

EXTRACTION OIL & GAS

Location: COLORADO Slot: SLOT#14 WINDSOR LV2 7 (740'FSL&286'FEL,SEC.14)
Field: WELD COUNTY (NAD83/TRUE NORTH) Well: WINDSOR LV2 7
Facility: SEC.14-T06N-R67W Wellbore: WINDSOR LV2 7 PWB

Plot reference wellpath is WINDSOR LV2 7 (REV-A.0) PWP

True vertical depths are referenced to CYCLONE 37 (28KB) (RKB)

Measured depths are referenced to CYCLONE 37 (28KB) (RKB)

CYCLONE 37 (28KB) (RKB) to Mean Sea Level: 4838 feet

Mean Sea Level to Mud line (At Slot: SLOT#14 WINDSOR LV2 7 (740'FSL&286'FEL,SEC.14)): 0 feet

Coordinates are in feet referenced to Slot

Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet

* = Wellpath was transformed from a different geodetic datum

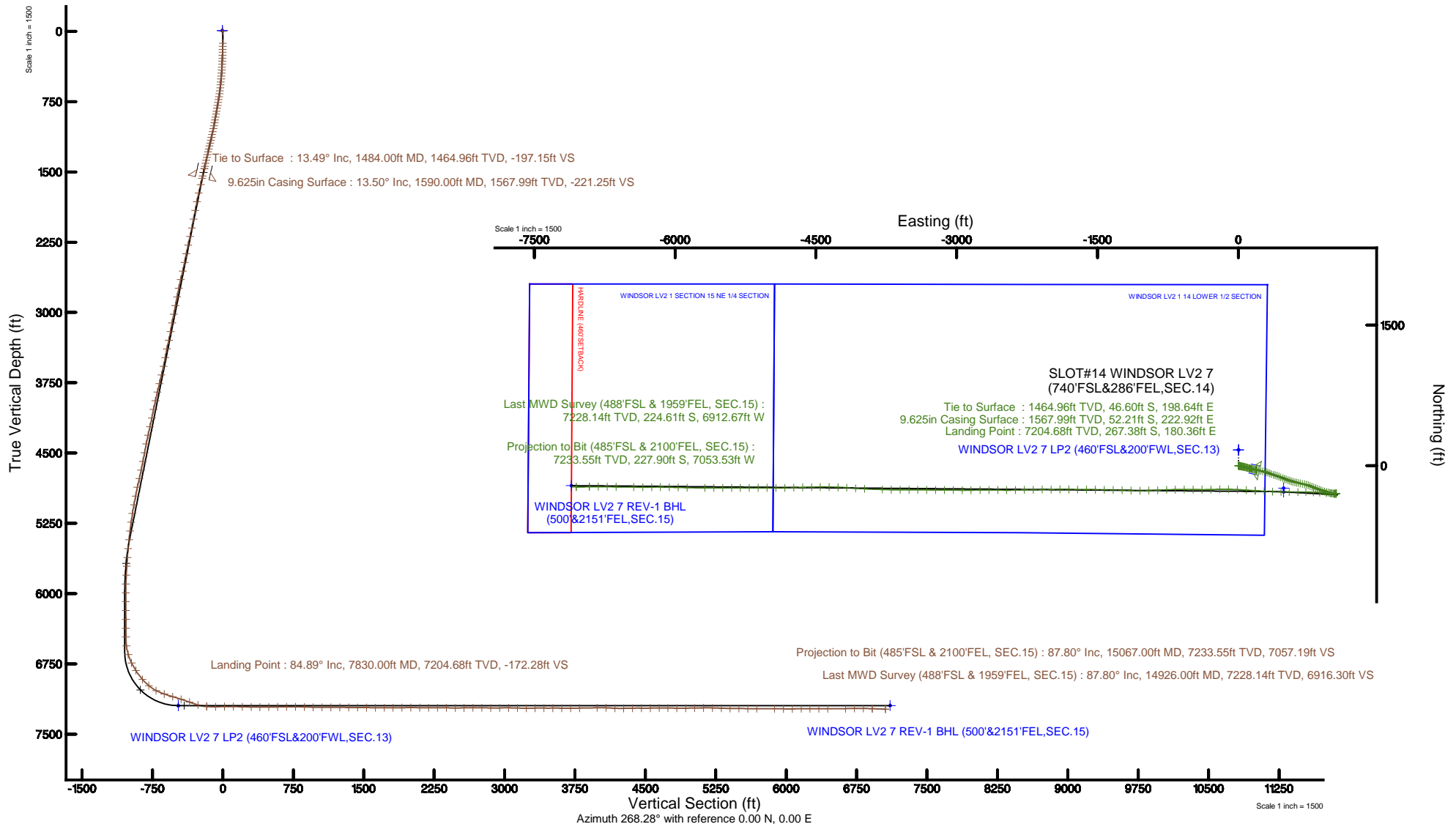
North Reference: True north

Scale: True distance

Depths are in feet

Created by: ingmjmr on 2017-05-25

Database: WA_DEN_Denver_Defn





Actual Wellpath Report

WINDSOR LV2 7 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#14 WINDSOR LV2 7 (740'FSL&286'FEL,SEC.14)
Area	COLORADO	Well	WINDSOR LV2 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWB
Facility	SEC.14-T06N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Ingmjmr
Scale	0.999965	Report Generated	5/25/2017 at 2:06:44 PM
Convergence at slot	0.42° East	Database/Source file	WA_DEN_Denver_Defn/WINDSOR_LV2_7_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-3389.27	-60.35	3180125.86	1418962.07	40°28'53.929"N	104°51'08.881"W
Facility Reference Pt			3180161.45	1422351.56	40°29'27.420"N	104°51'08.100"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

WELLPATH DATUM

Calculation method	Minimum curvature	CYCLONE 37 (28'KB) (RKB) to Facility Vertical Datum	4838.00ft
Horizontal Reference Pt	Slot	CYCLONE 37 (28'KB) (RKB) to Mean Sea Level	4838.00ft
Vertical Reference Pt	CYCLONE 37 (28'KB) (RKB)	CYCLONE 37 (28'KB) (RKB) to Mud Line at Slot (SLOT#14 WINDSOR LV2 7 (740'FSL&286'FEL,SEC.14))	4838.00ft
MD Reference Pt	CYCLONE 37 (28'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	268.28°



