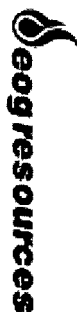


JUN 05 2017

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Boyd X State COM No. 15H ST01awp 1914' - 7101' Proj: 7172'
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Actual Wellpath Report



REFERENCE WELLPATH IDENTIFICATION

Operator	EOG Resources, Inc.	Slot	Boyd X State Com No. 15H
Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
Facility	Boyd X State Com No. 15H	Sidetrack from	Boyd X State Com No. 15H AWB_ awp at 1875.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / TTM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect@ 5.0
North Reference	Grid	User	Buiduyh
Scale	0.999912	Report Generated	17/Apr/2017 at 10:39
Convergence at slot	0.09° West	Database/Source file	WA_Midland/Boyd_X_State_COM_No._15H_ST01awp_1914_- 7101 _Proj_7172_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	490582.30	604972.90	32°39'46.830"N	104°29'53.750"W
Facility Reference Pt			490582.30	604972.90	32°39'46.830"N	104°29'53.750"W
Field Reference Pt			165000.00	0.00	30°59'39.893"N	105°32'03.866"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig: Aztec Drilling Rig 980 (KB) to Facility Vertical Datum	3531.50ft
Horizontal Reference Pt	Slot	Rig: Aztec Drilling Rig 980 (KB) to Mean Sea Level	3531.50ft
Vertical Reference Pt	Rig: Aztec Drilling Rig 980 (KB)	Rig: Aztec Drilling Rig 980 (KB) to Ground Level at Slot (Boyd X State Com No. 15H)	14.50ft
MD Reference Pt	Rig: Aztec Drilling Rig 980 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	94.14°

30-015-42223



Actual Wellpath Report
Boyd X State COM No. 15H ST01awp 1914' - 7101' Proj: 7172'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EOG Resources, Inc.	Slot	Boyd X State Com No. 15H
Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
Facility	Boyd X State Com No. 15H	Sidetrack from	Boyd X State Com No. 15H AWB_ awp at 1875.00 MD

