

Actual Wellpath Report

ECHEVERRIA 2D-2H-D267 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#02 ECHEVERRIA 2D-2H-D267 (898'FNL & 589'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2D-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2D-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Adamkat
Scale	0.999958	Report Generated	5/10/2019 at 8:32:59 AM
Convergence at slot	0.42° East	Database/Source file	Denver/ECHEVERRIA_2D-2H-D267_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.30	9.78	3177485.29	1306149.51	40°10'19.312"N	104°51'53.510"W
Facility Reference Pt			3177475.51	1306149.74	40°10'19.315"N	104°51'53.636"W
Field Reference Pt			3124921.48	1267514.84	40°04'00.678"N	105°03'13.165"W

WELLPATH DATUM			
Calculation method	Minimum curvature	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB) to Facility Vertical Datum	4910.00ft
Horizontal Reference Pt	Slot	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB) to Mean Sea Level	4910.00ft
Vertical Reference Pt	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB)	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB) to Ground Level at Slot (SLOT#02 ECHEVERRIA 2D-2H-D267 (898'FNL & 589'FWL SEC.2))	4910.00ft
MD Reference Pt	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	186.71°

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Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#02 ECHEVERRIA 2D-2H-D267 (898'FNL & 589'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2D-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2D-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
0.00	0.000	341.540	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
147.00	0.700	341.540	147.00	-0.81	0.85	-0.28	0.48	0.48	-12.56	
239.00	1.940	1.230	238.97	-2.87	2.94	-0.43	1.42	1.35	21.40	
330.00	2.380	1.580	329.91	-6.29	6.37	-0.34	0.48	0.48	0.38	
436.00	4.050	344.530	435.74	-11.95	12.18	-1.28	1.80	1.58	-16.08	
526.00	5.720	343.480	525.41	-19.01	19.54	-3.40	1.86	1.86	-1.17	
615.00	7.390	337.680	613.82	-28.09	29.09	-6.84	2.02	1.88	-6.52	
697.00	8.890	337.940	694.99	-38.26	39.84	-11.22	1.83	1.83	0.32	
779.00	9.150	335.740	775.98	-49.40	51.66	-16.28	0.53	0.32	-2.68	
869.00	10.470	339.520	864.66	-62.81	65.84	-22.08	1.63	1.47	4.20	
939.00	10.300	341.040	933.52	-74.11	77.72	-26.34	0.46	-0.24	2.17	
1028.00	11.860	345.000	1020.86	-89.78	94.08	-31.29	1.95	1.75	4.45	