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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWP
Facility	SEC.14-T06N-R67W		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
1484.00	13.490	103.340	1464.96	-197.15	-46.60	198.64	0.88	Tie to Surface
1564.00	13.700	102.920	1542.72	-215.33	-50.87	216.95	0.29	
1659.00	12.990	100.320	1635.16	-236.66	-55.30	238.42	0.98	
1753.00	12.420	99.130	1726.86	-256.92	-58.80	258.79	0.67	
1848.00	11.710	98.560	1819.76	-276.44	-61.86	278.41	0.76	
1942.00	12.110	112.840	1911.75	-294.80	-67.10	296.94	3.16	
2037.00	12.110	112.920	2004.64	-312.92	-74.85	315.30	0.02	
2132.00	11.490	110.720	2097.63	-330.72	-82.08	333.33	0.81	
2226.00	13.790	109.750	2189.35	-349.80	-89.18	352.63	2.46	
2321.00	13.080	108.250	2281.75	-370.44	-96.37	373.50	0.83	
2415.00	12.200	107.640	2373.47	-389.81	-102.71	393.06	0.95	
2509.00	11.400	105.960	2465.48	-408.04	-108.28	411.46	0.93	
2604.00	14.410	114.330	2558.08	-427.61	-115.73	431.27	3.72	
2698.00	14.410	113.230	2649.12	-448.72	-125.16	452.67	0.29	
2793.00	12.990	111.560	2741.42	-469.25	-133.75	473.47	1.55	
2887.00	11.890	109.220	2833.21	-488.00	-140.82	492.44	1.29	
2982.00	11.090	109.220	2926.31	-505.67	-147.05	510.30	0.84	
3076.00	12.110	111.560	3018.39	-523.17	-153.65	528.01	1.19	
3171.00	11.890	111.730	3111.31	-541.31	-160.94	546.37	0.23	
3265.00	10.210	110.940	3203.56	-557.88	-167.50	563.15	1.79	
3360.00	12.990	103.050	3296.62	-575.98	-172.92	581.42	3.36	
3454.00	12.280	101.250	3388.34	-595.94	-177.26	601.51	0.86	
3549.00	10.300	100.060	3481.50	-614.10	-180.71	619.79	2.10	
3643.00	12.810	102.520	3573.59	-632.43	-184.44	638.24	2.72	
3738.00	13.920	102.130	3666.01	-653.73	-189.12	659.69	1.17	
3833.00	13.920	101.250	3758.22	-675.96	-193.75	682.07	0.22	
3927.00	13.700	101.950	3849.51	-697.80	-198.26	704.05	0.29	
4022.00	12.200	101.030	3942.09	-718.52	-202.51	724.91	1.59	
4117.00	13.520	111.560	4034.72	-738.52	-208.52	745.09	2.83	
4211.00	11.890	111.650	4126.41	-757.50	-216.13	764.31	1.73	