WELLPATH DATA (177 stations) † = interpolated/extrapolated station

MD ft†	Inclination °	Azimuth °	TVD ft†	Vert Sect ft†	North ft†	East ft†	Grid East US ft†	Grid North US ft†	Latitude	Longitude	DLS ft/100ft†	Build Rate ft/100ft†	Turn Rate ft/100ft†	Comments
0.00†	0.000	119.260	0.00	0.00	0.00	0.00	490582.30	604972.90	32°39'46.830"N	104°29'53.750"W	0.00	0.00	0.00	
14.50	0.000	119.260	14.50	0.00	0.00	0.00	490582.30	604972.90	32°39'46.830"N	104°29'53.750"W	0.00	0.00	0.00	
100.00	1.070	119.260	100.00	0.72	-0.39	0.70	490583.00	604972.51	32°39'46.826"N	104°29'53.742"W	1.25	1.25	139.49	
125.00	0.910	112.300	124.99	1.12	-0.58	1.08	490583.38	604972.32	32°39'46.824"N	104°29'53.737"W	0.80	-0.64	-27.84	
150.00	0.860	110.270	149.99	1.49	-0.72	1.44	490583.74	604972.18	32°39'46.823"N	104°29'53.733"W	0.24	-0.20	-8.12	
175.00	0.900	108.910	174.99	1.86	-0.85	1.81	490584.11	604972.05	32°39'46.822"N	104°29'53.729"W	0.18	0.16	-5.44	
200.00	0.860	109.430	199.98	2.23	-0.97	2.17	490584.47	604971.93	32°39'46.819"N	104°29'53.724"W	0.16	-0.16	2.08	
225.00	0.830	106.730	224.98	2.59	-1.09	2.52	490584.82	604971.81	32°39'46.819"N	104°29'53.720"W	0.20	-0.12	-10.80	
250.00	0.750	110.300	249.98	2.92	-1.20	2.85	490585.14	604971.70	32°39'46.818"N	104°29'53.717"W	0.38	-0.32	14.28	
275.00	0.770	127.030	274.98	3.22	-1.36	3.13	490585.43	604971.54	32°39'46.817"N	104°29'53.713"W	0.89	0.08	66.92	
300.00	0.910	140.250	299.97	3.50	-1.61	3.39	490585.69	604971.29	32°39'46.814"N	104°29'53.710"W	0.95	0.56	52.88	
325.00	0.900	151.890	324.97	3.74	-1.94	3.61	490585.91	604970.96	32°39'46.811"N	104°29'53.708"W	0.74	-0.04	46.56	
350.00	1.020	155.360	349.97	3.96	-2.31	3.80	490586.10	604970.59	32°39'46.807"N	104°29'53.705"W	0.53	0.48	13.88	
375.00	1.040	157.860	374.96	4.16	-2.72	3.98	490586.28	604970.18	32°39'46.803"N	104°29'53.703"W	0.20	0.08	10.00	
400.00	1.010	157.850	399.96	4.36	-3.14	4.15	490586.44	604969.76	32°39'46.799"N	104°29'53.701"W	0.12	-0.12	-0.04	
425.00	1.030	161.130	424.95	4.55	-3.55	4.30	490586.60	604969.35	32°39'46.795"N	104°29'53.699"W	0.25	0.08	13.12	
450.00	1.040	167.890	449.95	4.70	-3.99	4.42	490586.72	604968.91	32°39'46.791"N	104°29'53.698"W	0.49	0.04	27.04	
475.00	1.270	174.030	474.94	4.81	-4.49	4.50	490586.80	604968.41	32°39'46.786"N	104°29'53.697"W	1.04	0.92	24.56	
500.00	1.400	176.240	499.94	4.90	-5.07	4.55	490586.85	604967.83	32°39'46.780"N	104°29'53.697"W	0.56	0.52	8.84	
525.00	1.480	175.330	524.93	4.99	-5.69	4.59	490586.89	604967.21	32°39'46.774"N	104°29'53.696"W	0.33	0.32	-3.64	
550.00	1.490	175.560	549.92	5.09	-6.34	4.64	490586.94	604966.56	32°39'46.768"N	104°29'53.695"W	0.05	0.04	0.92	
575.00	1.390	176.860	574.91	5.18	-6.97	4.69	490586.99	604966.93	32°39'46.761"N	104°29'53.695"W	0.42	-0.40	5.20	
600.00	1.380	179.090	599.91	5.24	-7.57	4.71	490587.01	604966.33	32°39'46.755"N	104°29'53.695"W	0.22	-0.04	8.92	
625.00	1.360	182.440	624.90	5.28	-8.17	4.70	490587.00	604965.73	32°39'46.749"N	104°29'53.695"W	0.33	-0.08	13.40	
650.00	1.280	186.970	649.89	5.27	-8.74	4.65	490586.95	604964.16	32°39'46.744"N	104°29'53.695"W	0.53	-0.32	18.12	
675.00	1.240	185.780	674.89	5.25	-9.29	4.59	490586.89	604963.61	32°39'46.738"N	104°29'53.696"W	0.19	-0.16	-4.76	
700.00	1.310	183.010	699.88	5.25	-9.84	4.55	490586.85	604963.06	32°39'46.733"N	104°29'53.696"W	0.37	0.28	-11.08	
725.00	1.220	181.670	724.87	5.27	-10.39	4.53	490586.83	604962.51	32°39'46.727"N	104°29'53.697"W	0.38	-0.36	-5.36	
750.00	1.170	182.470	749.87	5.28	-10.91	4.51	490586.81	604961.99	32°39'46.722"N	104°29'53.697"W	0.21	-0.20	3.20	
775.00	1.110	183.990	774.86	5.29	-11.41	4.48	490586.78	604961.49	32°39'46.717"N	104°29'53.697"W	0.27	-0.24	6.08	



Actual Wellpath Report
Boyd X State COM No. 15H ST01awp 1914' - 7101' Proj: 7172'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EOG Resources, Inc.	Slot	Boyd X State Com No. 15H
Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
Facility	Boyd X State Com No. 15H	Sidetrack from	Boyd X State Com No. 15H AWB_awp at 1875.00 MD