1117.00	15.440	346.140	1107.33	-109.37	114.42	-36.50	4.03	4.02	1.28	
1207.00	17.360	344.010	1193.66	-132.98	138.96	-43.07	2.24	2.13	-2.37	
1297.00	16.620	346.880	1279.74	-157.47	164.41	-49.69	1.24	-0.82	3.19	
1384.00	15.370	348.540	1363.37	-180.13	187.83	-54.81	1.53	-1.44	1.91	
1474.00	14.230	345.980	1450.38	-201.81	210.25	-59.86	1.46	-1.27	-2.84	
1564.00	11.550	344.040	1538.11	-220.47	229.65	-65.01	3.02	-2.98	-2.16	
1654.00	9.990	338.890	1626.52	-235.69	245.59	-70.30	2.03	-1.73	-5.72	
1740.00	10.080	335.930	1711.20	-248.76	259.42	-76.06	0.61	0.10	-3.44	
1830.00	9.670	341.120	1799.87	-262.34	273.77	-81.72	1.09	-0.46	5.77	
1920.00	9.220	342.980	1888.65	-275.76	287.81	-86.27	0.60	-0.50	2.07	
2010.00	9.860	344.320	1977.41	-289.48	302.13	-90.47	0.75	0.71	1.49	
2098.00	11.570	345.050	2063.87	-304.65	317.91	-94.78	1.95	1.94	0.83	
2188.00	11.630	345.250	2152.03	-321.48	335.40	-99.42	0.08	0.07	0.22	
2267.00	10.550	345.230	2229.56	-335.63	350.10	-103.29	1.37	-1.37	-0.03	TIED INTO 3RD PARTY SURFACE SURVEYS
2406.00	10.280	345.750	2366.27	-359.05	374.42	-109.59	0.21	-0.19	0.37	FIRST BHGE MWD SURVEY
2495.00	10.320	347.300	2453.83	-373.98	389.90	-113.29	0.31	0.04	1.74	
2584.00	10.310	349.920	2541.39	-389.13	405.51	-116.44	0.53	-0.01	2.94	
2673.00	11.730	349.530	2628.75	-405.40	422.25	-119.48	1.60	1.60	-0.44	
2763.00	11.710	342.660	2716.88	-422.48	439.97	-123.86	1.55	-0.02	-7.63	
2852.00	11.650	338.510	2804.04	-438.64	456.95	-129.85	0.95	-0.07	-4.66	
2941.00	11.630	337.700	2891.21	-454.41	473.61	-136.54	0.18	-0.02	-0.91	
3030.00	11.130	345.920	2978.46	-470.29	490.25	-142.04	1.91	-0.56	9.24	
3119.00	11.650	348.580	3065.71	-486.86	507.39	-145.91	0.83	0.58	2.99	
3208.00	11.560	346.000	3152.89	-503.74	524.85	-149.84	0.59	-0.10	-2.90	
3297.00	11.230	347.600	3240.14	-520.27	541.96	-153.86	0.51	-0.37	1.80	
3386.00	11.640	352.220	3327.37	-537.15	559.32	-156.94	1.13	0.46	5.19	
3475.00	11.590	343.240	3414.56	-554.04	576.78	-160.73	2.03	-0.06	-10.09	
3564.00	11.220	341.230	3501.80	-570.06	593.54	-166.10	0.61	-0.42	-2.26	
3653.00	10.780	341.090	3589.16	-585.38	609.61	-171.58	0.50	-0.49	-0.16	
3742.00	11.750	339.040	3676.45	-600.91	625.95	-177.52	1.18	1.09	-2.30	
3831.00	11.680	334.560	3763.60	-616.57	642.55	-184.63	1.02	-0.08	-5.03	
3921.00	11.780	331.810	3851.72	-631.81	658.87	-192.88	0.63	0.11	-3.06	
4010.00	11.740	327.930	3938.85	-646.32	674.55	-201.98	0.89	-0.04	-4.36	

