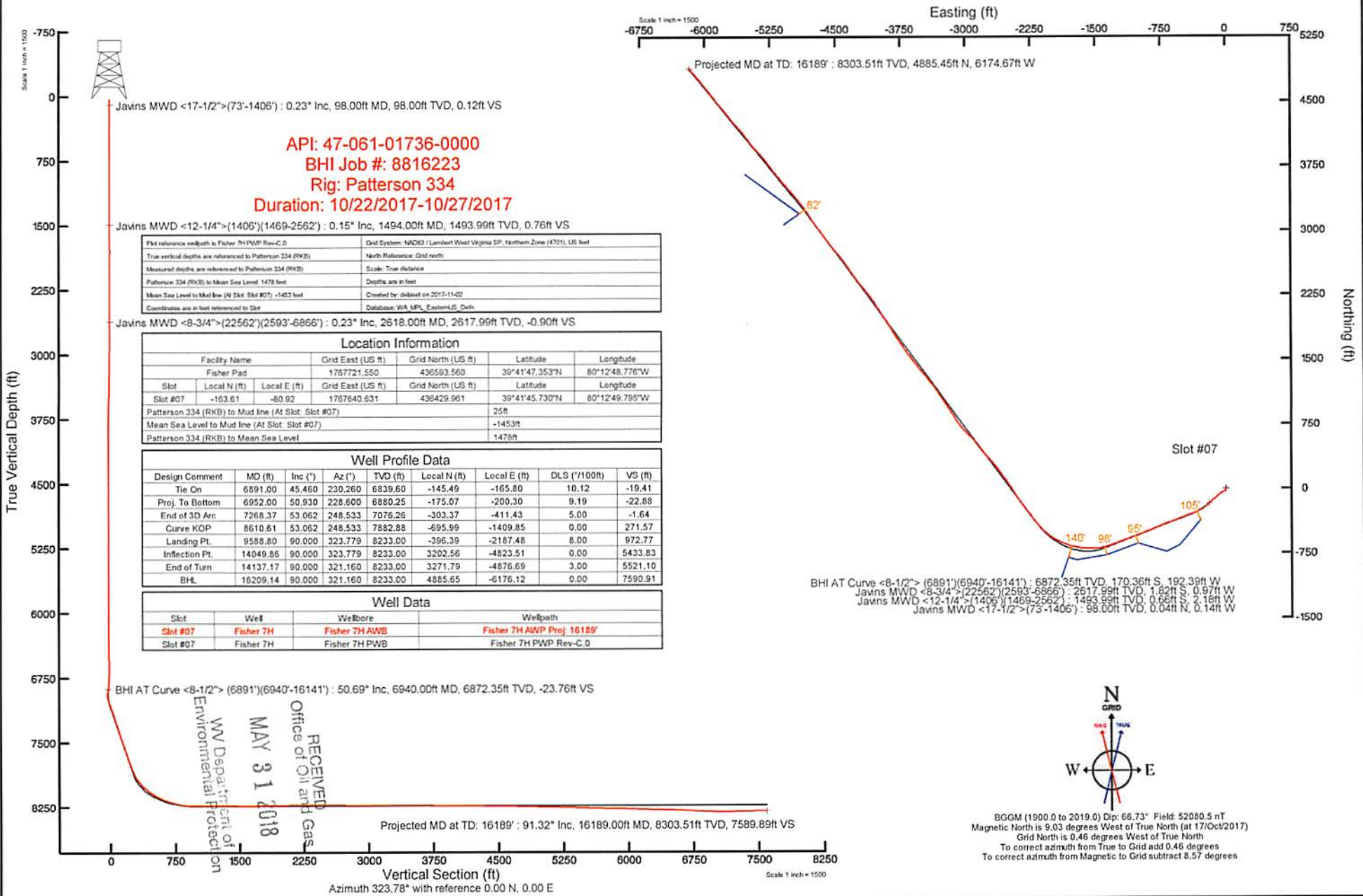


NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: Fisher Pad

Slot: Slot #07
 Well: Fisher 7H
 Wellbore: Fisher 7H PWB



API: 47-061-01736-0000
 BHI Job #: 8816223
 Rig: Patterson 334
 Duration: 10/22/2017-10/27/2017

Pkt reference wellbore is Fisher 7H PWB Rev-C.0	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Patterson 334 (RKB)	North Reference: Grid north
Measured depths are referenced to Patterson 334 (RKB)	Scale: True distance
Patterson 334 (RKB) to Mean Sea Level: 1479 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: Slot #07): -1453 feet	Created by: dslawson on 2017-11-02
Coordinates are in feet referenced to Slot	Database: WA MPL EasternUS Data

Javins MWD $\langle 8-3/4^\circ \rangle$ (22562')(2593'-6866'): 0.23° Inc, 2618.00ft MD, 2617.99ft TVD, -0.90ft VS

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Fisher Pad	1767721.550	436593.560	39°41'47.353"N	80°12'48.776"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #07	-163.61	-80.92	1767640.631	436429.961
			39°41'45.730"N	80°12'49.795"W
Patterson 334 (RKB) to Mud line (At Slot: Slot #07)	25ft			
Mean Sea Level to Mud line (At Slot: Slot #07)	-1453ft			
Patterson 334 (RKB) to Mean Sea Level	1478ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6891.00	45.460	230.260	6839.60	-145.49	-165.80	10.12	-19.41
Proj. To Bottom	6952.00	50.930	228.600	6880.25	-175.07	-200.30	9.19	-22.88
End of 3D Arc	7268.37	53.062	248.533	7076.26	-303.37	-411.43	5.00	-1.64
Curve KOP	8610.61	53.062	248.533	7882.88	-695.99	-1409.85	0.00	271.57
Landing Pt.	9588.80	90.000	323.779	8233.00	-396.39	-2187.48	8.00	972.77
Inflection Pt.	14049.86	90.000	323.779	8233.00	3202.56	-4823.51	0.00	5433.83
End of Turn	14137.17	90.000	321.160	8233.00	3271.79	-4876.69	3.00	5521.10
BHL	16209.14	90.000	321.160	8233.00	4885.65	-6176.12	0.00	7590.91

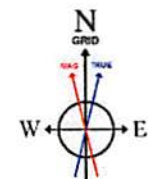
Well Data			
Slot	Well	Wellbore	Wellpath
Slot #07	Fisher 7H	Fisher 7H AWS	Fisher 7H AWP Proj: 16189'
Slot #07	Fisher 7H	Fisher 7H PWB	Fisher 7H PWB Rev-C.0

BHI AT Curve $\langle 8-1/2^\circ \rangle$ (6891')(6940'-16141'): 50.69° Inc, 6940.00ft MD, 6872.35ft TVD, -23.76ft VS

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Projected MD at TD: 16189' : 91.32° Inc, 16189.00ft MD, 8303.51ft TVD, 7589.89ft VS

Vertical Section (ft)
 Azimuth 323.78° with reference 0.00 N, 0.00 E



BGGM (1900.0 to 2019.0) Dip: 66.73° Field: 52080.5 nT
 Magnetic North is 9.03 degrees West of True North (at 17/Oct/2017)
 Grid North is 0.46 degrees West of True North
 To correct azimuth from True to Grid add 0.46 degrees
 To correct azimuth from Magnetic to Grid subtract 8.57 degrees