WELLPATH DATA (177 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft			ft/100ft	ft/100ft	ft/100ft	
800.00	1.170	187.350	799.86	5.28	-11.90	4.43	490586.73	604961.00	32°39'46.712"N	104°29'53.698"W	0.36	0.24	13.44	
825.00	1.130	182.760	824.85	5.27	-12.40	4.39	490586.69	604960.50	32°39'46.708"N	104°29'53.698"W	0.40	-0.16	-18.36	
850.00	1.220	178.970	849.85	5.30	-12.92	4.38	490586.68	604959.98	32°39'46.702"N	104°29'53.698"W	0.48	0.36	-15.16	
875.00	1.100	177.760	874.84	5.35	-13.42	4.39	490586.69	604959.48	32°39'46.697"N	104°29'53.698"W	0.49	-0.48	-4.84	
900.00	0.930	176.150	899.84	5.41	-13.86	4.42	490586.72	604959.04	32°39'46.693"N	104°29'53.698"W	0.69	-0.68	-6.44	
925.00	0.710	189.120	924.84	5.42	-14.22	4.41	490586.71	604958.68	32°39'46.690"N	104°29'53.698"W	1.15	-0.88	51.88	
950.00	0.460	188.230	949.84	5.40	-14.47	4.37	490586.67	604958.43	32°39'46.687"N	104°29'53.698"W	1.00	-1.00	-3.56	
975.00	0.330	163.010	974.84	5.42	-14.64	4.37	490586.67	604958.26	32°39'46.685"N	104°29'53.698"W	0.86	-0.52	-100.88	
1000.00	0.540	124.690	999.83	5.55	-14.78	4.49	490586.79	604958.12	32°39'46.684"N	104°29'53.697"W	1.39	0.84	-153.28	
1025.00	1.010	136.220	1024.83	5.81	-15.00	4.74	490587.04	604957.90	32°39'46.682"N	104°29'53.694"W	1.97	1.88	-46.12	
1050.00	1.090	143.640	1049.83	6.13	-15.35	5.03	490587.33	604957.55	32°39'46.678"N	104°29'53.691"W	0.63	0.32	29.68	
1075.00	1.050	151.450	1074.82	6.41	-15.75	5.28	490587.58	604957.16	32°39'46.674"N	104°29'53.688"W	0.60	-0.16	31.24	
1100.00	1.140	154.940	1099.82	6.65	-16.17	5.50	490587.80	604956.73	32°39'46.670"N	104°29'53.685"W	0.45	0.36	13.96	
1125.00	1.210	154.960	1124.81	6.90	-16.64	5.72	490588.02	604956.26	32°39'46.666"N	104°29'53.683"W	0.28	0.28	0.08	
1150.00	0.970	149.480	1149.81	7.15	-17.06	5.94	490588.23	604955.84	32°39'46.661"N	104°29'53.680"W	1.05	-0.96	-21.92	
1175.00	1.000	147.790	1174.81	7.40	-17.43	6.16	490588.46	604955.48	32°39'46.658"N	104°29'53.677"W	0.17	0.12	-6.76	
1200.00	0.810	149.190	1199.80	7.63	-17.76	6.37	490588.67	604955.14	32°39'46.655"N	104°29'53.675"W	0.77	-0.76	5.60	
1225.00	0.870	161.570	1224.80	7.81	-18.09	6.52	490588.82	604954.81	32°39'46.651"N	104°29'53.673"W	0.76	0.24	49.52	
1250.00	0.910	162.110	1249.80	7.95	-18.46	6.64	490588.94	604954.44	32°39'46.648"N	104°29'53.672"W	0.16	0.16	2.16	
1275.00	0.950	158.760	1274.79	8.12	-18.84	6.77	490589.07	604954.06	32°39'46.644"N	104°29'53.670"W	0.27	0.16	-13.40	
1300.00	0.830	154.420	1299.79	8.29	-19.20	6.93	490589.23	604953.70	32°39'46.640"N	104°29'53.668"W	0.55	-0.48	-17.36	
1325.00	0.690	155.610	1324.79	8.46	-19.50	7.07	490589.37	604953.40	32°39'46.637"N	104°29'53.667"W	0.56	-0.56	4.76	
1350.00	0.640	160.880	1349.79	8.58	-19.77	7.18	490589.47	604953.13	32°39'46.635"N	104°29'53.666"W	0.32	-0.20	21.08	
1375.00	0.750	165.230	1374.78	8.69	-20.06	7.26	490589.56	604952.84	32°39'46.632"N	104°29'53.665"W	0.49	0.44	17.40	
1400.00	0.800	161.950	1389.78	8.81	-20.38	7.36	490589.66	604952.52	32°39'46.628"N	104°29'53.663"W	0.27	0.20	-13.12	
1425.00	0.770	156.930	1424.78	8.95	-20.71	7.48	490589.78	604952.20	32°39'46.625"N	104°29'53.662"W	0.30	-0.12	-20.08	
1450.00	0.640	158.080	1449.78	9.09	-20.99	7.60	490589.90	604951.91	32°39'46.623"N	104°29'53.661"W	0.52	-0.52	4.60	
1475.00	0.660	163.210	1474.78	9.20	-21.26	7.69	490589.99	604951.65	32°39'46.620"N	104°29'53.660"W	0.25	0.08	20.52	
1500.00	0.690	166.190	1499.77	9.30	-21.54	7.77	490590.07	604951.36	32°39'46.617"N	104°29'53.659"W	0.18	0.12	11.92	
1525.00	0.710	162.920	1524.77	9.40	-21.83	7.85	490590.15	604951.07	32°39'46.614"N	104°29'53.658"W	0.18	0.08	-13.08	



Actual Wellpath Report
Boyd X State COM No. 15H ST01awp 1914' - 7101' Proj: 71172'
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REFERENCE WELLPATH IDENTIFICATION

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Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
Facility	Boyd X State Com No. 15H	Sidetrack from	Boyd X State Com No. 15H AWB_awp at 1875.00 MD

