16.21	-8.44	704167.93	738381.01	0.09
3500.00	0.680	68.290	3499.63	7.26	16.64	-7.41	704168.95	738381.44	0.09
3600.00	0.830	69.050	3599.62	6.03	17.12	-6.18	704170.18	738381.92	0.15
3700.00	0.950	58.270	3699.61	4.64	17.82	-4.80	704171.56	738382.61	0.21
3800.00	0.900	58.020	3799.59	3.26	18.67	-3.43	704172.93	738383.47	0.05
3900.00	0.830	61.870	3899.58	1.95	19.43	-2.12	704174.24	738384.22	0.09
4000.00	0.780	61.770	3999.57	0.71	20.09	-0.88	704175.48	738384.89	0.05
4100.00	0.700	57.050	4099.56	-0.41	20.74	0.23	704176.59	738385.54	0.10
4200.00	0.490	65.290	4199.56	-1.32	21.25	1.13	704177.49	738386.05	0.23
4300.00	0.410	75.270	4299.56	-2.05	21.52	1.86	704178.22	738386.32	0.11
4400.00	0.290	48.530	4399.55	-2.59	21.78	2.40	704178.76	738386.58	0.20
4500.00	0.090	11.130	4499.55	-2.80	22.03	2.60	704178.96	738386.83	0.23
4600.00	0.240	333.760	4599.55	-2.72	22.29	2.53	704178.89	738387.09	0.18
4700.00	0.130	6.230	4699.55	-2.65	22.59	2.45	704178.81	738387.39	0.15
4800.00	0.250	357.330	4799.55	-2.65	22.92	2.45	704178.81	738387.72	0.12
4900.00	0.700	342.660	4899.55	-2.47	23.72	2.26	704178.62	738388.52	0.46
5000.00	0.610	25.950	4999.54	-2.53	24.79	2.31	704178.67	738389.58	0.49
5100.00	0.390	53.140	5099.54	-3.04	25.47	2.81	704179.17	738390.27	0.32
5200.00	0.450	75.990	5199.54	-3.69	25.77	3.47	704179.83	738390.57	0.18
5300.00	0.150	88.710	5299.53	-4.21	25.87	3.98	704180.34	738390.66	0.31
5400.00	0.310	128.630	5399.53	-4.55	25.70	4.32	704180.68	738390.50	0.22
5500.00	0.130	215.140	5499.53	-4.69	25.44	4.47	704180.83	738390.24	0.33
5600.00	0.230	241.350	5599.53	-4.45	25.25	4.23	704180.59	738390.05	0.13
5700.00	0.250	279.910	5699.53	-4.06	25.19	3.83	704180.19	738389.99	0.16
5800.00	0.340	284.280	5799.53	-3.56	25.30	3.33	704179.69	738390.10	0.09
5900.00	0.620	277.600	5899.53	-2.73	25.45	2.51	704178.87	738390.24	0.29