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes
Software System: WellArchitect® 5.1

REFERENCE WELLPATH IDENTIFICATION

Operator NORTHEAST NATURAL ENERGY, LLC
Area Monongalia County, WV
Field Monongalia
Facility Fisher Pad
Slot Slot 807
Well Fisher 7H
Wellbore Fisher 7H AWB
Wellpath Fisher 7H AWP Proj: 16189
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Ref: Grid
Scale 0.999941
Converger 0.46° West
Software WellArchitect® 5.1
User Delaset
Report Ge 02/Nov/2017 at 15:59
DataBase/ WA_MPL_EasternUS_Defn/ev1070.xml

WELLPATH: Local North Local East Easting Northing Latitude Longitude
[ft] [ft] [US ft] [US ft]
Slot Locati -163.61 -50.92 1767641 436430 39°41'45.7 60°12'49.795°W
Facility Re 1767722 436593.6 39°41'47.3 60°12'48.776°W
Field Refer 1777656 440640.7 39°42'28.1 60°10'41.690°W

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Slot
Vertical R Patterson 334 (RKB)
MD Refer Patterson 334 (RKB)
Field Vert Mean Sea Level
Patterson 1478.00ft
Patterson 1478.00ft
Patterson 25.00ft
Section Or N 0.00, E 0.00 ft
Section Az 323.78°

WELLPATH DATA † = Interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Di	Closure Di DIS	Build Rate	Turn Rate	Comments	
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[°]	[°]	[ft]	[°/100ft]	[°/100ft]	[°/100ft]		
†	0	0	286.38	0	0	0	0	1767641	436430	39°41'45.7	60°12'49.7	0	0	0		
	25	0	286.38	25	0	0	0	1767641	436430	39°41'45.7	60°12'49.7	0	0	0		
	98	0.23	286.38	98	0.12	0.04	-0.14	1767640	436430	39°41'45.7	60°12'49.7	0.15	286.38	0.32	-100.85	Javins MWD <17-1/2">{73-1406}
	127	0.28	271.71	127	0.21	0.06	-0.27	1767640	436430	39°41'45.7	60°12'49.7	0.27	282.623	0.26	0.17	-50.59
	157	0.31	318.3	157	0.33	0.12	-0.39	1767640	436430.1	39°41'45.7	60°12'49.8	0.41	287.268	0.78	0.1	155.3
	186	0.31	350.47	186	0.48	0.26	-0.46	1767640	436430.2	39°41'45.7	60°12'49.8	0.53	299.358	0.59	0	110.93
	215	0.09	56.05	215	0.55	0.35	-0.45	1767640	436430.3	39°41'45.7	60°12'49.8	0.57	307.537	0.98	-0.76	226.14
	246	0.17	273.27	246	0.58	0.36	-0.48	1767640	436430.3	39°41'45.7	60°12'49.8	0.6	307.27	0.8	0.26	-460.58
	277	0.12	155.83	277	0.58	0.34	-0.51	1767640	436430.3	39°41'45.7	60°12'49.8	0.61	303.417	0.8	-0.16	-378.84
	308	0.1	65.96	308	0.54	0.32	-0.47	1767640	436430.3	39°41'45.7	60°12'49.8	0.57	303.958	0.5	-0.06	-789.9
	339	0.35	115.57	339	0.45	0.29	-0.36	1767640	436430.3	39°41'45.7	60°12'49.8	0.47	308.491	0.95	0.51	160.03
	370	0.17	174.78	370	0.33	0.2	-0.27	1767640	436430.2	39°41'45.7	60°12'49.7	0.34	306.464	0.97	-0.58	191
	402	0.23	164.33	402	0.22	0.09	-0.25	1767640	436430.1	39°41'45.7	60°12'49.7	0.27	290.335	0.22	0.19	-32.66
	433	0.27	195.08	433	0.12	-0.04	-0.25	1767640	436429.9	39°41'45.7	60°12'49.7	0.26	261.793	0.45	0.13	99.19
	464	0.17	211.21	464	0.06	-0.15	-0.3	1767640	436429.8	39°41'45.7	60°12'49.7	0.33	243.784	0.38	-0.32	52.03
	495	0.25	143.97	495	-0.03	-0.24	-0.28	1767640	436429.7	39°41'45.7	60°12'49.7	0.37	229.505	0.78	0.26	-216.9
	526	0.31	142.6	526	-0.18	-0.36	-0.19	1767640	436429.6	39°41'45.7	60°12'49.7	0.41	207.832	0.19	0.19	-4.42
	557	0.07	134.48	557	-0.28	-0.44	-0.13	1767641	436429.5	39°41'45.7	60°12'49.7	0.46	195.995	0.78	-0.77	-26.19
	588	0	227.34	588	-0.3	-0.46	-0.11	1767641	436429.5	39°41'45.7	60°12'49.7	0.47	193.961	0.23	-0.23	-433.81
	620	0.07	324.02	620	-0.28	-0.44	-0.12	1767641	436429.5	39°41'45.7	60°12'49.7	0.46	195.839	0.22	0.22	-112.44
	651	0.11	271.2	651	-0.24	-0.42	-0.17	1767640	436429.5	39°41'45.7	60°12'49.7	0.45	201.352	0.28	0.13	-170.39
	682	0.34	260.91	682	-0.18	-0.44	-0.29	1767640	436429.5	39°41'45.7	60°12'49.7	0.52	213.195	0.75	0.74	-33.19
	713	0.29	275.19	713	-0.09	-0.44	-0.46	1767640	436429.5	39°41'45.7	60°12'49.8	0.64	225.658	0.3	-0.16	46.06
	745	0.04	208.93	745	-0.04	-0.45	-0.54	1767640	436429.5	39°41'45.7	60°12'49.8	0.7	230.43	0.86	-0.78	-207.06
	776	0.14	195.25	776	-0.07	-0.49	-0.56	1767640	436429.5	39°41'45.7	60°12'49.8	0.74	228.442	0.33	0.32	-44.13
	808	0.32	252.31	808	-0.07	-0.56	-0.65	1767640	436429.4	39°41'45.7	60°12'49.8	0.85	229.427	0.85	0.56	178.31
	839	0.24	276.15	838.99	0.01	-0.58	-0.8	1767640	436429.4	39°41'45.7	60°12'49.8	0.99	234.138	0.45	-0.26	76.9
	870	0.12	167.95	859.99	0.02	-0.6	-0.86	1767640	436429.4	39°41'45.7	60°12'49.8	1.05	234.89	0.97	-0.39	-349.03
	901	0.13	276.38	900.99	0.01	-0.63	-0.88	1767640	436429.3	39°41'45.7	60°12'49.8	1.09	234.544	0.65	0.03	349.77
	932	0.22	181.75	931.99	-0.01	-0.69	-0.92	1767640	436429.3	39°41'45.7	60°12'49.8	1.15	233.349	0.85	0.29	-305.26
	963	0.31	229.57	962.99	-0.06	-0.8	-0.99	1767640	436429.2	39°41'45.7	60°12'49.8	1.27	230.995	0.74	0.29	154.26
	994	0.22	276.87	993.99	-0.03	-0.85	-1.11	1767640	436429.1	39°41'45.7	60°12'49.8	1.4	232.663	0.74	-0.29	152.58
	1026	0.25	291.05	1025.99	0.07	-0.81	-1.24	1767639	436429.2	39°41'45.7	60°12'49.8	1.48	236.626	0.2	0.09	44.31
	1057	0.13	284.81	1056.99	0.16	-0.78	-1.33	1767639	436429.2	39°41'45.7	60°12'49.8	1.55	239.638	0.39	-0.39	-20.13
	1088	0.13	249.43	1087.99	0.19	-0.78	-1.4	1767639	436429.2	39°41'45.7	60°12'49.8	1.6	240.742	0.25	0	-114.13
	1119	0.05	311.42	1118.99	0.22	-0.79	-1.44	1767639	436429.2	39°41'45.7	60°12'49.8	1.64	241.372	0.37	-0.26	199.97
	1150	0.21	222.52	1149.99	0.22	-0.82	-1.49	1767639	436429.1	39°41'45.7	60°12'49.8	1.7	241.182	0.69	0.52	-286.77
	1182	0.22	299.74	1181.99	0.26	-0.83	-1.58	1767639	436429.1	39°41'45.7	60°12'49.8	1.79	242.259	0.84	0.03	241.31
	1213	0.03	97.58	1212.99	0.31	-0.81	-1.63	1767639	436429.2	39°41'45.7	60°12'49.8	1.82	243.694	0.8	-0.61	509.16
	1244.2	0.17	280.6	1244.19	0.34	-0.8	-1.67	1767639	436429.2	39°41'45.7	60°12'49.8	1.85	244.415	0.64	0.45	-567.24
	1275	0.21	337.44	1274.99	0.43	-0.74	-1.73	1767639	436429.2	39°41'45.7	60°12'49.8	1.88	246.952	0.6	0.13	184.55
	1307	0.03	145.02	1306.99	0.48	-0.69	-1.75	1767639	436429.3	39°41'45.7	60°12'49.8	1.88	248.489	0.75	-0.56	523.69
	1338	0.22	322.06	1337.99	0.53	-0.65	-1.78	1767639	436429.3	39°41'45.7	60°12'49.8	1.9	249.975	0.81	0.61	571.1
	1369	0.35	308.91	1368.99	0.68	-0.54	-1.89	1767639	436429.4	39°41'45.7	60°12'49.8	1.97	253.987	0.47	0.42	-42.42
	1400	0.12	230.48	1399.99	0.77	-0.5	-1.99	1767639	436429.5	39°41'45.7	60°12'49.8	2.06	255.92	1.06	-0.74	-223.97
	1431	0.16	235.77	1430.99	0.78	-0.54	-2.06	1767639	436429.4	39°41'45.7	60°12'49.8	2.13	255.271	0.13	0.13	-11.97
	1494	0.15	215.08	1493.99	0.76	-0.66	-2.18	1767638	436429.3	39°41'45.7	60°12'49.8	2.28	253.191	0.09	-0.02	-32.84
	1525	0.15	218.35	1524.99	0.73	-0.72	-2.23	1767638	436429.2	39°41'45.7	60°12'49.8	2.34	252.011	0.03	0	10.55
	1556	0.17	245.67	1555.99	0.73	-0.77	-2.29	1767638	436429.2	39°41'45.7	60°12'49.8	2.42	251.358	0.25	0.06	88.13
	1587	0.15	262.81	1586.99	0.76	-0.8	-2.38	1767638	436429.2	39°41'45.7	60°12'49.8	2.51	251.438	0.17	-0.06	55.29
	1619	0.05	304.39	1618.99	0.79	-0.8	-2.43	1767638	436429.2	39°41'45.7	60°12'49.8	2.56	251.873	0.37	-0.31	129.94
	1650	0.06	350.24	1649.99	0.82	-0.77	-2.44	1767638	436429.2	39°41'45.7	60°12'49.8	2.56	252.465	0.16	0.03	167.26
	1681	0.07	239.55	1680.99	0.84	-0.76	-2.46	1767638	436429.2	39°41'45.7	60°12'49.8	2.57	252.722	0.36	0.03	-376.42
	1712	0.05	319.08	1711.99	0.85	-0.76	-2.48	1767638	436429.2	39°41'45.7	60°12'49.8	2.6	252.9	0.25	-0.06	256.55

