

BLUE RIDGE MOUNTAIN RESOURCES

Location: Tyler County, WV

Field: Tyler Well: Wells Meckley 1405MH Facility: Meckley Pad Wellbore: Wells Meckley 1405MH PWB



3750

3000

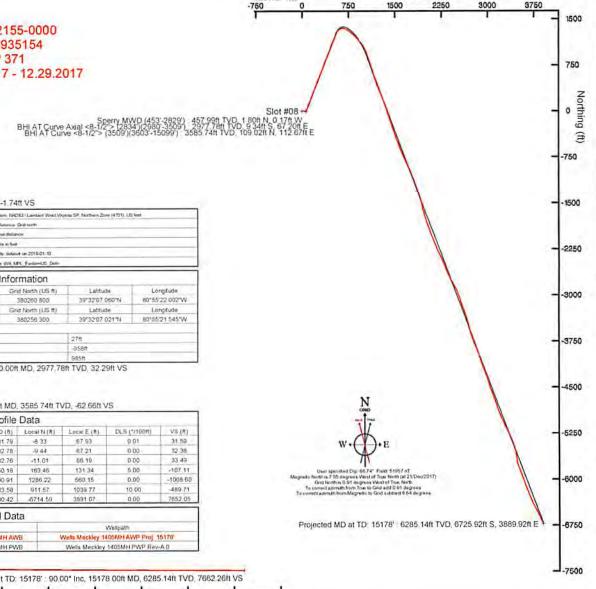
Easting (ft)

1500

750



Duration: 12.23.2017 - 12.29.2017

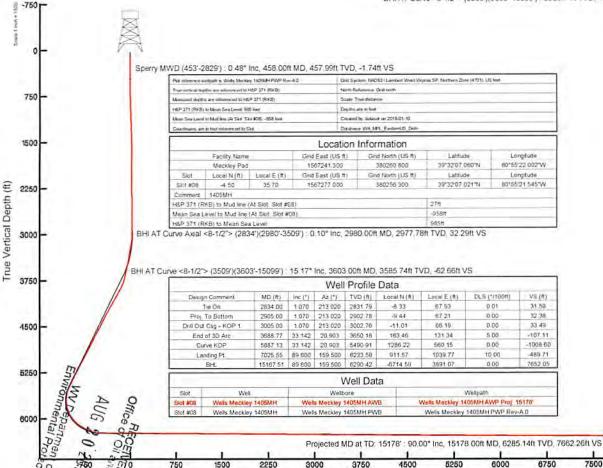


7500

8250

Scale 1 inche 1500

Scale Trinch # 1500



Vertical Section (ft)

Azimuth 159.50° with reference 0.00 N, 0.00 E

ACTUAL WELLPATH REPORT (CSV version) Prepared by Baker Hughes Software System: WellArchitect® 5.1

REFERENCE WELLPATH IDENTIFICATION
Operator BLUE RIDGE MOUNTAIN RESOURCES
Area Tyter County, WV
Field Tyter Meckley Pad Siot #03 Wells Meckley 1405MH Facility Slot Well Wellbark Wells Mcckley 1405k/H AWB Welpath Wells Mckley 1405k/H AWP Proj: 15178' Sidetrack (none)

REPORT SETUP INFORMATION
Projection NADBJ / Lumbert West Virginia SP, Korthern Zone (4701), US feet
Kortin Refe Grid
Scale 0.999942
Convergen 0.91* West
Software 5 WestArchitect* 5.1
User Delayet
Report Ger 10/Jan/2018 at 11:46
DataBase/: WA_MPR_EstzerNJS_Defn/ev1120.cm1

 WELLPATH Local North Local East
 Easting (US hg)
 Northing
 Latitude
 Longhude

 Sot Locase
 -4.5
 13.7
 1567227
 360256.1
 39°12'07.0
 80°55'21.545'W

 Facility Ref
 1567248
 180260.3
 39°12'07.0
 80°55'22.002'W

 Field Refer
 600000
 0
 38°24''03.3
 84°16'35.572'W

WELLPATH DATUM WELLPATH DATUM
Calculation Minimum curvature
Horizontal Slot
Vertical Ro H&F J71 (RKB)
MDR Refere H&F J71 (RKB)
Field Vertic Mean Soa Level
H&F J71 (127.00T
H&F J71 (127.00T
H&F J71 (127.00T
H&F J71 (127.00T
H&F J71 (127.00T) Section On N 0.00, E 0.00 ft Section Azi 159.50"