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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWP
Facility	SEC.14-T06N-R67W		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4306.00	13.920	111.430	4219.01	-776.99	-223.91	784.05	2.14	
4400.00	12.990	110.720	4310.43	-797.16	-231.78	804.46	1.00	
4495.00	11.890	110.060	4403.19	-816.11	-238.92	823.64	1.17	
4590.00	11.800	114.420	4496.17	-833.92	-246.29	841.67	0.95	
4685.00	12.900	114.330	4588.97	-852.17	-254.68	860.18	1.16	
4780.00	11.710	114.420	4681.79	-870.35	-263.03	878.62	1.25	
4874.00	14.100	107.330	4773.41	-889.75	-270.39	898.24	3.05	
4968.00	13.210	106.750	4864.76	-910.76	-276.89	919.46	0.96	
5064.00	11.000	106.750	4958.62	-929.85	-282.69	938.74	2.30	
5159.00	11.090	99.920	5051.86	-947.40	-286.88	956.41	1.38	
5253.00	8.480	97.940	5144.48	-963.09	-289.39	972.19	2.80	
5348.00	8.400	100.630	5238.46	-976.77	-291.64	985.94	0.42	
5442.00	6.720	99.350	5331.64	-988.88	-293.80	998.12	1.80	
5537.00	7.110	107.020	5425.95	-999.90	-296.43	1009.23	1.05	
5632.00	5.300	95.340	5520.39	-1009.82	-298.56	1019.22	2.31	
5726.00	4.200	90.630	5614.07	-1017.57	-299.00	1026.98	1.24	
5820.00	3.490	80.140	5707.86	-1023.84	-298.55	1033.24	1.06	
5915.00	2.610	72.430	5802.72	-1028.79	-297.40	1038.16	1.02	
6009.00	2.610	74.450	5896.62	-1032.92	-296.18	1042.26	0.10	
6104.00	0.710	227.230	5991.60	-1034.58	-296.00	1043.91	3.43	
6198.00	0.620	228.950	6085.59	-1033.75	-296.73	1043.10	0.10	
6293.00	0.310	244.020	6180.59	-1033.12	-297.18	1042.48	0.35	
6387.00	0.220	246.620	6274.58	-1032.72	-297.36	1042.09	0.10	
6482.00	0.310	15.760	6369.58	-1032.62	-297.19	1041.99	0.51	
6576.00	0.220	20.730	6463.58	-1032.77	-296.77	1042.12	0.10	
6671.00	6.320	260.020	6558.39	-1027.66	-297.51	1037.03	6.77	
6766.00	17.590	271.430	6651.19	-1008.09	-298.06	1017.47	12.06	
6861.00	25.980	274.250	6739.33	-972.99	-296.15	982.30	8.90	
6955.00	33.010	276.550	6821.10	-927.12	-291.70	936.27	7.57	
7074.00	40.790	272.930	6916.20	-856.18	-286.01	865.13	6.79	