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1744	0.04	1.3	1743.99	0.87	-0.74	-2.49	1767638	436429.2	39*41*45.7	80*12*49.8	2.6	253.415	0.11	-0.03	131.94
1775	0.15	344.75	1774.99	0.92	-0.69	-2.5	1767638	436429.3	39*41*45.7	80*12*49.8	2.6	254.537	0.36	0.35	-53.39
1806	0.06	101.35	1805.99	0.95	-0.66	-2.5	1767638	436429.3	39*41*45.7	80*12*49.8	2.58	255.275	0.6	-0.29	376.13
1837	0.23	114.3	1836.99	0.88	-0.69	-2.42	1767638	436429.3	39*41*45.7	80*12*49.8	2.52	254.222	0.56	0.55	41.77
1868	0.2	102.48	1867.99	0.79	-0.72	-2.32	1767638	436429.2	39*41*45.7	80*12*49.8	2.43	252.67	0.17	-0.1	-38.13
1900	0.22	110.41	1899.99	0.69	-0.76	-2.2	1767638	436429.2	39*41*45.7	80*12*49.8	2.33	251.062	0.11	0.06	24.78
1931	0.15	156.99	1930.99	0.61	-0.82	-2.14	1767638	436429.1	39*41*45.7	80*12*49.8	2.29	249.107	0.6	-0.23	182.52
1962	0.13	146.54	1961.99	0.53	-0.89	-2.11	1767639	436429.1	39*41*45.7	80*12*49.8	2.29	247.241	0.17	-0.06	-65.97
1993	0.14	78.14	1992.99	0.48	-0.91	-2.05	1767639	436429.1	39*41*45.7	80*12*49.8	2.24	246.176	0.49	0.03	-220.65
2024	0.17	82.92	2023.99	0.44	-0.89	-1.97	1767639	436429.1	39*41*45.7	80*12*49.8	2.16	245.617	0.11	0.1	15.42
2055	0.29	122.73	2054.99	0.35	-0.93	-1.86	1767639	436429	39*41*45.7	80*12*49.8	2.08	243.423	0.62	0.39	128.42
2087	0.15	123.78	2086.99	0.23	-1	-1.76	1767639	436429	39*41*45.7	80*12*49.8	2.02	240.413	0.44	-0.44	3.28
2118	0.18	100.93	2117.99	0.16	-1.03	-1.67	1767639	436428.9	39*41*45.7	80*12*49.8	1.97	238.433	0.23	0.1	-73.71
2149	0.29	94.81	2148.99	0.07	-1.04	-1.55	1767639	436428.9	39*41*45.7	80*12*49.8	1.87	235.996	0.36	0.35	-19.74
2180	0.37	115.07	2179.99	-0.07	-1.09	-1.38	1767639	436428.9	39*41*45.7	80*12*49.8	1.76	231.597	0.45	0.26	65.35
2212	0.24	111.07	2211.99	-0.21	-1.16	-1.22	1767639	436428.8	39*41*45.7	80*12*49.8	1.69	226.49	0.41	-0.41	-12.5
2243	0.2	98.03	2242.99	-0.31	-1.19	-1.11	1767640	436428.8	39*41*45.7	80*12*49.8	1.63	222.934	0.21	-0.13	-41.9
2274	0.19	107.18	2273.99	-0.39	-1.22	-1.01	1767640	436428.8	39*41*45.7	80*12*49.8	1.58	219.639	0.1	-0.03	29.35
2305	0.16	153.6	2304.99	-0.47	-1.27	-0.94	1767640	436428.7	39*41*45.7	80*12*49.8	1.58	216.478	0.45	-0.1	149.74
2336	0.14	159.65	2335.99	-0.55	-1.34	-0.91	1767640	436428.6	39*41*45.7	80*12*49.8	1.62	213.994	0.08	-0.06	19.52
2368	0.08	97.06	2367.99	-0.6	-1.38	-0.87	1767640	436428.6	39*41*45.7	80*12*49.8	1.63	212.101	0.39	-0.19	-195.59
2400	0.06	184.11	2399.99	-0.63	-1.4	-0.85	1767640	436428.6	39*41*45.7	80*12*49.8	1.64	211.399	0.3	-0.06	272.03
2431	0.05	99.36	2430.99	-0.65	-1.42	-0.84	1767640	436428.5	39*41*45.7	80*12*49.8	1.65	210.506	0.24	-0.03	-273.39
2462	0.18	226.79	2461.99	-0.67	-1.46	-0.86	1767640	436428.5	39*41*45.7	80*12*49.8	1.69	210.541	0.69	0.42	411.99
2493	0.1	253.25	2492.99	-0.66	-1.5	-0.92	1767640	436428.5	39*41*45.7	80*12*49.8	1.76	211.583	0.33	-0.26	85.35
2524	0.15	207.74	2523.99	-0.67	-1.54	-0.97	1767640	436428.4	39*41*45.7	80*12*49.8	1.82	212.054	0.35	0.16	-146.81
2556	0.19	209.85	2555.99	-0.71	-1.62	-1.01	1767640	436428.3	39*41*45.7	80*12*49.8	1.91	211.908	0.13	0.12	6.59
2587	0.19	152.15	2586.99	-0.78	-1.71	-1.01	1767640	436428.3	39*41*45.7	80*12*49.8	1.99	210.577	0.59	0	-186.13
2618	0.23	158.58	2617.99	-0.9	-1.82	-0.97	1767640	436428.1	39*41*45.7	80*12*49.8	2.06	207.993	0.15	0.13	20.74
2649	0.06	134.28	2648.99	-0.97	-1.89	-0.93	1767640	436428.1	39*41*45.7	80*12*49.8	2.1	206.282	0.57	-0.55	-78.39
2673	0.15	227.57	2672.99	-0.99	-1.92	-0.95	1767640	436428	39*41*45.7	80*12*49.8	2.14	206.267	0.69	0.37	388.71
2712	0.17	158.93	2711.99	-1.03	-2.01	-1	1767640	436428	39*41*45.7	80*12*49.8	2.24	206.552	0.21	0.05	-73.44
2743	0.2	187.54	2742.99	-1.09	-2.1	-1.02	1767640	436427.9	39*41*45.7	80*12*49.8	2.34	205.971	0.15	0.1	-36.74
2774	0.19	197.18	2773.99	-1.16	-2.21	-1.05	1767640	436427.8	39*41*45.7	80*12*49.8	2.44	205.385	0.11	-0.03	31.1
2805	0.34	195.66	2804.99	-1.25	-2.34	-1.09	1767640	436427.6	39*41*45.7	80*12*49.8	2.58	204.878	0.48	0.48	-4.9