WELLPATH DATA * - interpolated/extrapolated station

	MD .	Inclination	Azimuth	TVD	Vert Sect	North E.	ast	Grid East	Grid North Latitude	Longitude	Cosure Dis	Closure Dir	OLS	Build Rate	Turn Rate	Comments
	[ft]		П	[ft]	[#]	[ft] [f		[US ft]	(US ft)			n	(*/100ft)	[*/100h]	[*/100h]	
•	• •		354.56			0		1567277	380256.3 39"32'07.0	80"35"21.5		0) 0	0	
	2	7 0	354.56	27	. 0	0	0	1567277	180256.3 19"32'07.0	50"55"21.5	. 0	0	0	0	0	
	451	0.48	354.56	457.99	-1.74	1.8	-0.17	1567277	380258.1 39"32"07.0	80"55"21.5	1.81	354.56	0.11	0.11	-1.26	Sperry MNVD (453'-2829')
	554	3.56	92.46	549.98	-163	2.13	1.04	1567278			2.37	26.132	1.84		106.41	
	64		95.53				4.63					68.234	1.45		3.34	
	73		93.88			1.44	9.69					81.569	0.46		-1.77	
	821		94.96				15.38					86.309	0.48		1.17	
	91		93.38				21.14					88.447	0.13		-1.82	
	100		90.81 85.39			0.3S 0.52	27,28 33,76					89.255 89.12	0.45		-2.92 -5.08	
	1170		84.58			L.08	40.79					68.483	0.67		-2.08	
	126		91.05				47.84					89.357	0.87		7,44	
	135		96.07				54.56					88 999	0.44		5.7	
	143		104.02				59.92	-				89.911	1.97		9.14	
	152		123.31			094	62 75	1567340				90.858	1.87		22.17	
	161	2 0.5	143.59	1609.87	23.99	-1.77	63.77	1567341	380254.5 39"32"07.0	E0"55"20.7	638	91.59	0.93	-0.87	23.26	
	170	0.55	171.58	1697.87	24.77	-2.5	64.06	1567341	350253.8 39"32"07.0	50"35"20.7	64.31	92.232	0.29	0.06	31.85	
	178		165.04				54.16				64.24	92.727	0.4		-7.52	
	197		114.12				64.47					92.949			-58.54	
	196		103.99			-3.53	65.09					93.103	0.19		-11.63	
	204		98.93				65.97					93.211	0.23		-5.75	
	213 222		101.45 87.96				66.95 68.01					93.317 93.336	0.04		2.9 -15.51	
	231		70.69				69.03					93.13	0.1			
	239		75.13				69.92					92.864	0.14		5.1	
	248		169.68				70.38					92.945	0.70		108.68	
	257		198.89				70.23					93.59	0.54		33.19	
	266	0 1.02	209.85	2657.82	29.66	5.62	69.66	1567347	380250.7 39"32'06.9	80"55'20.6	69 68	94.616	0.34	5 0.3	12.6	
	274	7 1.07	213.68	3 2744.81	30.63	6.97	68.82	1567346	380249.3 39*32*06.9	80"55"20.6	69.17	95.784	0.1	0.06	4.4	
	283	4 1.07	213.02	2831.79	31.59	8.33	67.93	1567345	380248 39"32"06.9	80"55'20 (68.44	96.99	0.0	. 0	-0.76	
	298		4.6				67.2			80755'20.6		97.917	0.75			BHI AT Curvo Azial <8 1/2"> (2934")(2980"-3509")
	103		10.58				67.5					96 497	5 (
	313		9.5				69.47					86 921	7.8		-1.06	
	322		21.57				74.96					73.249	3.9		12.77	
	332 341		35.58 22.91				85 99 97.83					63.68 56.897	1.9 3.5		149	
	350		15.5				105.75						2.4			
	360		18.2				112.67					45 943	1.4		2.89	
	369		21.3				121.4					42.343	1.7		3.32	
	379	23.47	19.43	3764	106 67	163.44	132.5	1567410	380419.7 39"32"03.6	50735719.8	210 42	39.039	7.3	2 7.29	-2.05	
	388	6 32.13	16.2	3848.36	5 -141.5	205.62	145.9	1567421	350461.9 39"32"09 (E0"55"19.7	252.13	35.359	9.2	5 9.12	- 3.16	
	398		22.0	3 3925.9			163.4			80"55"19.5		32.585			6.18	Office of Oil and Gas
	407		22.63				184.8						0.3		0.63	Or REO
	416		19.89				204.90					29.688	2.0		-2.9	Office SCEIVED
	426 435		17.8				222.85					28.41 27.402	1.6		-2.21	or Oil and
	445		23.0				261.1					26.845	1.S. 2.0			AUG 20 2018
	454		23.6				282.7					26.545	0.3			AUG
	463		22.34				304.1					26.262	0.8			~ V Z A 1_
	473		19.1				323.17						2.0		-3.47	אוט איי איי איי איי איי איי איי איי איי אי
	492	7 33.29	18.6			716.41	340.3	1567617	7 380972.7 39"32"14.1	B0°55'17.	793.08	25.401	1.5	4 -1.52	-0.44	En. WDa.
	492		20.9				358.1					25.054	1.6	9 1.05	2.18	Environmental Protection
	501		24.0				378.7					24.902			3.26	""ental pent of
	511	-	24.4	_			401.4						0.		0.48	- rotecti-
	520		20.8				423.4									20100
	\$30 539		18-1				440 G								2.81	
	549						479.8									
	558		20.1				498.8					24.063	0.9			
	567						518.1								2.16	
										. ,				, , ,		