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Area	COLORADO	Well	WINDSOR LV2 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWP
Facility	SEC.14-T06N-R67W		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
7168.00	50.200	271.430	6982.02	-789.37	-283.53	798.22	10.07	
7263.00	62.000	270.330	7034.91	-710.74	-282.38	719.51	12.46	
7357.00	71.590	270.640	7071.91	-624.51	-281.64	633.22	10.21	
7452.00	73.710	271.040	7100.24	-533.93	-280.31	542.56	2.27	
7545.00	71.810	271.260	7127.80	-445.22	-278.52	453.76	2.06	
7640.00	70.480	271.740	7158.50	-355.46	-276.17	363.89	1.48	
7735.00	74.110	272.450	7187.39	-265.18	-272.86	273.47	3.89	
7830.00	84.890	274.250	7204.68	-172.28	-267.38	180.36	11.50	Landing Point
7925.00	90.990	273.460	7208.09	-77.83	-261.00	85.68	6.47	
8020.00	91.780	273.330	7205.79	16.76	-255.38	-9.12	0.84	
8115.00	88.690	270.020	7205.40	111.57	-252.60	-104.06	4.77	
8209.00	88.380	269.630	7207.81	205.51	-252.89	-198.02	0.53	
8304.00	88.380	268.350	7210.49	300.46	-254.57	-292.97	1.35	
8398.00	90.190	270.160	7211.67	394.43	-255.79	-386.95	2.72	
8493.00	90.810	270.420	7210.84	489.37	-255.31	-481.94	0.71	
8588.00	90.900	269.760	7209.42	584.31	-255.16	-576.93	0.70	
8682.00	90.720	269.760	7208.09	678.27	-255.55	-670.92	0.19	
8776.00	89.090	267.820	7208.25	772.26	-257.54	-764.89	2.70	
8871.00	88.510	267.560	7210.23	867.23	-261.36	-859.79	0.67	
8965.00	88.600	267.730	7212.61	961.20	-265.22	-953.68	0.20	
9060.00	89.700	270.730	7214.01	1056.16	-266.50	-1048.65	3.36	
9155.00	90.010	271.430	7214.26	1151.05	-264.71	-1143.63	0.81	
9250.00	89.880	271.650	7214.35	1245.89	-262.16	-1238.60	0.27	
9345.00	89.620	271.830	7214.76	1340.72	-259.27	-1333.55	0.33	
9440.00	89.220	270.860	7215.72	1435.58	-257.04	-1428.52	1.10	
9534.00	89.480	270.730	7216.79	1529.48	-255.74	-1522.51	0.31	
9629.00	89.790	270.640	7217.39	1624.40	-254.60	-1617.50	0.34	
9723.00	89.880	270.420	7217.67	1718.32	-253.73	-1711.49	0.25	
9817.00	90.100	270.160	7217.68	1812.27	-253.26	-1805.49	0.36	
9912.00	90.410	270.020	7217.26	1907.22	-253.11	-1900.49	0.36	