2836	1.24	198.93	2835.99	-1.5	-2.75	-1.22	1767639	436427.2	39*41*45.7	80*12*49.8	3.01	203.935	2.91	2.9	10.55
2868	2.1	201.34	2867.97	-2.01	-3.62	-1.55	1767639	436426.3	39*41*45.6	80*12*49.8	3.94	203.11	2.7	2.69	7.53
2899	2.44	200.5	2898.94	-2.68	-4.77	-1.98	1767639	436425.2	39*41*45.6	80*12*49.8	5.17	202.582	1.1	1.1	-2.71
2930	2.38	201.2	2929.92	-3.38	-5.99	-2.45	1767638	436424	39*41*45.6	80*12*49.8	6.47	202.232	0.22	-0.19	2.26
2961	2.21	198.27	2960.89	-4.03	-7.16	-2.87	1767635	436422.8	39*41*45.6	80*12*49.8	7.71	201.839	0.67	-0.55	-9.45
2992	1.92	196.54	2991.87	-4.74	-8.22	-3.2	1767637	436421.7	39*41*45.6	80*12*49.8	8.82	201.766	0.96	-0.94	-5.58
3024	1.64	198.63	3023.86	-5.33	-9.17	-3.5	1767637	436420.8	39*41*45.6	80*12*49.8	9.82	200.903	0.9	-0.87	6.53
3055	1.91	200.85	3054.84	-5.86	-10.07	-3.83	1767637	436419.9	39*41*45.6	80*12*49.8	10.78	200.807	0.9	0.87	7.16
3086	2.12	202.26	3085.82	-6.44	-11.09	-4.23	1767636	436418.9	39*41*45.6	80*12*49.8	11.87	200.879	0.7	0.68	4.55
3117	2.2	202.23	3116.8	-7.06	-12.17	-4.67	1767636	436417.8	39*41*45.6	80*12*49.8	13.03	201.002	0.26	0.26	-0.1
3149	2.15	204.74	3148.78	-7.67	-13.28	-5.15	1767635	436416.7	39*41*45.5	80*12*49.8	14.25	201.212	0.34	-0.16	7.84
3180	2.08	204.81	3179.76	-8.22	-14.32	-5.63	1767635	436415.6	39*41*45.5	80*12*49.8	15.39	201.477	0.23	-0.23	0.23
3211	1.93	206.21	3210.74	-8.74	-15.3	-6.1	1767635	436414.7	39*41*45.5	80*12*49.8	16.47	201.74	0.51	-0.48	4.52
3242	1.74	204.69	3241.72	-9.21	-16.19	-6.53	1767634	436413.8	39*41*45.5	80*12*49.8	17.46	201.953	0.63	-0.61	-4.9
3273	1.72	203.45	3272.71	-9.67	-17.05	-6.91	1767634	436412.9	39*41*45.5	80*12*49.8	18.4	202.061	0.14	-0.06	-3.97
3305	1.97	200.94	3304.69	-10.21	-18	-7.3	1767633	436412	39*41*45.5	80*12*49.8	19.43	202.064	0.82	0.78	-7.88
3336	2.33	202.09	3335.67	-10.83	-19.08	-7.72	1767633	436410.9	39*41*45.5	80*12*49.8	20.59	202.036	1.17	1.16	3.71
3367	2.4	202.3	3366.64	-11.5	-20.27	-8.21	1767632	436409.7	39*41*45.5	80*12*49.8	21.87	202.045	0.23	0.23	0.68
3398	2.37	200.47	3397.62	-12.19	-21.47	-8.68	1767632	436408.5	39*41*45.5	80*12*49.8	23.16	202.009	0.26	-0.1	-5.9
3429	2.24	201.35	3428.59	-12.87	-22.64	-9.12	1767632	436407.3	39*41*45.5	80*12*49.8	24.4	201.952	0.43	-0.42	2.84
3461	2.08	203.83	3460.57	-13.51	-23.76	-9.57	1767631	436406.2	39*41*45.4	80*12*49.8	25.61	201.935	0.5	-0.5	1.5
3492	1.95	197.63	3491.55	-14.12	-24.78	-9.94	1767631	436405.2	39*41*45.4	80*12*49.8	26.7	201.847	0.63	-0.42	-13.55
3523	1.71	197.07	3522.53	-14.71	-25.73	-10.23	1767630	436404.2	39*41*45.4	80*12*49.8	27.69	201.687	0.78	-0.77	-1.81
3554	1.46	197.71	3553.52	-15.22	-26.54	-10.49	1767630	436403.4	39*41*45.4	80*12*49.8	28.54	201.558	0.81	-0.81	2.06
3586	1.35	198.73	3585.51	-15.67	-27.29	-10.73	1767630	436402.7	39*41*45.4	80*12*49.8	29.32	201.468	0.35	-0.34	3.19
3617	1.03	198.22	3616.5	-16.05	-27.9	-10.94	1767630	436402.1	39*41*45.4	80*12*49.8	29.97	201.404	1.03	-1.03	-1.65
3648	0.92	190.51	3647.5	-16.38	-28.41	-11.07	1767630	436401.6	39*41*45.4	80*12*49.8	30.49	201.287	0.55	-0.35	-24.87
3679	0.67	182.98	3678.5	-16.69	-28.84	-11.12	1767630	436401.1	39*41*45.4	80*12*49.8	30.91	201.095	0.87	-0.81	-24.29
3710	0.64	183.32	3709.5	-16.96	-29.19	-11.14	1767629	436400.8	39*41*45.4	80*12*49.8	31.24	200.895	0.1	-0.1	1.1
3742	0.47	176.76	3741.49	-17.21	-29.5	-11.15	1767629	436400.5	39*41*45.4	80*12*49.8	31.53	200.699	0.57	-0.53	-20.5
3773	0.4	167.65	3772.49	-17.42	-29.73	-11.12	1767630	436400.2	39*41*45.4	80*12*49.8	31.74	200.5	0.32	-0.23	-29.39
3804	0.34	160.68	3803.49	-17.6	-29.92	-11.06	1767630	436400	39*41*45.4	80*12*49.8	31.9	200.288	0.24	-0.19	-22.48
3835	0.31	156.71	3834.49	-17.77	-30.09	-11	1767630	436399.9	39*41*45.4	80*12*49.8	32.04	200.08	0.12	-0.12	-12.81
3866	0.23	169.18	3865.49	-17.91	-30.23	-10.95	1767630	436399.7	39*41*45.4	80*12*49.8	32.15	199.921	0.32	-0.26	40.23
3898	0.19	183.62	3897.49	-18.01	-30.34	-10.95	1767630	436399.6	39*41*45.4	80*12*49.8	32.26	199.836	0.21	-0.13	45.12