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6000.00	0.630	273.710	5999.52	-1.65	25.55	1.42	704177.78	738390.35	0.04
6100.00	0.790	268.300	6099.51	-0.41	25.57	0.19	704176.55	738390.37	0.17
6200.00	0.660	267.590	6199.50	0.85	25.52	-1.08	704175.28	738390.32	0.13
6300.00	0.690	268.360	6299.50	2.03	25.48	-2.26	704174.10	738390.28	0.03
6400.00	0.580	252.730	6399.49	3.12	25.31	-3.34	704173.02	738390.11	0.20
6500.00	0.450	260.000	6499.49	3.99	25.10	-4.21	704172.15	738389.89	0.15
6600.00	0.490	262.670	6599.48	4.80	24.97	-5.02	704171.34	738389.77	0.05
6700.00	0.550	272.680	6699.48	5.71	24.94	-5.93	704170.43	738389.74	0.11
6800.00	0.630	269.570	6799.47	6.73	24.96	-6.96	704169.41	738389.76	0.09
6900.00	0.560	271.740	6899.47	7.77	24.97	-7.99	704168.37	738389.77	0.07
7000.00	0.610	271.750	6999.46	8.79	25.00	-9.01	704167.35	738389.80	0.05
7100.00	0.570	284.840	7099.46	9.80	25.14	-10.03	704166.33	738389.94	0.14
7200.00	0.520	286.010	7199.45	10.72	25.40	-10.94	704165.42	738390.20	0.05
7300.00	0.390	302.060	7299.45	11.44	25.70	-11.67	704164.69	738390.50	0.18
7400.00	0.290	290.400	7399.45	11.96	25.97	-12.19	704164.17	738390.77	0.12
7500.00	0.150	269.470	7499.45	12.33	26.06	-12.56	704163.80	738390.86	0.16
7600.00	0.060	302.190	7599.45	12.51	26.09	-12.74	704163.62	738390.88	0.10
7700.00	0.400	91.010	7699.45	12.20	26.11	-12.43	704163.93	738390.91	0.45
7800.00	0.480	105.790	7799.44	11.45	25.99	-11.68	704164.68	738390.79	0.14
7900.00	0.860	94.320	7899.44	10.30	25.82	-10.53	704165.83	738390.62	0.40
8000.00	1.650	95.410	7999.41	8.12	25.62	-8.35	704168.01	738390.42	0.79
8100.00	1.810	98.220	8099.37	5.13	25.26	-5.35	704171.01	738390.06	0.18
8200.00	2.030	100.130	8199.31	1.83	24.73	-2.04	704174.32	738389.52	0.23
8300.00	3.260	82.120	8299.20	-2.73	24.80	2.52	704178.88	738389.60	1.47
8325.00	2.700	95.600	8324.17	-4.03	24.84	3.81	704180.17	738389.64	3.57
8357.00	0.300	122.500	8356.16	-4.84	24.73	4.63	704180.99	738389.52	7.61
8389.00	3.200	271.300	8388.14	-4.02	24.70	3.80	704180.16	738389.50	10.81
8421.00	6.700	268.500	8420.02	-1.26	24.67	1.04	704177.40	738389.47	10.96
8453.00	10.100	270.200	8451.67	3.41	24.63	-3.63	704172.73	738389.43	10.65
8485.00	14.100	270.300	8482.95	10.12	24.66	-10.34	704166.03	738389.46	12.50



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8517.00	17.800	271.100	8513.72	18.91	24.78	-19.13	704157.23	738389.58	11.58
8549.00	22.300	271.700	8543.77	29.87	25.05	-30.09	704146.27	738389.85	14.08
8593.00	29.000	272.400	8583.41	48.88	25.75	-49.11	704127.25	738390.55	15.24
8624.00	33.300	270.600	8609.93	64.91	26.15	-65.14	704111.23	738390.95	14.19
8656.00	37.800	269.600	8635.96	83.50	26.17	-83.74	704092.63	738390.97	14.18
8688.00	41.900	270.600	8660.53	104.00	26.22	-104.24	704072.13	738391.02	12.97
8720.00	46.000	271.000	8683.56	126.20	26.53	-126.44	704049.93	738391.33	12.84
8752.00	50.900	271.400	8704.78	150.13	27.04	-150.38	704025.99	738391.83	15.34
8784.00	56.100	271.000	8723.81	175.83	27.57	-176.08	704000.29	738392.37	16.28
8816.00	60.000	269.500	8740.74	202.98	27.68	-203.23	703973.14	738392.48	12.82
8848.00	61.800	269.400	8756.30	230.94	27.41	-231.19	703945.19	738392.21	5.63
8879.00	65.500	269.100	8770.06	258.71	27.05	-258.96	703917.42	738391.85	11.97
8911.00	70.000	268.400	8782.17	288.32	26.40	-288.56	703887.82	738391.20	14.21
8941.00	73.100	267.500	8791.66	316.76	25.38	-317.00	703859.38	738390.18	10.72
8975.00	77.400	267.300	8800.32	349.61	23.89	-349.84	703826.55	738388.69	12.66
9007.00	81.800	268.500	8806.09	381.07	22.74	-381.28	703795.10	738387.54	14.24
9039.00	85.600	268.900	8809.60	412.86	22.02	-413.07	703763.31	738386.81	11.94
9071.00	89.200	269.600	8811.05	444.83	21.60	-445.03	703731.35	738386.40	11.46
9103.00	89.200	269.700	8811.50	476.82	21.40	-477.03	703699.36	738386.20	0.31
9146.00	88.700	268.900	8812.29	519.81	20.88	-520.02	703656.37	738385.68	2.19
9178.00	88.600	269.000	8813.04	551.80	20.29	-552.00	703624.39	738385.09	0.44
9210.00	88.900	268.800	8813.74	583.79	19.68	-583.99	703592.41	738384.48	1.13
9242.00	89.000	269.000	8814.33	615.79	19.06	-615.98	703560.42	738383.86	0.70
9273.00	89.000	268.900	8814.87	646.78	18.49	-646.97	703529.43	738383.29	0.32
9305.00	89.700	269.000	8815.23	678.78	17.91	-678.96	703497.44	738382.71	2.21
9337.00	90.600	269.300	8815.15	710.78	17.43	-710.96	703465.45	738382.23	2.96
9433.00	90.200	268.900	8814.48	806.77	15.93	-806.94	703369.47	738380.72	0.59
9529.00	91.500	268.400	8813.05	902.75	13.66	-902.90	703273.51	738378.46	1.45
9625.00	90.400	268.200	8811.46	998.71	10.82	-998.85	703177.58	738375.62	1.16
9719.00	90.400	268.100	8810.81	1092.68	7.78	-1092.80	703083.63	738372.58	0.11