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Area	COLORADO	Well	WINDSOR LV2 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWP
Facility	SEC.14-T06N-R67W		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
10007.00	90.010	269.050	7216.91	2002.19	-253.88	-1995.49	1.10	
10102.00	89.620	269.140	7217.22	2097.18	-255.38	-2090.47	0.42	
10196.00	90.100	269.630	7217.45	2191.16	-256.39	-2184.47	0.73	
10291.00	89.790	269.230	7217.54	2286.14	-257.33	-2279.46	0.53	
10385.00	88.510	267.820	7218.93	2380.13	-259.75	-2373.42	2.03	
10480.00	90.280	270.550	7219.94	2475.10	-261.10	-2468.39	3.42	
10574.00	90.500	270.550	7219.30	2569.02	-260.20	-2562.38	0.23	
10669.00	90.100	270.240	7218.80	2663.96	-259.55	-2657.38	0.53	
10764.00	89.700	269.450	7218.96	2758.92	-259.80	-2752.38	0.93	
10859.00	88.820	268.350	7220.19	2853.91	-261.63	-2847.35	1.48	
10953.00	91.380	271.740	7220.03	2947.84	-261.55	-2941.33	4.52	
11048.00	89.480	270.160	7219.31	3042.73	-259.98	-3036.30	2.60	
11142.00	87.980	269.320	7221.40	3136.67	-260.40	-3130.28	1.83	
11237.00	90.280	271.430	7222.84	3231.58	-259.78	-3225.25	3.29	
11331.00	90.900	270.730	7221.87	3325.47	-258.01	-3319.23	0.99	
11426.00	89.220	269.540	7221.77	3420.41	-257.79	-3414.22	2.17	
11520.00	90.900	270.860	7221.67	3514.35	-257.46	-3508.22	2.27	
11615.00	88.110	269.850	7222.49	3609.28	-256.87	-3603.20	3.12	
11710.00	91.210	271.350	7223.06	3704.18	-255.88	-3698.18	3.62	
11804.00	90.100	271.130	7221.98	3798.05	-253.84	-3792.15	1.20	
11994.00	92.400	273.240	7217.84	3987.54	-246.60	-3981.94	1.64	
12088.00	86.300	273.330	7218.90	4081.13	-241.22	-4075.74	6.49	
12183.00	87.800	273.950	7223.79	4175.59	-235.19	-4170.42	1.71	
12277.00	91.300	271.650	7224.53	4269.28	-230.60	-4264.28	4.46	
12372.00	91.120	271.260	7222.53	4364.11	-228.19	-4359.23	0.45	
12466.00	89.310	269.050	7222.17	4458.05	-227.94	-4453.22	3.04	
12560.00	90.990	269.450	7221.93	4552.03	-229.17	-4547.21	1.84	
12655.00	89.880	268.350	7221.21	4647.02	-230.99	-4642.18	1.64	
12749.00	89.790	267.340	7221.48	4741.02	-234.53	-4736.12	1.08	
12844.00	89.000	269.850	7222.48	4836.00	-236.86	-4831.07	2.77	



Actual Wellpath Report

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Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWP
Facility	SEC.14-T06N-R67W		

WELLPATH DATA (141 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
12939.00	90.900	270.550	7222.56	4930.94	-236.52	-4926.07	2.13	
13033.00	90.810	270.160	7221.16	5024.87	-235.94	-5020.06	0.43	
13128.00	91.300	269.850	7219.41	5119.81	-235.93	-5115.04	0.61	
13222.00	88.110	269.450	7219.90	5213.77	-236.51	-5209.02	3.42	
13317.00	88.200	269.140	7222.95	5308.71	-237.68	-5303.97	0.34	
13411.00	89.090	270.860	7225.18	5402.63	-237.68	-5397.94	2.06	
13506.00	89.480	270.420	7226.36	5497.55	-236.62	-5492.92	0.62	
13601.00	89.400	270.160	7227.29	5592.48	-236.13	-5587.92	0.29	
13696.00	90.100	269.540	7227.71	5687.44	-236.38	-5682.92	0.98	
13884.00	89.790	271.830	7227.89	5875.27	-234.14	-5870.89	1.23	
13979.00	88.600	270.860	7229.22	5970.12	-231.91	-5965.85	1.62	
14074.00	90.810	271.740	7229.71	6064.98	-229.75	-6060.82	2.50	
14169.00	90.590	270.420	7228.55	6159.86	-227.96	-6155.79	1.41	
14263.00	89.090	268.660	7228.81	6253.83	-228.71	-6249.78	2.46	
14358.00	90.810	270.950	7228.89	6348.78	-229.04	-6344.77	3.01	
14453.00	89.880	270.160	7228.32	6443.71	-228.12	-6439.76	1.28	
14642.00	90.810	271.260	7227.18	6632.53	-225.78	-6628.74	0.76	
14737.00	90.720	270.730	7225.92	6727.41	-224.13	-6723.72	0.57	
14831.00	89.400	270.020	7225.82	6821.35	-223.51	-6817.71	1.59	
14926.00	87.800	268.660	7228.14	6916.30	-224.61	-6912.67	2.21	Last MWD Survey (488'FSL & 1959'FEL, SEC.15)
15067.00	87.800	268.660	7233.55	7057.19	-227.90	-7053.53	0.00	Projection to Bit (485'FSL & 2100'FEL, SEC.15)