4896	0.64	339.97	4095.47	-15.11	-31.55	-12.42	1767628	436398.4	39°41'45.4	80°12'49.9	33.91	201.493	0.49	0.48	-3.52
4927	0.8	344.12	4926.47	-17.74	-31.18	-12.54	1767628	436398.8	39°41'45.4	80°12'49.9	33.6	201.913	0.54	0.52	13.39
4958	1	343.04	4957.47	-17.28	-30.71	-12.68	1767628	436399.3	39°41'45.4	80°12'49.9	33.22	202.434	0.65	0.65	-3.48
4990	0.62	348.56	4989.46	-16.86	-30.27	-12.79	1767628	436399.7	39°41'45.4	80°12'49.9	32.87	202.911	1.21	-1.19	17.25
5021	0.44	343.37	5020.46	-16.6	-29.99	-12.86	1767628	436400	39°41'45.4	80°12'49.9	32.64	203.211	0.6	-0.58	-16.74
5052	0.55	333.03	5051.46	-16.34	-29.75	-12.96	1767628	436400.2	39°41'45.4	80°12'49.9	32.45	203.547	0.46	0.35	-33.35
5083	0.37	322.56	5082.46	-16.09	-29.54	-13.09	1767628	436400.4	39°41'45.4	80°12'49.9	32.31	203.906	0.64	-0.58	-33.77
5115	0.13	239.03	5114.46	-15.99	-29.47	-13.19	1767627	436400.5	39°41'45.4	80°12'49.9	32.29	204.104	1.18	-0.75	-261.03
5146	0.27	215.9	5145.46	-16	-29.55	-13.26	1767627	436400.4	39°41'45.4	80°12'49.9	32.39	204.166	0.51	0.45	-74.61
5177	0.58	201.84	5176.46	-16.11	-29.75	-13.35	1767627	436400.2	39°41'45.4	80°12'49.9	32.62	204.181	1.05	1	-45.35
5203	0.89	200.06	5207.46	-16.33	-30.13	-13.5	1767627	436399.8	39°41'45.4	80°12'49.9	33.01	204.14	1	1	-5.74
5239	0.96	214.39	5238.45	-16.55	-30.57	-13.73	1767627	436399.4	39°41'45.4	80°12'49.9	33.51	204.189	0.78	0.23	46.23
5270	0.49	220.09	5269.45	-16.66	-30.88	-13.96	1767627	436399.1	39°41'45.4	80°12'49.9	33.89	204.328	1.53	-1.52	18.39
5302	0.21	57.89	5301.45	-16.7	-30.96	-14	1767627	436399	39°41'45.4	80°12'49.9	33.98	204.336	2.17	-0.87	-506.87
5332	0.7	43.04	5331.45	-16.67	-30.79	-13.83	1767627	436399.2	39°41'45.4	80°12'49.9	33.76	204.105	1.67	1.63	-49.5
5364	1.09	43.04	5363.44	-16.58	-30.43	-13.49	1767627	436399.5	39°41'45.4	80°12'49.9	33.28	203.907	1.22	1.22	0
5395	1.37	27.52	5394.44	-16.36	-29.88	-13.12	1767628	436400.1	39°41'45.4	80°12'49.9	32.64	203.696	1.4	0.9	-50.06
5426	1.36	33.84	5425.43	-16.07	-29.25	-12.74	1767628	436400.7	39°41'45.4	80°12'49.9	31.9	203.536	0.49	-0.03	20.39
5457	1.16	55	5456.42	-15.95	-28.76	-12.28	1767628	436401.2	39°41'45.4	80°12'49.9	31.27	203.115	1.62	-0.65	68.26
5488	1.2	73.28	5487.41	-16.07	-28.49	-11.71	1767629	436401.5	39°41'45.4	80°12'49.9	30.8	202.343	1.22	0.13	58.97
5520	1.23	67.87	5519.41	-16.26	-28.26	-11.07	1767630	436401.7	39°41'45.4	80°12'49.9	30.36	201.389	0.37	0.09	-16.91
5551	0.89	66.14	5550.4	-16.39	-28.04	-10.54	1767630	436401.9	39°41'45.4	80°12'49.9	29.96	200.604	1.1	-1.1	-5.58
5582	0.36	72.03	5581.4	-16.48	-27.91	-10.23	1767630	436402.1	39°41'45.4	80°12'49.9	29.73	200.126	1.72	-1.71	19
5613	0.13	149.07	5612.4	-16.54	-27.91	-10.12	1767631	436402.1	39°41'45.4	80°12'49.9	29.69	199.925	1.14	-0.74	248.52
5644	0.42	216.46	5643.4	-16.61	-28.04	-10.17	1767630	436401.9	39°41'45.4	80°12'49.9	29.82	199.935	1.25	0.94	217.39
5675	0.44	238.66	5674.4	-16.63	-28.19	-10.34	1767630	436401.8	39°41'45.4	80°12'49.9	30.03	200.139	0.54	0.06	71.61
5707	0.35	266.47	5706.4	-16.57	-28.26	-10.54	1767630	436401.7	39°41'45.4	80°12'49.9	30.16	200.454	0.65	-0.28	86.91
5738	0.52	286.71	5737.4	-16.41	-28.22	-10.77	1767630	436401.7	39°41'45.4	80°12'49.9	30.21	200.884	0.73	0.55	65.29
5769	0.53	297.71	5768.39	-16.17	-28.12	-11.03	1767630	436401.8	39°41'45.4	80°12'49.9	30.2	201.421	0.33	0.03	35.48
5800	0.49	290.51	5799.39	-15.93	-28	-11.28	1767629	436402	39°41'45.4	80°12'49.9	30.19	201.943	0.24	-0.13	-23.23
5831	0.39	300.31	5830.39	-15.72	-27.9	-11.5	1767629	436402.1	39°41'45.4	80°12'49.9	30.18	202.392	0.4	-0.32	31.61
5862	0.29	294.27	5861.39	-15.55	-27.82	-11.66	1767629	436402.1	39°41'45.4	80°12'49.9	30.16	202.74	0.34	-0.32	-19.48
5893	0.2	282.43	5892.39	-15.44	-27.78	-11.78	1767629	436402.2	39°41'45.4	80°12'49.9	30.17	202.99	0.33	-0.29	-38.19
5925	0.21	209.22	5924.39	-15.43	-27.81	-11.87	1767629	436402.2	39°41'45.4	80°12'49.9	30.24	203.106	0.76	0.03	-228.78
5956	0.12	201.14	5955.39	-15.47	-27.89	-11.91	1767629	436402.1	39°41'45.4	80°12'49.9	30.33	203.115	0.3	-0.29	-26.06