WELLPATH DATA (177 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	US ft	US ft			ft/100ft	ft/100ft	ft/100ft	
1550.00	0.690	156.710	1549.77	9.53	-22.12	7.95	490590.25	604950.78	32°39'46.611"N	104°29'53.656"W	0.31	-0.08	-24.84	
1575.00	0.570	161.070	1574.77	9.65	-22.38	8.05	490590.35	604950.53	32°39'46.609"N	104°29'53.655"W	0.52	-0.48	17.44	
1600.00	0.520	168.960	1599.77	9.73	-22.61	8.12	490590.41	604950.30	32°39'46.607"N	104°29'53.654"W	0.36	-0.20	31.56	
1625.00	0.650	171.660	1624.77	9.79	-22.86	8.16	490590.46	604950.04	32°39'46.604"N	104°29'53.654"W	0.53	0.52	10.80	
1650.00	0.640	167.190	1649.77	9.86	-23.13	8.21	490590.51	604949.77	32°39'46.601"N	104°29'53.653"W	0.21	-0.04	-17.88	
1675.00	0.670	158.850	1674.76	9.96	-23.41	8.29	490590.59	604949.50	32°39'46.599"N	104°29'53.652"W	0.40	0.12	-33.36	
1700.00	0.480	164.070	1699.76	10.06	-23.64	8.37	490590.67	604949.26	32°39'46.596"N	104°29'53.651"W	0.79	-0.76	20.88	
1725.00	0.490	173.030	1724.76	10.12	-23.85	8.42	490590.72	604949.05	32°39'46.594"N	104°29'53.651"W	0.31	0.04	35.84	
1750.00	0.550	173.090	1749.76	10.16	-24.08	8.44	490590.74	604948.83	32°39'46.592"N	104°29'53.651"W	0.24	0.24	0.24	
1775.00	0.680	165.320	1774.76	10.23	-24.34	8.50	490590.80	604948.56	32°39'46.589"N	104°29'53.650"W	0.62	0.52	-31.08	
1800.00	0.570	157.760	1799.76	10.33	-24.60	8.58	490590.88	604948.31	32°39'46.587"N	104°29'53.648"W	0.55	-0.44	-30.16	
1825.00	0.440	161.500	1824.76	10.43	-24.80	8.66	490590.96	604948.10	32°39'46.585"N	104°29'53.648"W	0.54	-0.52	14.88	
1850.00	0.530	175.990	1849.76	10.48	-25.01	8.70	490591.00	604947.89	32°39'46.583"N	104°29'53.648"W	0.61	0.36	57.96	
1875.00	0.650	171.710	1874.75	10.53	-25.27	8.73	490591.02	604947.64	32°39'46.580"N	104°29'53.647"W	0.51	0.48	-17.12	
1914.00	4.870	94.210	1913.71	12.23	-25.61	10.41	490592.71	604947.30	32°39'46.577"N	104°29'53.628"W	12.23	10.82	-198.72	
1946.00	9.010	98.300	1945.46	16.09	-26.07	14.24	490596.54	604946.84	32°39'46.572"N	104°29'53.583"W	13.02	12.94	12.78	
1977.00	13.090	99.240	1975.88	22.01	-26.98	20.11	490602.41	604945.92	32°39'46.564"N	104°29'53.514"W	13.17	13.16	3.03	
2040.00	21.910	92.020	2035.91	40.90	-28.54	38.94	490621.24	604944.36	32°39'46.548"N	104°29'53.294"W	14.39	14.00	-11.46	
2070.00	25.730	88.520	2063.36	52.98	-28.57	51.05	490633.35	604944.33	32°39'46.548"N	104°29'53.152"W	13.57	12.73	-11.67	
2101.00	27.930	86.930	2091.02	66.88	-28.01	65.03	490647.32	604944.89	32°39'46.554"N	104°29'52.988"W	7.46	7.10	-5.13	
2132.00	29.010	86.410	2118.27	81.53	-27.15	79.78	490662.07	604945.75	32°39'46.563"N	104°29'52.816"W	3.57	3.48	-1.68	
2163.00	31.190	86.620	2145.09	96.94	-26.21	95.30	490677.59	604946.69	32°39'46.572"N	104°29'52.635"W	7.04	7.03	0.68	
2194.00	34.530	86.920	2171.12	113.62	-25.26	112.09	490694.64	604947.64	32°39'46.582"N	104°29'52.438"W	10.79	10.77	0.97	
2225.00	37.360	87.770	2196.22	131.69	-24.42	130.27	490712.55	604948.48	32°39'46.591"N	104°29'52.228"W	9.27	9.13	2.74	
2256.00	39.380	88.710	2220.52	150.83	-23.84	149.50	490731.78	604949.07	32°39'46.597"N	104°29'52.001"W	6.78	6.52	3.03	
2287.00	41.230	89.840	2244.16	170.81	-23.59	169.55	490751.83	604949.32	32°39'46.599"N	104°29'51.766"W	6.42	5.97	3.65	
2317.00	42.740	89.810	2266.46	190.82	-23.53	189.61	490771.90	604949.38	32°39'46.600"N	104°29'51.531"W	5.03	5.03	-0.10	
2349.00	45.270	89.060	2289.47	212.97	-23.30	211.84	490794.12	604949.60	32°39'46.603"N	104°29'51.271"W	8.07	7.91	-2.34	
2380.00	48.560	87.850	2310.65	235.50	-22.69	234.47	490816.75	604950.22	32°39'46.609"N	104°29'51.007"W	10.99	10.61	-3.90	
2411.00	52.270	86.540	2330.40	259.21	-21.51	258.33	490840.60	604951.39	32°39'46.621"N	104°29'50.728"W	12.40	11.97	-4.23	