HOLE & CASING SECTIONS - Ref Wellbore: WINDSOR LV2 7 AWP Ref Wellpath: WINDSOR LV2 7 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing Surface	28.00	1590.00	1562.00	28.00	1567.99	-0.01	0.06	-52.21	222.92
8.5in Open Hole	1590.00	15067.00	13477.00	1567.99	7233.55	-52.21	222.92	-227.90	-7053.53



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Area	COLORADO	Well	WINDSOR LV2 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWB
Facility	SEC.14-T06N-R67W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WINDSOR LV2 1 14 LOWER 1/2 SECTION	-7.00	168.29	1.62	3180126.25	1419130.36	40°28'55.592"N	104°51'08.860"W	polygon
WINDSOR LV2 1 SECTION 15 NE 1/4 SECTION	-7.00	168.29	1.62	3180126.25	1419130.36	40°28'55.592"N	104°51'08.860"W	polygon
WINDSOR LV2 7 LP (500'FSL&200'FWL,SEC.13)	7195.00	-239.74	482.89	3180610.47	1418725.87	40°28'51.560"N	104°51'02.632"W	point
WINDSOR LV2 7 LP2 (460'FSL&200'FWL,SEC.13)	7195.00	-279.74	482.89	3180610.76	1418685.87	40°28'51.165"N	104°51'02.632"W	point
WINDSOR LV2 7 REV-1 BHL (500'&2151'FEL,SEC.15)	7195.00	-212.81	-7104.68	3173023.19	1418697.39	40°28'51.816"N	104°52'40.822"W	point
WINDSOR LV2 1 HARDLINE (460'SETBACK)	7493.00	168.29	1.62	3180126.25	1419130.36	40°28'55.592"N	104°51'08.860"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: WINDSOR LV2 7 AWB Ref Wellpath: WINDSOR LV2 7 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1484.00	ISCWSA MWD, Rev. 4 (Standard)	Surface Survey <129'-1484'>	WINDSOR LV2 7 AWB
1484.00	14926.00	ISCWSA MWD, Rev. 4 (Standard)	3rd Party Intermediate 8.5" Hole <1564'-14926'>	WINDSOR LV2 7 AWB
14926.00	15067.00	Blind Drilling (std)	Projection to bit	WINDSOR LV2 7 AWB



Actual Wellpath Report

WINDSOR LV2 7 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#14 WINDSOR LV2 7 (740'FSL&286'FEL,SEC.14)
Area	COLORADO	Well	WINDSOR LV2 7
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	WINDSOR LV2 7 AWB
Facility	SEC.14-T06N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1484.00	13.490	103.340	1464.96	Tie to Surface
7830.00	84.890	274.250	7204.68	Landing Point
14926.00	87.800	268.660	7228.14	Last MWD Survey (488'FSL & 1959'FEL, SEC.15)
15067.00	87.800	268.660	7233.55	Projection to Bit (485'FSL & 2100'FEL, SEC.15)