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Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2D-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
4099.00	11.750	329.220	4025.99	-660.57	690.01	-211.43	0.30	0.01	1.45	
4188.00	11.560	336.890	4113.16	-675.50	706.00	-219.57	1.75	-0.21	8.62	
4277.00	11.350	351.390	4200.40	-691.69	722.86	-224.38	3.24	-0.24	16.29	
4366.00	12.080	356.480	4287.55	-709.30	740.82	-226.26	1.42	0.82	5.72	
4455.00	12.230	349.890	4374.56	-727.49	759.39	-228.49	1.57	0.17	-7.40	
4544.00	12.140	343.630	4461.56	-745.12	777.65	-232.78	1.49	-0.10	-7.03	
4633.00	12.200	339.230	4548.56	-762.07	795.43	-238.75	1.04	0.07	-4.94	
4722.00	12.010	336.350	4635.58	-778.40	812.70	-245.80	0.71	-0.21	-3.24	
4811.00	12.150	340.530	4722.61	-794.80	830.01	-252.64	1.00	0.16	4.70	
4901.00	12.070	341.780	4810.61	-811.83	847.88	-258.74	0.30	-0.09	1.39	
4990.00	12.120	341.090	4897.64	-828.69	865.56	-264.68	0.17	0.06	-0.78	
5079.00	11.940	337.970	4984.68	-845.19	882.93	-271.16	0.76	-0.20	-3.51	
5168.00	11.940	338.290	5071.76	-861.36	900.02	-278.02	0.07	0.00	0.36	
5257.00	12.020	341.870	5158.82	-877.87	917.38	-284.30	0.84	0.09	4.02	
5346.00	12.050	347.780	5245.87	-895.07	935.27	-289.16	1.38	0.03	6.64	
5435.00	12.040	348.420	5332.91	-912.67	953.44	-292.98	0.15	-0.01	0.72	
5524.00	10.970	347.560	5420.12	-929.48	970.81	-296.67	1.22	-1.20	-0.97	
5613.00	11.420	350.290	5507.42	-945.93	987.76	-299.98	0.78	0.51	3.07	
5702.00	11.330	344.860	5594.68	-962.50	1004.88	-303.75	1.21	-0.10	-6.10	
5792.00	11.320	338.860	5682.93	-978.51	1021.66	-309.25	1.31	-0.01	-6.67	
5881.00	11.130	339.400	5770.23	-993.87	1037.85	-315.42	0.24	-0.21	0.61	
5970.00	11.320	340.330	5857.52	-1009.33	1054.11	-321.38	0.29	0.21	1.04	
6059.00	11.310	337.880	5944.79	-1024.80	1070.42	-327.61	0.54	-0.01	-2.75	
6148.00	11.710	336.510	6032.01	-1040.25	1086.79	-334.49	0.54	0.45	-1.54	
6237.00	11.870	338.640	6119.13	-1056.13	1103.60	-341.43	0.52	0.18	2.39	
6326.00	11.720	338.840	6206.25	-1072.20	1120.55	-348.03	0.17	-0.17	0.22	
6415.00	11.750	338.730	6293.39	-1088.19	1137.43	-354.58	0.04	0.03	-0.12	
6505.00	9.470	312.090	6381.90	-1100.58	1150.94	-363.40	5.94	-2.53	-29.60	
6594.00	6.040	223.630	6470.32	-1101.08	1152.46	-372.09	12.45	-3.85	-99.39	
6683.00	6.420	194.070	6558.82	-1092.40	1144.24	-376.53	3.59	0.43	-33.21	
6772.00	13.390	181.080	6646.44	-1077.19	1129.09	-377.94	8.18	7.83	-14.60	
6861.00	20.060	173.460	6731.64	-1052.04	1103.59	-376.39	7.87	7.49	-8.56	
6950.00	23.650	181.060	6814.25	-1019.40	1070.56	-374.98	5.13	4.03	8.54	
7039.00	32.410	189.500	6892.76	-977.72	1029.10	-379.26	10.78	9.84	9.48	
7128.00	43.260	187.250	6962.95	-923.23	975.16	-387.07	12.29	12.19	-2.53	
7217.00	51.390	185.100	7023.23	-857.87	910.15	-394.02	9.30	9.13	-2.42	
7306.00	55.660	187.260	7076.13	-786.33	839.03	-401.76	5.18	4.80	2.43	
7395.00	62.800	191.400	7121.65	-710.01	763.66	-414.25	8.96	8.02	4.65	
7484.00	69.680	193.440	7157.49	-629.02	684.17	-431.79	8.01	7.73	2.29	
7573.00	76.110	194.410	7183.65	-544.68	601.66	-452.26	7.30	7.22	1.09	
7662.00	83.770	194.620	7199.19	-457.92	516.89	-474.21	8.61	8.61	0.24	
7752.00	89.850	193.430	7204.19	-368.84	429.75	-495.98	6.88	6.76	-1.32	
7764.00†	89.866	192.443	7204.22	-356.91	418.05	-498.66	8.23	0.13	-8.22	TPZ (480'FNL & 90'FWL, SEC.02)
7841.00	89.970	186.110	7204.33	-280.02	342.10	-511.07	8.23	0.13	-8.22	
7930.00	89.940	175.270	7204.40	-191.65	253.24	-512.14	12.18	-0.03	-12.18	