Actual Wellpath Report
Boyd X State COM No. 15H ST01awp 1914' - 7101' Proj: 7172'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EOG Resources, Inc.	Slot	Boyd X State Com No. 15H
Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
Facility	Boyd X State Com No. 15H	Sidetrack from	Boyd X State Com No. 15H AWB_awp at 1875.00 IMD

WELLPATH DATA (177 stations) † = Interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	US ft	US ft			°/100ft	°/100ft	°/100ft	
2442.00	55.840	86.580	2348.59	284.08	-20.00	283.38	490865.65	604954.90	32°39'46.637"N	104°29'50.435"W	11.52	11.52	0.13	
2474.00	57.760	86.880	2366.11	310.63	-18.48	310.11	490892.38	604954.42	32°39'46.652"N	104°29'50.122"W	6.05	6.00	0.94	
2479.63†	57.956	86.825	2369.11	315.36	-18.22	314.87	490897.14	604954.69	32°39'46.655"N	104°29'50.066"W	3.58	3.48	-0.98	330' HL FWL crossing: 2479.63'
2505.00	58.840	86.580	2382.40	336.79	-16.97	336.44	490918.71	604955.93	32°39'46.667"N	104°29'49.814"W	3.58	3.48	-0.97	
2536.00	58.710	86.550	2398.47	363.06	-15.38	362.90	490945.17	604957.62	32°39'46.684"N	104°29'49.505"W	0.43	-0.42	-0.10	
2567.00	60.680	86.040	2413.61	388.72	-13.71	388.75	490971.01	604959.19	32°39'46.700"N	104°29'49.202"W	6.73	6.57	-1.70	
2597.00	64.040	85.590	2427.99	415.89	-11.70	416.13	490998.39	604961.20	32°39'46.721"N	104°29'48.882"W	10.91	10.84	-1.45	
2628.00	66.950	85.560	2440.85	443.78	-9.53	444.25	491026.51	604963.37	32°39'46.743"N	104°29'48.553"W	9.39	9.39	-0.10	
2659.00	69.540	85.830	2452.34	472.26	-7.37	472.96	491055.22	604965.53	32°39'46.765"N	104°29'48.217"W	8.39	8.35	0.87	
2689.00	71.500	86.630	2462.34	500.27	-5.51	501.18	491083.43	604967.39	32°39'46.783"N	104°29'47.887"W	7.00	6.53	2.67	
2719.00	74.150	87.340	2471.20	528.71	-4.00	529.80	491112.05	604968.90	32°39'46.799"N	104°29'47.553"W	9.12	8.83	2.37	
2750.00	77.000	88.280	2478.92	558.54	-2.86	559.80	491142.05	604970.04	32°39'46.810"N	104°29'47.202"W	9.65	9.19	3.03	
2774.00	80.310	88.810	2483.64	581.96	-2.26	583.32	491165.56	604971.64	32°39'46.817"N	104°29'46.927"W	13.96	13.79	2.21	
2806.00	83.760	89.230	2488.07	613.52	-1.72	615.00	491197.24	604971.18	32°39'46.823"N	104°29'46.556"W	10.86	10.78	1.31	
2849.00	87.290	89.390	2491.43	646.23	-1.20	657.86	491240.10	604971.70	32°39'46.828"N	104°29'46.055"W	8.22	8.21	0.37	
2868.00	87.810	89.220	2492.24	675.14	-0.97	676.84	491259.08	604971.93	32°39'46.831"N	104°29'45.833"W	2.88	2.74	-0.89	
2930.00	89.880	88.100	2493.49	736.84	0.48	738.80	491321.04	604973.38	32°39'46.846"N	104°29'45.108"W	3.80	3.34	-1.81	
2992.00	91.540	87.620	2492.72	788.46	2.79	800.75	491382.98	604975.69	32°39'46.870"N	104°29'44.383"W	2.79	2.68	-0.77	
3054.00	91.730	87.130	2490.95	860.01	5.63	862.66	491444.89	604978.53	32°39'46.899"N	104°29'43.659"W	0.85	0.31	-0.79	
3116.00	88.300	86.040	2490.94	921.46	9.32	924.54	491506.76	604982.22	32°39'46.936"N	104°29'42.935"W	5.80	-5.53	-1.76	
3178.00	85.370	85.850	2494.36	982.72	13.70	986.29	491568.50	604986.60	32°39'46.981"N	104°29'42.213"W	4.74	-4.73	-0.31	
3239.00	85.770	85.800	2499.07	1042.90	18.13	1046.94	491629.15	604991.03	32°39'47.025"N	104°29'41.504"W	0.66	0.66	-0.08	
3301.00	86.370	86.080	2503.32	1104.12	22.51	1108.64	491690.84	604995.40	32°39'47.070"N	104°29'40.782"W	1.07	0.97	0.45	
3361.00	87.130	86.150	2506.72	1163.44	26.57	1168.41	491752.60	604999.46	32°39'47.111"N	104°29'40.083"W	1.27	1.27	0.12	
3423.00	85.310	85.640	2510.81	1224.66	30.99	1230.11	491812.30	605003.89	32°39'47.156"N	104°29'39.362"W	3.05	-2.94	-0.82	
3486.00	85.740	85.810	2515.73	1286.80	35.68	1292.74	491874.93	605008.57	32°39'47.203"N	104°29'38.629"W	0.73	0.68	0.27	
3548.00	86.080	85.900	2520.15	1347.99	40.15	1354.42	491936.60	605013.04	32°39'47.248"N	104°29'37.908"W	0.57	0.55	0.15	
3610.00	86.520	86.280	2524.15	1409.25	44.36	1416.15	491998.32	605017.26	32°39'47.291"N	104°29'37.186"W	0.94	0.71	0.61	
3673.00	86.820	86.370	2527.81	1471.56	48.40	1478.92	492061.08	605021.29	32°39'47.331"N	104°29'36.452"W	0.50	0.48	0.14	
3734.00	87.070	86.390	2531.06	1531.92	52.24	1539.71	492121.87	605025.14	32°39'47.370"N	104°29'35.740"W	0.41	0.41	0.03	