\$960 \$5054 \$5148 \$5148 \$5242 \$5336 \$5431 \$5535 \$5619 \$5711 \$5753 \$5995 \$77089 \$77089 \$77089 \$77089 \$77184 \$77786 \$77786 \$77786 \$77786 \$77788 \$77788 \$77788 \$77788 \$77788 \$77788 \$77788 \$7778 \$7842 \$7778 \$7842 \$7778 \$7842 \$7937 \$78601 \$78601 \$7860	1196 1100 1100 1115 1115 1115 1115 1115 111	2053 1969 11.02 54.06 75.93 94.43 316.05 126.87 113.45 133.14 144.22 154.66 159.93 161.48 162.31 164.29 162.36 157.11 156.35 159.34 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 161.38 162.31 163.31 164.32 164.32 164.32 164.32 164.32 165.32 166.33 166.33 166.33 166.34 166.35 166.35 166.36 166	5390.44 5469.02 5552.96 5538.82 5772.42 5810.04 5892.77 5970.15 6038.94 6097.59 6145.39 6145.39 6135.49 61216.19 62228.99 6228.78 6232.24) 6231.12 6231.13 6231.24) 6231.24) 6231.24) 6231.25 6244.25 6245.27 6245.27 6245.27 6245.27 6245.27 6245.27	-950-48 -989-61 -1020-89 -1021-05 -1041-05 -1041-05 -1030-45 -1001-84 -438-3 -761.78 -681-02 -378-7 -326-1	1215.6 1264.03 1304.25 1317 1348.53 1351.59 1339.08 1319.08 1217.66 1092.45 1092.45 1092.45 1092.45 1093.47 1094.11 220.08 131.46 481.61 393.47 307.12 220.08 131.46 481.91 -137.17 -225.9 -315.53 -404.86 492.36 -580.49 -755.79 -841.05 -925.61 -1099.25	537.24 554 58 573 27 599 21 634 09 672 59 715.12 761.66 810 35 861.05 861.05 971.54 1016.44 1052.21 1083.27 1141.19 1162.21 1195.02 1227.57 1264.71 1300.15 1311.42 1369.79 1451.32 1481.51 1545.12 1545.12 1549.71 1669.71 1669.71 1669.71 1669.71	1567812 1567850 1567876 1567911 1567950 1567992 1568019	331471.8 397279.1 80755149 331503.8 791279.9 8075144 381560.5 3971279.9 8075714 381560.5 3971270.9 8075714 381560.8 791270.4 8075511.3 38160.8 791270.4 8075511.3 38160.8 791270.0 8075712.0 381583.8 791270.0 8075712.0 381583.8 791270.0 8075712.0 381583.8 791270.0 8075712.0 381583.8 7912719.8 8075710.0 381445.7 8712719.8 80755710.0 381445.7 8712719.8 8075570.3 381186.8 7971271.9 8075570.3 381097.9 9971271.5 8075570.3 381097.9 9971271.5 8075570.3 38001.8 3971271.1 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3 38001.8 3971270.3 8075570.3	1329.03 1120.5 1424.68 1460.38 1490.16 1509.7 1513.4 1505.65 1492.5 1478.5 1447.16 1404.52 1171.79 1342.68 1119.14 1283.42 1283.09 131.67 1318.65 1318	23.843 23.727 24.221 25.183 26.456 28.104 30.174 12.571 15.123 38.196 41.647 45.012 45.012 45.012 45.012 45.012 45.012 68.05 72.223 76.15 80.392 68.06 82.205 89.391 89.391 89.391 89.391 91.599 95.517 99.341 102.04 104.692 107.692 107.692 107.692 107.692	1.02 1.41 11.47 10.34 9.82 8.31 12.96 9.9 9.66 7.82 7.4 13.45 16.34 1.34 1.54 1.55 0.88 0.22 1.9 2.06 0.81 3.22 2.61 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47	0 04 -1.32 -10.07 2.57 -1.83 163 7.02 7.41 8.47 9.44 4.52 8.41 15.37 0.3 6.06 -0.06 -0.21 0.14 -0.53 0.17 0.13 0.43 0.40 0.17 0.19 0.43 0.40 0.06 -0.21 0.14 0.06 -0.21 0.14 0.17 0.19 0.13 0.13	182 193 1193 1451 195 195 195 195 195 195 195 195 195 1