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9814.00	90.600	268.000	8809.98	1187.65	4.55	-1187.74	702988.70	738369.35	0.24
9909.00	90.700	267.600	8808.90	1282.60	0.90	-1282.66	702893.78	738365.70	0.43
10006.00	91.900	269.900	8806.70	1379.56	-1.21	-1379.60	702796.84	738363.59	2.67
10101.00	90.700	270.100	8804.54	1474.53	-1.21	-1474.58	702701.87	738363.59	1.28
10197.00	90.400	269.500	8803.62	1570.52	-1.55	-1570.57	702605.89	738363.25	0.70
10292.00	90.400	269.800	8802.96	1665.52	-2.13	-1665.57	702510.90	738362.67	0.32
10388.00	90.200	270.000	8802.46	1761.52	-2.30	-1761.57	702414.90	738362.50	0.29
10484.00	89.700	269.600	8802.54	1857.52	-2.63	-1857.57	702318.91	738362.17	0.67
10580.00	89.600	269.400	8803.13	1953.51	-3.47	-1953.56	702222.92	738361.33	0.23
10676.00	89.800	269.100	8803.63	2049.51	-4.72	-2049.55	702126.94	738360.08	-0.38
10772.00	91.900	268.800	8802.20	2145.49	-6.48	-2145.52	702030.98	738358.32	2.21
10867.00	91.300	268.600	8799.55	2240.45	-8.64	-2240.46	701936.04	738356.16	0.67
10963.00	90.300	269.200	8798.21	2336.43	-10.48	-2336.43	701840.08	738354.32	1.21
11058.00	90.400	268.900	8797.63	2431.42	-12.06	-2431.41	701745.10	738352.75	0.33
11154.00	91.200	270.300	8796.29	2527.41	-12.73	-2527.40	701649.12	738352.07	1.68
11250.00	90.700	271.100	8794.70	2623.38	-11.55	-2623.38	701553.15	738353.25	0.98
11346.00	90.400	271.100	8793.78	2719.33	-9.71	-2719.35	701457.18	738355.09	0.31
11441.00	89.800	270.600	8793.61	2814.31	-8.30	-2814.34	701362.19	738356.50	0.82
11537.00	90.500	269.000	8793.36	2910.30	-8.64	-2910.34	701266.20	738356.16	1.82
11632.00	89.900	268.400	8793.03	3005.29	-10.79	-3005.31	701171.24	738354.01	0.89
11728.00	90.100	268.300	8793.03	3101.27	-13.56	-3101.27	701075.28	738351.25	0.23
11824.00	92.000	268.500	8791.27	3197.23	-16.24	-3197.21	700979.35	738348.57	1.99
11919.00	91.800	268.400	8788.12	3292.16	-18.80	-3292.13	700884.44	738346.00	0.24
12015.00	92.100	268.500	8784.85	3388.09	-21.40	-3388.04	700788.54	738343.40	0.33
12111.00	91.600	268.200	8781.75	3484.02	-24.16	-3483.95	700692.63	738340.64	0.61
12207.00	92.000	268.100	8778.74	3579.95	-27.26	-3579.85	700596.74	738337.54	0.43
12302.00	91.400	267.900	8775.92	3674.88	-30.57	-3674.75	700501.84	738334.23	0.67
12399.00	90.700	267.800	8774.14	3771.82	-34.21	-3771.66	700404.93	738330.59	0.73
12492.00	90.300	269.800	8773.33	3864.80	-36.16	-3864.63	700311.97	738328.64	2.19
12588.00	90.000	270.100	8773.08	3960.80	-36.24	-3960.63	700215.97	738328.56	0.44