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REFERENCE WELLPATH IDENTIFICATION

Operator	EOG Resources, Inc.	Slot	Boyd X State Com No. 15H
Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
Facility	Boyd X State Com No. 15H	Sidetrack from	Boyd X State Com No. 15H AWB_awp at 1875.00 MD

WELLPATH DATA (177 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	US ft	US ft			°/100ft	°/100ft	°/100ft	
3795.00	87.500	86.730	2533.95	1592.32	55.90	1600.53	492182.68	605028.79	32°39'47.407"N	104°29'35.029"W	0.90	0.70	0.56	
3857.00	88.000	86.880	2536.38	1653.76	59.35	1662.38	492244.53	605032.24	32°39'47.443"N	104°29'34.306"W	0.84	0.81	0.24	
3919.00	88.270	87.160	2538.40	1715.25	62.57	1724.27	492306.41	605035.47	32°39'47.475"N	104°29'33.582"W	0.63	0.44	0.45	
3981.00	88.400	87.680	2540.20	1776.80	65.36	1786.18	492368.32	605038.26	32°39'47.504"N	104°29'32.858"W	0.86	0.21	0.84	
4043.00	88.240	88.850	2542.02	1838.45	67.24	1848.12	492430.26	605040.13	32°39'47.523"N	104°29'32.133"W	1.90	-0.26	1.89	
4106.00	89.170	89.590	2543.44	1901.20	68.09	1914.10	492495.23	605040.99	32°39'47.533"N	104°29'31.396"W	1.89	1.48	1.17	
4169.00	89.780	91.540	2544.02	1964.07	67.47	1974.09	492556.21	605040.37	32°39'47.528"N	104°29'30.660"W	3.24	0.97	3.10	
4230.00	90.180	93.150	2544.04	2025.04	64.98	2035.04	492617.15	605037.87	32°39'47.504"N	104°29'29.947"W	2.72	0.66	2.64	
4292.00	90.220	94.200	2543.83	2087.03	61.00	2096.91	492679.02	605033.90	32°39'47.465"N	104°29'29.223"W	1.69	0.06	1.69	
4353.00	88.950	94.850	2544.27	2148.03	56.19	2157.71	492739.82	605029.09	32°39'47.419"N	104°29'28.512"W	2.34	-2.08	1.07	
4414.00	88.310	95.920	2545.73	2208.99	50.47	2218.43	492800.53	605023.36	32°39'47.363"N	104°29'27.801"W	2.04	-1.05	1.75	
4477.00	87.600	96.690	2547.97	2271.91	43.55	2281.00	492863.10	605016.45	32°39'47.295"N	104°29'27.069"W	1.66	-1.13	1.22	
4537.00	87.040	97.530	2550.78	2331.76	36.14	2340.48	492922.57	605009.03	32°39'47.223"N	104°29'26.373"W	1.68	-0.93	1.40	
4600.00	87.010	97.930	2554.05	2394.55	27.67	2402.82	492984.90	605000.57	32°39'47.140"N	104°29'25.644"W	0.64	-0.05	0.63	
4661.00	87.260	98.110	2557.10	2455.34	19.17	2463.15	493045.23	604992.07	32°39'47.057"N	104°29'24.938"W	0.50	0.41	0.30	
4724.00	87.470	98.490	2559.99	2518.10	10.09	2525.42	493107.50	604982.99	32°39'46.968"N	104°29'24.210"W	0.69	0.33	0.60	
4785.00	88.210	98.770	2562.29	2578.87	0.94	2585.69	493167.76	604973.84	32°39'46.878"N	104°29'23.504"W	1.30	1.21	0.46	
4847.00	88.580	99.350	2566.03	2640.62	-8.82	2646.89	493228.95	604964.08	32°39'46.783"N	104°29'22.788"W	1.11	0.60	0.94	
4909.00	89.110	99.790	2566.28	2702.33	-19.12	2708.02	493290.07	604953.78	32°39'46.681"N	104°29'22.073"W	1.11	0.85	0.71	
4971.00	89.230	99.840	2566.18	2764.02	-29.69	2769.10	493351.15	604943.21	32°39'46.578"N	104°29'21.359"W	0.21	0.19	0.08	
5034.00	89.290	99.610	2566.99	2826.71	-40.33	2831.19	493413.24	604932.57	32°39'46.473"N	104°29'20.632"W	0.38	0.10	-0.37	
5096.00	88.000	98.940	2566.46	2888.45	-50.32	2892.36	493474.40	604922.58	32°39'46.375"N	104°29'19.916"W	2.34	-2.08	-1.08	
5157.00	88.030	99.100	2570.57	2949.19	-59.88	2952.57	493534.61	604913.03	32°39'46.282"N	104°29'19.212"W	0.27	0.05	0.26	
5219.00	87.840	98.510	2572.80	3010.94	-69.36	3013.80	493595.83	604903.54	32°39'46.189"N	104°29'18.496"W	1.00	-0.31	-0.95	
5279.00	87.840	98.460	2575.07	3070.73	-78.21	3073.10	493656.12	604894.70	32°39'46.102"N	104°29'17.802"W	0.08	0.00	-0.08	
5341.00	87.810	98.570	2577.42	3132.50	-87.38	3134.37	493716.39	604885.52	32°39'46.012"N	104°29'17.085"W	0.18	-0.05	0.18	
5416.00	87.070	98.490	2580.77	3207.21	-98.50	3208.47	493780.48	604874.41	32°39'45.903"N	104°29'16.218"W	0.99	-0.99	-0.11	
5478.00	86.860	98.680	2584.05	3268.93	-107.74	3266.69	493841.69	604865.17	32°39'45.813"N	104°29'15.502"W	0.46	-0.34	0.31	
5541.00	87.870	99.080	2586.95	3331.65	-117.45	3331.87	493913.87	604855.46	32°39'45.718"N	104°29'14.774"W	1.72	1.60	0.63	
5602.00	88.360	99.180	2588.95	3392.39	-127.13	3392.06	493974.06	604845.78	32°39'45.623"N	104°29'14.070"W	0.82	0.80	0.16	



