



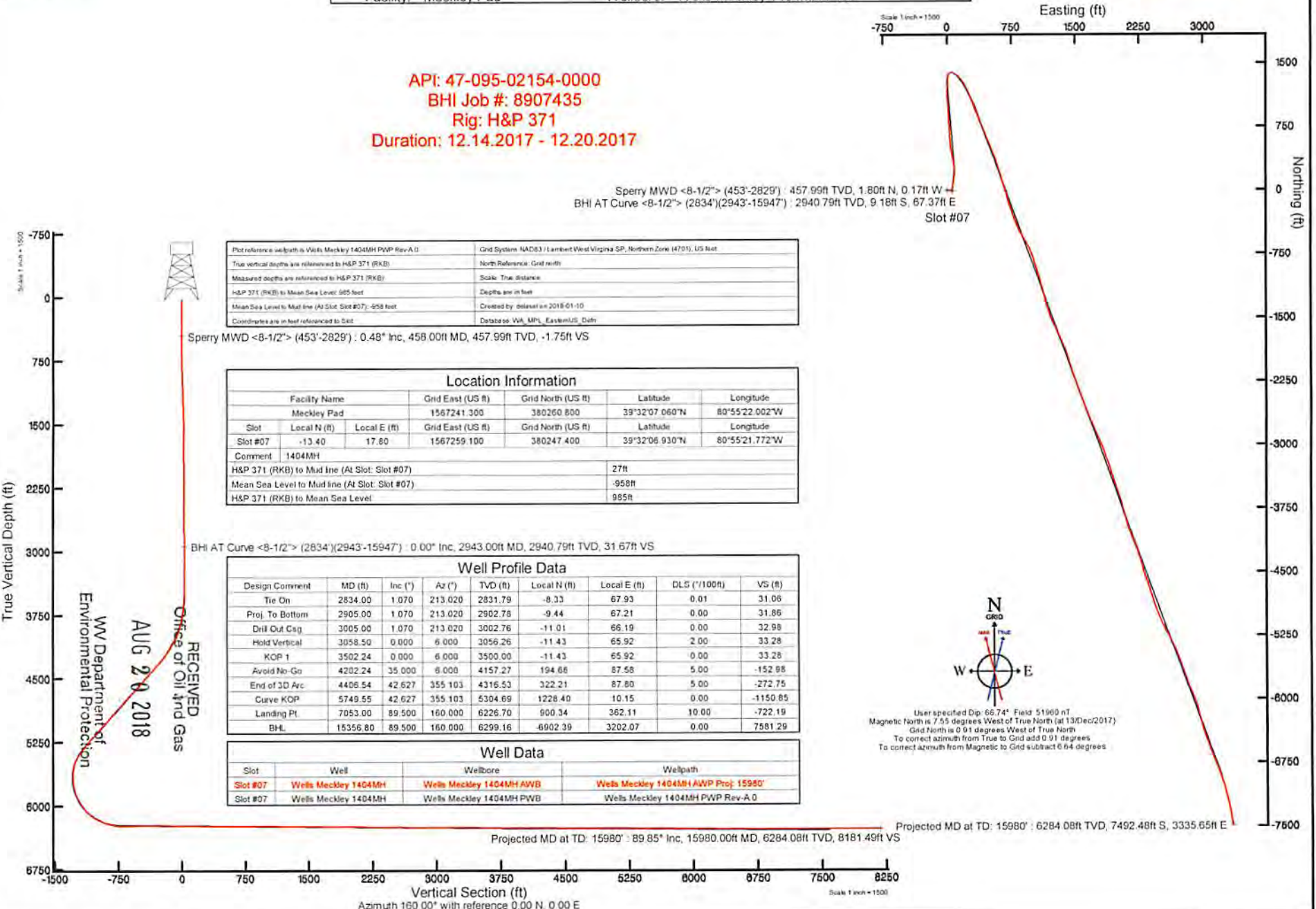
BLUE RIDGE MOUNTAIN RESOURCES

Location: Tyler County, WV Slot: Slot #07
 Field: Tyler Well: Wells Meckley 1404MH
 Facility: Meckley Pad Wellbore: Wells Meckley 1404MH PWB



API: 47-095-02154-0000
BHI Job #: 8907435
Rig: H&P 371
Duration: 12.14.2017 - 12.20.2017

Sperry MWD <8-1/2"> (453'-2829') : 457.99ft TVD, 1.80ft N, 0.17ft W
 BHI AT Curve <8-1/2"> (2834')(2943'-15947') : 2940.79ft TVD, 9.18ft S, 67.37ft E
 Slot #07



Plot reference wellpath is Wells Meckley 1404MH PWB Rev-A.0	Grid System: NAD83 Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to H&P 371 (RKB)	North Reference: Grid north
Measured depths are referenced to H&P 371 (RKB)	Scale: True Distance
H&P 371 (RKB) to Mean Sea Level: 985 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot: Slot #07): -958 feet	Created by: dslawson on 2018-01-10
Coordinates are in feet referenced to Slot	Database: WA_MPL_EastMUSUS_Data