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560 15748	59.15 59.48 58.89 59.05 59.17 59.51 59.57	157.1 156.35 159.34 161.79 162.28 161.18 160.28 161.18 162.28 152.57 152.74 158.99 154.2 154.02 154.02 154.02 154.03 166.35 167.47 161.3 167.47	6234.28 6235.29 6235.29 6240.46 6240.46 6242.81 6242.81 6242.81 6244.82 6244.82 6245.21 625.21 625.2	61.35 155.24 249.18 343.14 438.03 531.93 625.89 719.85 814.8 902.76 1002.76 1002.75 1191.74 1285.67 1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	393.47 307.12 220.03 131.45 48.27 -137.17 -225.9 -315.93 -404.26 -580.41 -668.99 -755.79 -841.05 -925.61 -1011.65	1227.57 1264.71 1390.15 1331.42 1360.78 1389.79 1420.3 1451.32 1481.51 1512.63 1545.12 1579.31 1613.66 2649.71	1568505 1568542 1568577 1568603 1568618 1568667 1568697 1568728 1568789 1568789 1568822 1568856 1568891	120649 8 1971211.1 2075505.9 120761.4 1971210.2 8075105.4 120416.4 1971210.3 8075104.9 120187.8 1971209.3 8075104.5 120187.8 1971207.6 5075504.5 120187.8 1971207.6 5075501.7 120119.1 1971205.8 8075501.3 120010.4 1971205.0 8075501.3 120010.4 1971205.0 8075501.3 129761.3 1971204.1 8075502.1 129761.3 1971204.1 8075502.1 129761.3 1971201.3 8075501.2 129761.3 1971201.5 8075501.2	1289.09 1301.47 1318.65 1337.9 1361.4 1390.63 1426.91 1468.8 1514.84 1565.35 1621.82	72.228 76.35 80.392 84.361 88.269 91.989 95.517 98.847 102.04 104.989 107.692 110.179	5.6 0.81 3.22 2.61 0.47 0.42 1.7 0.96 0.61 1.58 1.84 0.23	0.23 0.14 -0.53 -0.1 0.17 0.13 0.43 0.06 -0.06 -0.1 0.26 0.14	-5 6 -0.8 -0.8 -2.61 -0.44 -1.65 -0.96 -1.57 -1.82 -0.18
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842 19917 19	88.89 89.05 89.17 89.57 89.63 59.57 89.63 59.72 89.85 89.72 89.85 89.75 89.85 89.75 89.45 89.43 89.16 89.54 89.54 89.54 89.54	161.79 162.21 161.83 160.28 161.18 161.76 160.28 158.57 158.79 154.02 154.02 154.02 158.55 159.91 160.21 160.21 167.47 166.99 161.3 162.6	6237.29 6219 6240.46 6241.49 6242.15 6243.59 6244.6 6244.6 6244.6 6245.21 6245.21 6246.07 6246.9 6246.07 6246.9 6246.07 6246.9 6246.07 6246.9 6256.9	343.14 418.01 531.91 625.89 719.86 814.8 908.76 1002.76 1096.74 1191.74 1283.67 1179.39 1472.97 1566.8 1660.79 1754.78	131.45 41.13 -48.27 -137.17 -225.9 -315.98 -404.86 -492.86 -580.41 -668.99 -755.79 -841.05 -925.61 -1011.65	1331.42 1360.78 1389.79 1420.3 1451.32 1481.51 1512.03 1545.12 1579.33 1613.66 1649.71 1689.29	1568603 1568618 1568667 1568697 1568728 1568758 1568789 1568822 1568956 1568891	120187.8 39°12'08.5 80°55'04.5 120187.4 18°12'07.6 05°55'04.1 18012'08 39°12'06.7 80°55'03.7 180119.1 39°12'05.8 80°55'03.3 1800104.1 39°12'05.8 80°55'03.3 1800104.1 39°12'04.1 80°55'03.2 39°94.0 3 39°12'04.1 80°55'02.1 39°94.5 39°12'04.1 80°55'02.1 39°94.5 39°12'04.1 80°55'01.2 39°94.5 39°12'03.8 80°55'01.2 39°94.5 39°12'03.8 80°55'01.2 39°94.7 39°12'03.6 80°55'00.8	1337.9 1361.4 1390.63 1426.91 1468.8 1514.84 1565.35 1621.82	84.361 88.269 91.989 95.517 98.847 102.04 104.939 107.692 110.179	2.61 0.47 0.42 1.7 0.96 0.61 1.58 1.84 0.23	0.1 0.17 0.13 0.43 0.06 -0.06 -0.1 0.26 0.14	2.61 0.44 -0.4 -1.65 0.96 0.61 -1.57 -1.82 0.18