5987	0.48	212.15	5986.39	-15.53	-28.03	-11.99	1767629	436401.9	39°41'45.4	80°12'49.9	30.49	203.151	1.17	1.16	35.52
6018	0.62	208.94	6017.39	-15.65	-28.29	-12.14	1767628	436401.7	39°41'45.4	80°12'49.9	30.79	203.221	0.46	0.45	-10.35
6049	0.72	217.78	6048.39	-15.78	-28.59	-12.34	1767628	436401.4	39°41'45.4	80°12'49.9	31.14	203.341	0.46	0.32	28.52
6080	0.63	218.52	6079.39	-15.87	-28.83	-12.56	1767628	436401.1	39°41'45.4	80°12'49.9	31.49	203.511	0.29	-0.29	2.39
6112	0.61	226.06	6111.38	-15.94	-29.14	-12.8	1767628	436400.8	39°41'45.4	80°12'49.9	31.82	203.711	0.26	-0.06	23.56
6143	0.61	243.96	6142.38	-15.94	-29.32	-13.06	1767628	436400.6	39°41'45.4	80°12'49.9	32.1	204.013	0.61	0	57.74
6174	0.53	250.9	6173.38	-15.87	-29.44	-13.35	1767627	436400.5	39°41'45.4	80°12'49.9	32.33	204.386	0.34	-0.26	22.39
6205	0.35	250.96	6204.38	-15.8	-29.52	-13.57	1767627	436400.4	39°41'45.4	80°12'49.9	32.49	204.691	0.58	-0.58	0.19
6236	0.29	230.71	6235.38	-15.77	-29.6	-13.72	1767627	436400.4	39°41'45.4	80°12'49.9	32.63	204.872	0.41	-0.19	-65.32
6267	0.19	199.19	6266.38	-15.82	-29.72	-13.81	1767627	436400.2	39°41'45.4	80°12'49.9	32.77	204.918	0.51	0	-101.68
6299	0.17	159.95	6298.38	-15.91	-29.84	-13.82	1767627	436400.1	39°41'45.4	80°12'49.9	32.89	204.845	0.6	-0.37	-122.63
6329	0.08	60.65	6328.38	-15.96	-29.88	-13.78	1767627	436400.1	39°41'45.4	80°12'49.9	32.91	204.76	0.58	-0.3	-264.33
6360	0.15	247.3	6359.38	-15.96	-29.9	-13.8	1767627	436400.1	39°41'45.4	80°12'49.9	32.93	204.777	0.74	0.23	537.58
6391	1.25	249.45	6390.38	-15.66	-30.03	-14.15	1767626	436399.9	39°41'45.4	80°12'49.9	33.2	205.235	3.55	3.55	6.94
6423	3.66	240.87	6422.34	-15.64	-30.65	-15.37	1767625	436399.3	39°41'45.4	80°12'49.9	34.29	206.636	7.6	7.53	-26.81
6454	6.58	239.12	6453.22	-15.36	-32.04	-17.76	1767623	436397.9	39°41'45.4	80°12'50.0	36.64	209	9.43	9.42	-5.65
6485	9.69	238.85	6483.9	-14.96	-34.3	-21.52	1767619	436395.7	39°41'45.3	80°12'50.0	40.5	212.1	10.03	10.03	-0.87
6516	12.89	239.77	6514.3	-14.37	-37.4	-26.74	1767614	436392.6	39°41'45.3	80°12'50.1	45.97	215.568	10.34	10.32	2.97
6547	16.06	240.88	6544.31	-13.48	-41.22	-33.48	1767607	436388.7	39°41'45.3	80°12'50.2	53.1	219.078	10.26	10.23	3.58
6578	19.45	240.71	6573.83	-12.32	-45.84	-41.73	1767599	436384.1	39°41'45.2	80°12'50.3	61.99	222.312	10.94	10.94	-0.55
6609	21.71	240.95	6602.85	-10.99	-51.15	-51.24	1767589	436378.8	39°41'45.2	80°12'50.4	72.4	225.052	7.3	7.29	0.77
6641	22.05	235.29	6632.55	-10.09	-57.44	-61.35	1767579	436372.5	39°41'45.1	80°12'50.5	84.05	226.886	6.67	1.06	-17.69
6672	24.05	231.09	6661.07	-10.23	-64.72	-71.05	1767570	436365.2	39°41'45.0	80°12'50.6	96.11	227.669	8.35	6.45	-13.55
6703	26.87	227.87	6689.06	-11.25	-73.39	-81.17	1767559	436356.6	39°41'44.9	80°12'50.8	109.43	227.879	10.13	9.1	-10.39
6734	30.24	226.38	6716.29	-12.98	-83.48	-92.02	1767549	436346.5	39°41'44.8	80°12'50.9	124.24	227.785	11.11	10.87	-4.81
6766	33.72	226.95	6743.42	-15.07	-95.11	-104.35	1767536	436334.9	39°41'44.7	80°12'51.1	141.19	227.652	10.92	10.87	1.78
6797	36.67	229.19	6768.76	-16.84	-107.03	-117.64	1767523	436322.9	39°41'44.6	80°12'51.2	159.05	227.703	10.39	9.52	7.23
6828	39.33	232.01	6793.18	-17.88	-119.13	-132.4	1767508	436310.8	39°41'44.5	80°12'51.4	178.1	228.018	10.24	8.58	9.1
6860	42.68	232.35	6817.33	-18.46	-132	-148.98	1767492	436298	39°41'44.4	80°12'51.6	199.05	228.457	10.49	10.47	1.06
6891	45.46	230.26	6839.6	-19.41	-145.49	-165.8	1767475	436284.5	39°41'44.3	80°12'51.9	220.58	228.733	10.12	8.97	-6.74
6920	50.69	223.84	6872.35	-21.76	-170.36	-192.39	1767448	436259.6	39°41'44.0	80°12'52.2	256.97	228.476	14.45	10.67	-13.1
6953	51.49	212.79	6932.09	-30.75	-219.4	-247.52	1767393	436210.6	39°41'43.5	80°12'52.9	330.76	228.446	7.38	0.84	9.42
7130	51.68	243.52	6991.23	-25.08	-258.57	-310.59	1767330	436171.4	39°41'43.1	80°12'53.7	404.13	230.222	8.85	0.2	11.29
7224	52.95	250.99	7048.74	-7.72	-287.26	-379.12	1767262	436142.7	39°41'42.8						