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Area	COLORADO	Well	ECHEVERRIA 2D-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2D-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8019.00	90.000	174.320	7204.45	-104.57	164.60	-504.07	1.07	0.07	-1.07	
8108.00	90.030	171.200	7204.43	-18.20	76.33	-492.85	3.51	0.03	-3.51	
8197.00	89.970	174.410	7204.43	68.18	-11.96	-481.71	3.61	-0.07	3.61	
8286.00	89.690	174.970	7204.69	155.23	-100.58	-473.47	0.70	-0.31	0.63	
8375.00	90.620	177.650	7204.45	242.75	-189.39	-467.74	3.19	1.04	3.01	
8464.00	89.940	177.340	7204.02	330.60	-278.30	-463.85	0.84	-0.76	-0.35	
8553.00	90.060	177.230	7204.02	418.40	-367.20	-459.64	0.18	0.13	-0.12	
8642.00	89.940	175.500	7204.02	505.95	-456.02	-453.99	1.95	-0.13	-1.94	
8731.00	89.910	175.420	7204.13	593.24	-544.74	-446.95	0.10	-0.03	-0.09	
8820.00	89.940	176.240	7204.25	680.64	-633.50	-440.48	0.92	0.03	0.92	
8910.00	89.940	176.930	7204.34	769.24	-723.34	-435.12	0.77	0.00	0.77	
8999.00	90.030	178.150	7204.37	857.10	-812.26	-431.30	1.37	0.10	1.37	
9088.00	89.910	180.520	7204.41	945.35	-901.24	-430.26	2.67	-0.13	2.66	
9177.00	89.910	181.770	7204.55	1033.93	-990.22	-432.04	1.40	0.00	1.40	
9266.00	90.060	182.860	7204.58	1122.67	-1079.15	-435.64	1.24	0.17	1.22	
9355.00	90.400	186.730	7204.22	1211.60	-1167.82	-443.07	4.37	0.38	4.35	
9444.00	90.180	191.210	7203.77	1300.51	-1255.71	-456.95	5.04	-0.25	5.03	
9533.00	90.090	193.240	7203.56	1389.09	-1342.69	-475.79	2.28	-0.10	2.28	
9623.00	89.970	192.050	7203.51	1478.61	-1430.50	-495.49	1.33	-0.13	-1.32	
9712.00	90.000	190.310	7203.53	1567.33	-1517.81	-512.75	1.96	0.03	-1.96	
9801.00	89.910	188.590	7203.60	1656.23	-1605.60	-527.36	1.94	-0.10	-1.93	
9890.00	90.030	185.890	7203.65	1745.22	-1693.88	-538.58	3.04	0.13	-3.03	
9979.00	90.030	182.440	7203.60	1834.12	-1782.63	-545.04	3.88	0.00	-3.88	
10068.00	90.090	179.120	7203.51	1922.63	-1871.61	-546.25	3.73	0.07	-3.73	
10157.00	90.090	177.080	7203.37	2010.62	-1960.56	-543.30	2.29	0.00	-2.29	
10246.00	90.090	175.500	7203.23	2098.15	-2049.37	-537.54	1.78	0.00	-1.78	
10335.00	89.750	177.160	7203.36	2185.69	-2138.18	-531.85	1.90	-0.38	1.87	
10424.00	89.570	176.450	7203.88	2273.36	-2227.04	-526.88	0.82	-0.20	-0.80	
10513.00	89.260	174.970	7204.79	2360.72	-2315.79	-520.23	1.70	-0.35	-1.66	
10602.00	89.600	174.700	7205.68	2447.81	-2404.42	-512.22	0.49	0.38	-0.30	
10691.00	89.480	174.320	7206.39	2534.79	-2493.01	-503.70	0.45	-0.13	-0.43	
10781.00	89.540	173.820	7207.16	2622.61	-2582.52	-494.40	0.56	0.07	-0.56	
10870.00	89.570	174.400	7207.85	2709.46	-2671.05	-485.27	0.65	0.03	0.65	
10959.00	89.350	174.950	7208.69	2796.50	-2759.66	-477.01	0.67	-0.25	0.62	
11048.00	89.450	175.420	7209.62	2883.70	-2848.34	-469.54	0.54	0.11	0.53	
11137.00	89.510	176.720	7210.43	2971.16	-2937.13	-463.44	1.46	0.07	1.46	
11226.00	89.350	178.080	7211.32	3058.98	-3026.03	-459.41	1.54	-0.18	1.53	
11315.00	89.350	179.700	7212.33	3147.15	-3115.00	-457.68	1.82	0.00	1.82	
11404.00	89.290	180.130	7213.38	3235.52	-3204.00	-457.55	0.49	-0.07	0.48	
11493.00	89.570	180.310	7214.27	3323.94	-3292.99	-457.89	0.37	0.31	0.20	
11582.00	89.380	179.080	7215.08	3412.27	-3381.99	-457.42	1.40	-0.21	-1.38	
11672.00	89.350	178.380	7216.08	3501.39	-3471.96	-455.42	0.78	-0.03	-0.78	
11761.00	89.910	179.330	7216.66	3589.55	-3560.94	-453.64	1.24	0.63	1.07	
11850.00	89.750	180.120	7216.92	3677.89	-3649.93	-453.22	0.91	-0.18	0.89	
11939.00	89.940	181.050	7217.16	3766.38	-3738.93	-454.13	1.07	0.21	1.04	