Sperry MWD <8-1/2"> (453'-2829') : 0.48° Inc, 458.00ft MD, 457.99ft TVD, -1.75ft VS

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Meckley Pad	1567241.300	380260.800	39°32'07.060"N	80°55'22.002"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #07	-13.40	17.80	1567259.100	380247.400
			39°32'06.930"N	80°55'21.772"W
Comment	1404MH			
H&P 371 (RKB) to Mud line (At Slot: Slot #07)				27ft
Mean Sea Level to Mud line (At Slot: Slot #07)				-958ft
H&P 371 (RKB) to Mean Sea Level				985ft

BHI AT Curve <8-1/2"> (2834')(2943'-15947') : 0.00° Inc, 2943.00ft MD, 2940.79ft TVD, 31.67ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2834.00	1.070	213.020	2831.79	-8.33	67.93	0.01	31.06
Proj. To Bottom	2905.00	1.070	213.020	2902.78	-9.44	67.21	0.00	31.86
Drill Out Cas	3005.00	1.070	213.020	3002.76	-11.01	66.19	0.00	32.99
Hold Vertical	3058.50	0.000	6.000	3056.26	-11.43	65.92	2.00	33.29
KOP 1	3502.24	0.000	6.000	3500.00	-11.43	65.92	0.00	33.26
Avoid No-Go	4202.24	35.000	6.000	4157.27	194.66	87.58	5.00	-152.88
End of 3D Arc	4406.54	42.627	355.103	4316.53	322.21	87.80	5.00	-272.75
Curve KOP	5749.55	42.627	355.103	5304.69	1226.40	10.15	0.00	-1150.85
Landing Pl.	7053.00	89.500	160.000	6226.70	900.34	362.11	10.00	-722.19
BHL	15356.80	89.500	160.000	6299.16	-6902.39	3202.07	0.00	7581.29

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #07	Wells Meckley 1404MH	Wells Meckley 1404MH AWP	Wells Meckley 1404MH AWP Proj: 15950'
Slot #07	Wells Meckley 1404MH	Wells Meckley 1404MH PWB	Wells Meckley 1404MH PWB Rev-A.0



User specified Dip: 66.74° Field: 51960 nT
 Magnetic North is 7.55 degrees West of True North (at 13/Dec/2017)
 Grid North is 0.91 degrees West of True North
 To correct azimuth from True to Grid add 0.91 degrees
 To correct azimuth from Magnetic to Grid subtract 6.64 degrees

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Projected MD at TD: 15980' : 89.85° Inc, 15980.00ft MD, 6284.08ft TVD, 8181.49ft VS

Vertical Section (ft) Azimuth 160.00° with reference 0.00 N, 0.00 E Scale 1 inch = 1500

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes
Software System: WellArchitect® 5.1

REFERENCE WELLPATH IDENTIFICATION

Operator BLUE RIDGE MOUNTAIN RESOURCES
Area Tyler County, WV
Field Tyler
Facility Mckley Pad
Slot Slot #07
Well Wellbore Mckley 1404MH
Wellbore Wellbore Mckley 1404MH AWB
Wellpath Wellbore Mckley 1404MH AWP Proj: 15980
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Refe Grid
Scale 0.999942
Convergen 0.91" West
Software WellArchitect® 5.1
User Defacet
Report Gen 10/Jan/2018 at 10:55
DataBase: WA_MPL_EasternUS_Defn/ev1120.xml

Table with 7 columns: Wellpath, Local, North, Local East, Easting, Northing, Latitude, Longitude. Rows include Slot Locati, Facility Ref, and Field Refer.

WELLPATH DATUM

Calculator Minimum curvature
Horizontal Slot
Vertical Re H&P 371 (RKB)
MD Refere H&P 371 (RKB)
Field Vertk Mean Sea Level
H&P 371 (f 27.00ft)
H&P 371 (f 985.00ft)
H&P 371 (f 27.00ft)
Section GH N 0.00, E 0.00 ft
Section Az 160.00°

WELLPATH DATA 1 = interpolated/extrapolated station

Main data table with columns: MD, Inclination, Azimuth, TVD, Vert Sect, North, East, Grid East, Grid North, Latitude, Longitude, Closure Dc, Closure Dn, DLS, Build Rate, Turn Rate, Comments. Contains multiple rows of well path data.