10353	90.65	323.57	8231.16	1764.71	252.09	-2642.35	1764998	436682	39°41'48.0	80°13'23.6	2654.35	275.45	1.67	0.11	-1.66
10447	90.68	317.55	8230.07	1858.51	324.65	-2702.03	1764939	436754.6	39°41'48.7	80°13'24.3	2721.47	276.851	6.4	0.03	-6.4
10542	90.55	317.81	8229.05	1952.96	394.89	-2765.99	1764875	436824.8	39°41'49.4	80°13'25.2	2794.04	278.125	0.31	-0.14	0.27
10637	91.35	321.91	8227.47	2047.71	467.48	-2827.21	1764814	436897.4	39°41'50.1	80°13'26.0	2865.6	279.389	4.4	0.84	4.32
10732	90.43	323.88	8225.99	2142.68	543.24	-2894.51	1764756	436973.2	39°41'50.8	80°13'26.7	2935.22	280.665	2.29	-0.97	2.07
10828	90.03	314.55	8225.61	2238.27	615.84	-2947.15	1764694	437045.8	39°41'51.5	80°13'27.5	3010.81	281.803	9.73	-0.42	-9.72
10922	89.78	317.54	8225.76	2331.4	683.5	-3012.39	1764628	437113.4	39°41'52.2	80°13'28.4	3088.96	282.784	3.19	-0.27	3.18
11017	89.69	324.62	8226.2	2426.24	757.37	-3072.03	1764569	437187.3	39°41'52.9	80°13'29.1	3164.02	283.849	7.45	-0.09	7.45
11112	89.88	328.48	8226.56	2521.11	836.62	-3124.39	1764516	437266.5	39°41'53.7	80°13'29.8	3234.46	284.99	4.07	0.2	4.06
11207	90.09	325.59	8226.59	2615.94	916.31	-3176.07	1764465	437346.2	39°41'54.5	80°13'30.5	3305.61	286.093	3.05	0.22	-3.04
11302	89.63	326.59	8226.82	2710.66	995.15	-3229.07	1764412	437425.1	39°41'55.3	80°13'31.2	3378.94	287.129	1.16	-0.48	1.05
11397	89.63	325.37	8227.43	2805.79	1073.89	-3282.22	1764359	437503.8	39°41'56.0	80°13'31.8	3453.44	288.117	1.28	0	-1.28
11491	89.08	326.44	8228.49	2899.72	1151.73	-3334.91	1764306	437581.6	39°41'56.8	80°13'32.5	3528.19	289.053	1.28	-0.59	1.14
11586	89.72	320.88	8229.48	2994.67	1228.22	-3391.18	1764250	437658.1	39°41'57.5	80°13'33.3	3606.75	289.909	5.89	0.67	-5.85
11680	89.75	320.48	8229.92	3088.54	1300.94	-3450.74	1764190	437730.8	39°41'58.3	80°13'34.0	3687.83	290.657	0.43	0.03	-0.43
11775	89.85	321.44	8230.25	3183.42	1374.72	-3510.58	1764130	437804.6	39°41'59.0	80°13'34.8	3770.15	291.385	1.02	0.11	1.01
11870	90.18	322.33	8230.23	3278.37	1449.46	-3569.22	1764072	437879.3	39°41'59.7	80°13'35.6	3852.3	292.102	1	0.35	0.94
11963	90.34	322.05	8229.8	3371.33	1522.94	-3626.23	1764015	437952.8	39°42'00.4	80°13'36.3	3933.05	292.781	0.35	0.17	-0.3
12058	90.03	326.16	8229.5	3466.31	1599.88	-3684.91	1763959	438029.7	39°42'01.2	80°13'37.0	4014.49	293.486	4.34	-0.33	4.33
12152	89.66	326.1	8229.75	3560.23	1677.99	-3734.3	1763907	438107.8	39°42'02.0	80°13'37.7	4093.95	294.196	0.4	-0.39	-0.06
12247	89.48	326.06	8230.46	3655.15	1756.76	-3787.31	1763854	438186.6	39°42'02.7	80°13'38.4	4174.92	294.884	0.19	-0.19	-0.04
12342	88.89	329.01	8231.82	3749.92	1836.89	-3838.3	1763803	438266.7	39°42'03.5	80°13'39.0	4255.2	295.574	3.17	-0.62	3.11
12437	89.69	328.12	8232.99	3844.58	1917.94	-3887.84	1763753	438347.8	39°42'04.3	80°13'39.7	4335.18	296.258	1.26	0.84	-0.94
12531	89.51	327.35	8233.65	3938.36	1997.43	-3938.02	1763703	438427.3	39°42'05.1	80°13'40.3	4415.62	296.895	0.84	-0.19	-0.82
12627	89.62	326.72	8234.21	4034.2	2077.97	-3990.25	1763651	438507.8	39°42'05.9	80°13'41.0	4498.9	297.509	0.73	0.32	-0.66
12722	89.69	327.33	8234.62	4129.05	2157.66	-4041.96	1763599	438587.5	39°42'06.7	80°13'41.7	4581.8	298.094	0.66	-0.14	0.64
12816	89.32	322.12	8235.43	4223	2234.38	-4096.22	1763545	438664.2	39°42'07.4	80°13'42.4	4665.99	298.611	5.56	-0.39	-5.54
12911	89.08	321.5	8236.76	4317.93	2309.03	-4154.95	1763486	438738.9	39°42'08.2	80°13'43.1	4753.45	299.062	0.7	-0.25	-0.65
13006	89.26	321.43	8238.13	4412.84	2383.34	-4214.13	1763427	438813.2	39°42'08.9	80°13'43.9	4841.4	299.491	0.2	0.19	-0.07
13101	89.23	323.38	8239.38	4507.8	2458.6	-4272.08	1763369	438888.4	39°42'09.6	80°13'44.7	4929.03	299.921	2.05	-0.03	2.05
13196	89.17	326.19	8240.71	4602.77	2536.2	-4326.85	1763314	438966	39°42'10.4	80°13'45.4	5015.37	300.377	2.96	-0.06	2.96
13291	89.42	325.37	8241.88	4697.7	2614.75	-4380.27	1763261	439044.6	39°42'11.2	80°13'46.1	5101.34	300.835	0.9	0.26	-0.86
13386	89.11	321.67	8243.1	4792.68	2691.11	-4436.74	1763204	439120.9	39°42'11.9	80°13'46.8	5189.1	301.239	3.91	-0.33	-3.89