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REFERENCE WELLPATH IDENTIFICATION

Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#02 ECHEVERRIA 2D-2H-D267 (898'FNL & 589'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2D-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2D-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
12028.00	90.000	182.460	7217.21	3855.04	-3827.88	-456.85	1.59	0.07	1.58	
12117.00	90.150	184.420	7217.09	3943.90	-3916.72	-462.19	2.21	0.17	2.20	
12151.00	90.060	185.890	7217.03	3977.88	-3950.58	-465.25	4.33	-0.26	4.32	LAST BHGE MWD SURVEY (491'FSL & 159'FWL, SEC.02)
12175.00	90.060	185.890	7217.00	4001.88	-3974.45	-467.71	0.00	0.00	0.00	PROJECTION TO BIT (467'FSL & 157'FWL, SEC.02)

HOLE & CASING SECTIONS - Ref Wellbore: ECHEVERRIA 2D-2H-D267 AWB Ref Wellpath: ECHEVERRIA 2D-2H-D267 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	2326.00	2298.00	28.00	2287.57	0.03	-0.01	360.49	-106.01
8.5in Open Hole	2339.00	12175.00	9836.00	2300.35	7217.00	362.77	-106.60	-3974.45	-467.71

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.02-T02N-R67W	-1.00	0.25	-9.81	3177475.48	1306149.69	40°10'19.314"N	104°51'53.636"W	polygon
ECHEVERRIA 2D-2H-D267 TPZ REV-1 (460'FNL & 150'FWL SEC.2)	7205.00	446.96	-436.24	3177045.88	1306593.31	40°10'23.729"N	104°51'59.130"W	point
ECHEVERRIA 2D-2H-D267 BHL REV-1 (460'FSL & 150'FWL SEC.2)	7219.00	-3981.61	-474.89	3177038.95	1302164.78	40°09'39.966"N	104°51'59.627"W	point

WELLPATH COMPOSITION - Ref Wellbore: ECHEVERRIA 2D-2H-D267 AWB Ref Wellpath: ECHEVERRIA 2D-2H-D267 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	2267.00	ISCWSA MWD, Rev. 4 (Standard)	SURFACE SURVEYS FROM CRESTONE PEAK <172-2267>	ECHEVERRIA 2D-2H-D267 AWB
2267.00	12151.00	BHI AutoTrak Curve (Short)	BHGE AUTOTRAK CURVE (SHORT) <2267 - 12151>	ECHEVERRIA 2D-2H-D267 AWB
12151.00	12175.00	Blind Drilling (std)	Projection to bit	ECHEVERRIA 2D-2H-D267 AWB

Actual Wellpath Report

ECHEVERRIA 2D-2H-D267 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#02 ECHEVERRIA 2D-2H-D267 (898'FNL & 589'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2D-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2D-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
2267.00	10.550	345.230	2229.56	TIED INTO 3RD PARTY SURFACE SURVEYS
2406.00	10.280	345.750	2366.27	FIRST BHGE MWD SURVEY
7764.00	89.866	192.443	7204.22	TPZ (480'FNL & 90'FWL, SEC.02)
12151.00	90.060	185.890	7217.03	LAST BHGE MWD SURVEY (491'FSL & 159'FWL, SEC.02)
12175.00	90.060	185.890	7217.00	PROJECTION TO BIT (467'FSL & 157'FWL, SEC.02)