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14345	90.03	156.05	6282.61	6553.4	-5930.85	2865.98	1570125	374316.9	39°31'08.7	80°54'44.0	6587.02	154.209	2.58	0.19	-2.57
14440	89.88	159.98	6282.68	6648.32	-6018.92	2901.53	1570160	374228.8	39°31'07.9	80°54'43.5	6681.79	154.263	4.14	-0.16	4.14
14534	89.91	164.21	6282.86	6742.24	-6108.35	2930.43	1570189	374139.4	39°31'07.0	80°54'43.1	6774.91	154.371	4.5	0.03	4.5
14629	89.97	166.9	6282.96	6836.78	-6200.34	2954.12	1570213	374047.4	39°31'06.1	80°54'42.8	6868.12	154.525	2.83	0.06	2.83
14723	89.91	166.89	6283.05	6930.1	-6291.89	2975.44	1570234	373955.9	39°31'05.2	80°54'42.5	6959.96	154.691	0.06	-0.06	-0.01
14817	90.09	161.01	6283.05	7023.84	-6382.19	3001.41	1570260	373865.6	39°31'04.3	80°54'42.1	7052.72	154.813	6.26	0.19	-6.26
14911	89.94	158.16	6283.03	7117.83	-6470.27	3034.2	1570293	373775.5	39°31'03.4	80°54'41.7	7146.38	154.876	3.04	-0.16	-3.03
15005	90.15	161.37	6282.96	7211.81	-6558.46	3066.71	1570326	373689.3	39°31'02.5	80°54'41.3	7240.03	154.939	3.42	0.22	3.41
15099	89.91	159.99	6282.91	7305.8	-6647.16	3097.81	1570357	373600.6	39°31'01.7	80°54'40.9	7333.57	155.013	1.49	-0.26	-1.47
15193	89.91	157.69	6283.05	7399.78	-6734.82	3131.73	1570391	373513	39°31'00.8	80°54'40.4	7427.35	155.061	2.45	0	-2.45
15288	90	157.21	6283.13	7494.68	-6822.56	3168.17	1570427	373425.3	39°31'00.0	80°54'39.9	7522.27	155.091	0.51	0.09	-0.51
15381	89.94	162.54	6283.18	7587.65	-6909.85	3200.15	1570459	373338	39°30'59.1	80°54'39.5	7614.92	155.15	5.73	-0.06	5.73
15475	89.85	162.33	6283.35	7681.56	-6999.46	3229.52	1570487	373248.4	39°30'58.2	80°54'39.1	7708.17	155.238	0.24	-0.1	-0.22
15570	89.97	164.72	6283.5	7776.38	-7090.56	3255.46	1570514	373157.3	39°30'57.3	80°54'38.8	7802.18	155.339	2.52	0.13	2.52
15664	89.85	167.77	6283.65	7869.81	-7181.85	3277.81	1570537	373066	39°30'56.4	80°54'38.5	7894.49	155.468	3.25	-0.13	3.24
15758	89.94	169.04	6283.82	7962.8	-7273.93	3296.7	1570566	372973.9	39°30'55.5	80°54'38.2	7986.13	155.619	1.35	0.1	1.35
15853	90	170.15	6283.87	8056.47	-7367.37	3313.86	1570573	372880.5	39°30'54.6	80°54'38.0	8078.35	155.782	1.17	0.06	1.17
15947	89.85	170.1	6283.99	8149	-7459.97	3329.98	1570589	372787.9	39°30'53.7	80°54'37.7	8169.45	155.945	0.17	-0.16	-0.05
15980	89.85	170.1	6284.08	8181.49	-7492.48	3335.65	1570595	372755.4	39°30'53.4	80°54'37.7	8201.46	156.001	0	0	0

0 Projected MD at TD: 15980'

HOLE AND CASING SECTIONS Ref Wellbore: Wells Meckley 1404MH AWB Ref Wellpath: Wells Meckley 1404MH AWP Proj: 15980'

String/Diag	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]
20in Condi	27	100	73	27	100	0	0	0.05	0
17.5in Ope	100	400	300	100	400	0.05	0	1.35	-0.13
13.375in C	27	400	373	27	400	0	0	1.35	-0.13
12.25in Op	400	2882.21	2482.21	400	2880	1.35	-0.13	-8.92	67.55
9.625in Ca	27	2882.21	2855.21	27	2880	0	0	-8.92	67.55
8.5in Open	2882.21	15980	13097.79	2880	6284.08	-8.92	67.55	-7492.48	3335.65
5.5in Casing	27	15980	15953	27	6284.08	0	0	-7492.48	3335.65

TARGETS

Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			
1404MH B	6283.13	-7511.12	3365.18	1570624	372736.7	39°30'53.2	80°54'37.3	point	

WELLPATH COMPOSITION Ref Wellbore: Wells Meckley 1404MH AWB Ref Wellpath: Wells Meckley 1404MH AWP Proj: 15980'

Log Name/	Start MD	End MD	Pos Unc	Model
	[ft]	[ft]		
01_Sperry	27	2834		ISCVSA MWD, Rev. 4 (Standard)
02_BH AT	2834	15947		BHI AutoTrak Curve (Short)
Projection	15947	15980		Blind Drilling (std)

COMMENTS

Wellpath general comments
 API: 47-095-Q2154-0000
 BHI Job #: BS07435
 Rig: H&P 371
 Duration: 12.14.2017 - 12.20.2017
 Sperry MWD <B-1/2> (453'-2829')
 BHI AT Curve <B-1/2> (2834'-(2943'-15947'))
 Projected MD at TD: 15980'

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