13481	88.37	318.74	8245.19	4887.46	2764.08	-4492.52	1763143	439191.9	39°42'12.6	80°13'47.6	5279	301.574	3.18	-0.78	-3.08
13576	88.46	323.4	8247.82	4982.29	2837.93	-4557.17	1763084	439267.7	39°42'13.4	80°13'48.3	5368.58	301.912	4.9	0.09	4.91
13671	88.83	324.32	8250.06	5077.26	2914.63	-4613.19	1763028	439344.4	39°42'14.1	80°13'49.1	5456.79	302.285	1.04	0.39	0.97
13766	89.11	324.11	8251.77	5172.24	2991.68	-4668.73	1762972	439421.5	39°42'14.9	80°13'49.8	5545.01	302.651	0.37	0.29	-0.22
13862	89.2	324.61	8253.19	5268.23	3069.69	-4724.66	1762916	439499.5	39°42'15.6	80°13'50.5	5634.31	303.012	0.53	0.09	0.52
13957	88.09	328.41	8255.43	5363.08	3148.88	-4777.05	1762864	439578.7	39°42'16.4	80°13'51.2	5721.51	303.392	4.17	-1.17	4
14053	87.53	326.73	8259.1	5458.79	3229.85	-4828.5	1762812	439659.6	39°42'17.2	80°13'51.9	5809.16	303.779	1.84	-0.58	-1.75
14147	88.12	320.9	8262.67	5552.68	3305.63	-4883.93	1762757	439735.4	39°42'18.0	80°13'52.6	5897.45	304.092	6.23	0.63	-6.2
14243	88.55	321.18	8265.46	5648.53	3380.25	-4944.27	1762697	439810.9	39°42'18.7	80°13'53.3	5989.31	304.359	0.53	0.45	0.29
14338	88.77	320.31	8267.68	5743.37	3453.79	-5004.36	1762637	439883.5	39°42'19.4	80°13'54.1	6080.49	304.612	0.94	0.23	-0.92
14434	89.54	318.75	8269.1	5839.09	3526.81	-5066.66	1762574	439956.6	39°42'20.1	80°13'54.9	6179.29	304.841	1.81	0.8	-1.63
14528	88.28	319.4	8270.89	5932.76	3597.32	-5128.23	1762513	440027.6	39°42'20.8	80°13'55.7	6264.42	305.052	1.51	-1.34	0.69
14623	87.72	322.49	8274.2	6027.57	3671.53	-5188.04	1762453	440101.3	39°42'21.6	80°13'56.5	6355.78	305.287	3.3	-0.59	3.25
14717	87.88	323.83	8277.81	6121.5	3746.71	-5244.36	1762397	440176.1	39°42'22.3	80°13'57.2	6445.24	305.543	1.43	0.17	1.43
14812	87.88	321.93	8281.33	6216.41	3822.4	-5301.65	1762339	440252.1	39°42'23.0	80°13'58.0	6535.92	305.791	2	0	-2
14906	88.18	316.64	8284.56	6310.04	3893.58	-5362.91	1762278	440323.3	39°42'23.7	80°13'58.8	6627.27	305.98	5.63	0.32	-5.63
15002	88.37	319.72	8287.45	6405.52	3965.08	-5426.88	1762214	440394.8	39°42'24.4	80°13'59.6	6721.08	306.153	3.21	0.2	3.21
15096	87.6	324.03	8290.76	6499.39	4038.97	-5484.86	1762156	440468.7	39°42'25.2	80°14'00.3	6811.53	306.367	4.65	-0.82	4.59
15190	87.08	322.12	8293.12	6593.29	4114.52	-5546.62	1762100	440544.2	39°42'25.9	80°14'01.1	6901.28	306.598	1.11	-0.55	-0.97
15285	87.66	317.41	8295.48	6687.97	4187.47	-5601.26	1762040	440617.2	39°42'26.6	80°14'01.8	6993.49	306.782	6.04	0.61	-6.01
15381	87.42	321.57	8303.61	6783.59	4260.37	-5663.55	1761977	440690.1	39°42'27.3	80°14'02.6	7087.07	306.952	4.34	-0.25	4.33
15476	87.69	321.09	8307.66	6878.42	4334.48	-5722.85	1761918	440764.2	39°42'28.1	80°14'03.4	7179.05	307.14	0.58	0.28	-0.51
15570	87.08	319.55	8311.95	6974.14	4406.74	-5782.8	1761858	440836.4	39°42'28.8	80°14'04.2	7270.5	307.309	1.76	-0.65	-1.64
15665	89.38	320.94	8314.88	7066.91	4479.74	-5843.52	1761797	440909.4	39°42'29.5	80°14'05.0	7363.07	307.474	2.83	2.42	1.46
15760	91.48	323	8314.17	7161.85	4554.56	-5902.04	1761739	440984.2	39°42'30.2	80°14'05.7	7455.07	307.657	3.1	2.21	2.17
15856	91.42	322.22	8311.74	7257.8	4630.81	-5960.32	1761681	441060.5	39°42'31.0	80°14'06.5	7547.83	307.845	0.81	-0.06	-0.81
15951	91.39	320.3	8309.41	7352.67	4704.89	-6019.75	1761621	441134.6	39°42'31.7	80°14'07.2	7640.24	308.01	2.02	-0.03	-2.02
16046	91.54	319.22	8306.93	7447.41	4777.37	-6081.1	1761560	441207.9	39°42'32.4	80°14'08.0	7733.24	308.154	1.15	0.16	-1.14
16141	91.32	319.06	8304.61	7542.07	4849.2	-6143.23	1761498	441278.9	39°42'33.1	80°14'08.8	7826.49	308.286	0.29	-0.23	-0.17
16189	91.32	319.06	8303.51	7589.89	4885.45	-6174.67	1761466	441315.1	39°42'33.5	80°14'09.2	7873.64	308.351	0	0	0

0 Projected MD at TD: 16189'

HOSE AND CASING SECTIONS Ref Wellbore: Fisher 7H AWB Ref Wellpath: Fisher 7H AWP Proj: 16189'

String/Dia	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
24in Cond	25	65	40	25	65	0	0	0.01	-0.04
17.5in Ope	65	1448	1383	65	1447.99	0.01</			

Jarvis MWD <8-3/4> (22562) (2593-4866)*
BHI AT Curve <8-1/2> (6891) (6940-16141)*
Projected MD at TD: 16189*

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