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REFERENCE WELLPATH IDENTIFICATION

Operator	EOG Resources, Inc.	Slot	Boyd X State Com No. 15H
Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
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MD	Inclination	Pl	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft	ft			ft/100ft	ft/100ft	ft/100ft	
5662.00	89.780	99.080	2569.93	3452.15	-136.65	3451.29	494033.28	604836.27	32°39'45.529"N	104°29'13.377"W	2.37	2.37	-0.17		
5723.00	90.000	99.590	2560.05	3512.90	-146.54	3511.48	494093.47	604826.37	32°39'45.432"N	104°29'12.673"W	0.91	0.36	0.84		
5785.00	90.060	99.690	2590.01	3574.61	-156.92	3572.61	494154.59	604815.99	32°39'45.330"N	104°29'11.958"W	0.19	0.10	0.16		
5848.00	90.060	100.100	2589.95	3637.30	-167.75	3634.67	494216.64	604805.17	32°39'45.224"N	104°29'11.231"W	0.65	0.00	0.65		
5911.00	90.150	100.080	2589.83	3699.96	-178.79	3696.70	494278.66	604784.13	32°39'45.161"N	104°29'10.506"W	0.15	0.14	-0.03		
5973.00	88.610	99.220	2590.50	3761.66	-189.18	3757.81	494339.77	604783.74	32°39'45.014"N	104°29'09.791"W	2.84	-2.48	-1.39		
6035.00	88.640	99.580	2591.99	3823.39	-199.30	3818.96	494400.92	604773.62	32°39'44.915"N	104°29'09.075"W	0.58	0.05	0.58		
6097.00	88.060	97.790	2593.78	3885.16	-208.66	3880.22	494462.17	604764.26	32°39'44.823"N	104°29'08.359"W	3.03	-0.94	-2.89		
6158.00	88.090	98.080	2595.82	3945.99	-217.08	3940.61	494522.55	604755.84	32°39'44.741"N	104°29'07.652"W	0.48	0.05	0.48		
6251.00	88.490	98.060	2598.60	4038.73	-230.13	4032.64	494614.58	604742.79	32°39'44.613"N	104°29'06.575"W	0.43	0.43	-0.02		
6281.00	89.110	97.730	2599.23	4068.66	-234.25	4062.35	494644.29	604738.68	32°39'44.572"N	104°29'06.228"W	2.34	2.07	-1.10		
6343.00	89.070	96.970	2600.21	4130.56	-242.18	4123.83	494705.76	604730.75	32°39'44.495"N	104°29'05.508"W	1.23	-0.06	-1.23		
6405.00	89.010	96.940	2601.25	4192.47	-249.68	4185.37	494767.29	604723.24	32°39'44.421"N	104°29'04.788"W	0.11	-0.10	-0.05		
6468.00	89.170	97.140	2602.25	4255.39	-257.40	4247.89	494829.80	604715.52	32°39'44.346"N	104°29'04.057"W	0.41	0.25	0.32		
6530.00	89.290	97.550	2603.09	4317.28	-265.33	4309.37	494891.28	604707.60	32°39'44.268"N	104°29'03.336"W	0.69	0.19	0.66		
6591.00	89.410	97.810	2603.78	4378.16	-273.48	4369.82	494951.73	604699.44	32°39'44.189"N	104°29'02.631"W	0.47	0.20	0.43		
6654.00	86.300	97.460	2606.13	4440.99	-281.84	4432.21	495014.11	604691.08	32°39'44.107"N	104°29'01.901"W	4.97	-4.94	-0.56		
6716.00	86.990	97.380	2610.30	4502.75	-289.83	4493.55	495075.45	604683.09	32°39'44.028"N	104°29'01.183"W	0.52	-0.50	-0.13		