Actual Wellpath Report

No. 2H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	COG Operating LLC	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Taurus) Sec 10, T15S, R31E	Wellbore	No. 2H AWB
Facility	Taurus State Com No. 2H	Sidetrack from	No. 2 AWB at 8300.00 MD

WELLPATH DATA (158 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	DLS [°/100ft]
12684.00	90.300	270.000	8772.83	4056.79	-36.16	-4056.63	700119.98	738328.64	0.33
12780.00	89.600	270.200	8772.91	4152.79	-35.99	-4152.63	700023.99	738328.81	0.76
12875.00	89.100	270.200	8773.99	4247.77	-35.66	-4247.63	699929.00	738329.14	0.53
12971.00	90.000	269.800	8774.74	4343.77	-35.66	-4343.62	699833.01	738329.14	1.03
13067.00	90.100	269.800	8774.66	4439.77	-36.00	-4439.62	699737.02	738328.81	0.10
13163.00	90.100	269.700	8774.49	4535.76	-36.41	-4535.62	699641.02	738328.39	0.10
13190.00	90.100	269.500	8774.45	4562.76	-36.60	-4562.62	699614.03	738328.20	0.74
13246.00	90.100	269.500	8774.35	4618.76	-37.09	-4618.62	699558.03	738327.71	0.00



Actual Wellpath Report

No. 2H AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	COG Operating LLC	Slot	No. 2H SHL
Area	Chaves County, NM	Well	No. 2H
Field	(Taurus) Sec 10, T15S, R31E	Wellbore	No. 2H AWB
Facility	Taurus State Com No. 2H	Sidetrack from	No. 2 AWB at 8300.00 MD

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
No. 2H PBHL		8767.98	-40.74	-4619.44	699557.21	738324.06	33°01'42.897"N	103°49'01.503"W	point
No. 2H TGT 3		8817.00	-2.40	-1971.62	702204.86	738362.40	33°01'43.147"N	103°48'30.402"W	point
No. 2H TGT 4		8818.00	-9.75	-2471.56	701704.95	738355.05	33°01'43.098"N	103°48'36.274"W	point
No. 2H TGT 6		8819.00	-24.45	-3471.44	700705.14	738340.35	33°01'43.002"N	103°48'48.019"W	point
No. 2H TGT 1		8822.00	12.30	-971.73	703204.69	738377.10	33°01'43.242"N	103°48'18.657"W	point
No. 2H TGT 2		8822.00	4.95	-1471.68	702704.77	738369.75	33°01'43.195"N	103°48'24.529"W	point
No. 2H TGT 5		8822.00	-17.10	-2971.50	701205.05	738347.70	33°01'43.050"N	103°48'42.146"W	point
No. 2H TGT 7		8824.00	-31.80	-3971.38	700205.23	738333.00	33°01'42.954"N	103°48'53.891"W	point
No. 2H TGT 8		8832.00	-39.14	-4471.33	699705.31	738325.66	33°01'42.906"N	103°48'59.763"W	point

WELLPATH COMPOSITION Ref Wellbore: No. 2H AWB Ref Wellpath: No. 2H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8300.00	Generic gyro - continuous (Standard)	GYRO <100 - 8930>	No. 2 AWB
8300.00	13190.00	NaviTrak (Standard)	ATKe - <8325 - 13190>	No. 2H AWB
13190.00	13246.00	Blind Drilling (std)	Projection to bit	No. 2H AWB