6777.00	86.020	97.750	2614.55	4563.49	-297.84	4553.87	495135.77	604675.08	32°39'43.950"N	104°29'00.477"W	0.61	0.05	0.61		
6840.00	86.050	97.900	2618.91	4626.21	-306.40	4616.14	495198.02	604666.53	32°39'43.866"N	104°28'59.748"W	0.24	0.05	0.24		
6900.00	86.080	98.200	2623.03	4686.93	-314.78	4675.41	495257.29	604658.15	32°39'43.784"N	104°28'59.055"W	0.50	0.05	0.50		
6963.00	86.730	98.220	2626.98	4748.65	-323.76	4737.64	495319.51	604649.17	32°39'43.696"N	104°28'58.327"W	1.03	1.03	0.03		
7023.00	86.820	98.530	2630.35	4808.39	-332.49	4796.90	495378.77	604640.44	32°39'43.611"N	104°28'57.634"W	0.54	0.15	0.52		
7085.00	86.850	98.890	2633.78	4870.10	-341.86	4858.10	495439.96	604631.07	32°39'43.519"N	104°28'56.931"W	0.58	0.05	0.58		
7101.00	86.860	99.020	2634.65	4886.02	-344.35	4873.88	495455.74	604621.58	32°39'43.454"N	104°28'56.733"W	0.81	0.06	0.81		
7148.19†	86.860	99.020	2637.24	4932.97	-351.74	4920.41	495502.27	604621.20	32°39'43.422"N	104°28'56.188"W	0.00	0.00	0.00	0.00330' HL FEL crossing: 7148.19'	
7172.00	86.860	99.020	2638.54	4956.66	-355.46	4943.89	495525.75	604617.47	32°39'43.385"N	104°28'55.914"W	0.00	0.00	0.00	0.00330' HL FEL crossing: 7172'	



Actual Wellpath Report
Boyd X State COM No. 15H ST01awp 1914' - 7101' Proj: 7172'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EOG Resources, Inc.	Slot	Boyd X State Com No. 15H
Area	Eddy County, NM	Well	Boyd X State COM No. 15H ST01
Field	Wildcat (Eddy Co., NM) NAD 83	Wellbore	Boyd X State COM No. 15H ST01 AWB
Facility	Boyd X State Com No. 15H	Sidetrack from	Boyd X State Com No. 15H AWB_awp at 1875.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Boyd X State Com No. 15H Target 1 rev 2	2532.36	66.92	1776.79	492358.93	605039.81	32°39'47.519"N	104°29'32.968"W	point
Boyd X State Com No. 15H PBHL rev 5	2651.08	-354.83	4920.34	495502.20	604618.10	32°39'43.391"N	104°28'56.190"W	point
Boyd X State Com No. 15H PBHL rev 4	2652.35	-354.83	4920.34	495502.20	604618.10	32°39'43.391"N	104°28'56.190"W	point

WELLPATH COMPOSITION - Ref Wellbore: Boyd X State COM No. 15H ST01 AWB Ref Wellpath: Boyd X State COM No. 15H ST01awp 1914' - 7101' Proj: 7172'

Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore
14.50	1875.00	SDI Keeper v1.04	Imported SDI Keeper Gyro surveys from 100' - 4736'	Boyd X State Com No. 15H AWB
1875.00	7101.00	BH1 NavTrak (Standard)	8 3/4 BH1 MWDP 1914' - 7101'	Boyd X State COM No. 15H ST01 AWB
7101.00	7172.00	Blind Drilling (std)	Projection to bit	Boyd X State COM No. 15H ST01 AWB