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225 19 19 19 19 19 19 19 1	89.57 89.63 89.63 89.48 89.72 89.85 89.85 89.63 89.65 89.78 89.57 89.43 89.38 89.26 89.26 89.54 89.54	160.28 161.18 161.76 160.28 158.57 158.74 158.99 154.2 154.02 158.59 160.23 158.61 161.8	6241.49 6242.15 6242.59 6244.25 6244.6 6244.82 6245.21 6245.74 6246.06 6246.37 6246.37 6246.39 6247.7 6248.59 6247.7 6248.59 6250.71 6250.71 6250.71 6250.71	625.89 719.85 814.8 908.76 1096.75 1191.74 1285.67 1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	-137.17 -225.9 -315.98 -404.86 -492.86 -580.41 -668.99 -755.79 -841.05 -925.61 -1011.65	1420.3 1451.32 1481.51 1512.03 1545.12 1579.33 1613.66 1649.71 1689.29	1568697 1568728 1568758 1568789 1568822 1568956 1568891	180119-1 39"32"05-8 60"55"03-9 180010-4 39"1200-1 60"55"02-9 379940-3 39"1200-1 60"55"02-5 379851-5 39"1201-2 60"55"02-1 379615-5 39"3201-5 60"55"01-2 379675-9 39"32101-5 60"55"01-2 379587-4 39"3200-6 60"55"00-8	1426.91 1468.8 1514.84 1565.35 1621.82	95.517 98.847 102.04 104.989 107.692 110.179	1.7 096 061 158 1.84 0.23	0.43 0.06 -0.06 -0.1 0.26 0.14	-1.65 0.96 0.61 -1.57 -1.82 0.18
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114 (1500) 1	59.57 69.48 69.72 89.85 89.85 89.85 89.75 89.75 89.75 89.78 89.43 89.18 89.2 89.2 89.2 89.2 89.3 89.3 89.3 89.4	161.76 160.28 153.57 153.74 158.9 154.9 154.02 154.02 154.02 158.93 160.23 161.8 167.47 166.99 163.5 162.6 161.8	6242.81 6243.59 6244.25 6244.62 6245.21 6245.74 6246.06 6246.77 6246.99 6247.7 6248.39 6250.71 6250.97 6252.95	814.8 908.76 1002.76 1096.75 1191.74 1285.67 1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	-315.98 -404.86 -492.86 -580.41 -668.99 -755.79 -841.05 -925.61 -1011.65	1481.51 1512.03 1545.12 1579.33 1613.66 1649.71 1689.29	1568758 1568789 1568822 1568856 1568891	379340.3 39°32°04.1 60°55°02.5 379351.5 19°32°01.2 80°55°02.1- 379763.5 19°32°02.3 60°55°01.7 379675.9 19°32°01.5 80°55°01.2 379587.4 19°32°00.6 80°55°00.8	1514.84 1565.35 1621.82	102.04 104.989 107.692 110.179	061 158 184 023	-0.06 -0.1 0.26 0.14	0.61 -1.57 -1.82 0.18
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02	89.72 89.85 89.88 89.63 89.75 89.85 89.78 89.57 89.45 89.45 89.26 89.26 89.54 89.54	158.57 158.74 158.9 155.99 154.2 154.02 158.55 158.93 160.23 161.8 167.47 166.93 162.6 161.83	6244 25 6244 6 6244 82 6245 23 6245 74 6246.06 6246.37 6246.9 6247.9 6249.53 6250.71 6251.97 6252.95	1002.76 1096.75 1191.74 1285.67 1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	-492.86 -580.41 -668.99 -755.79 -841.05 -925.61 -1011.65	1545.12 1579.33 1613.66 1649.71 1689.29	1568822 1568956 1568891	379763.5 39°32'02.3 60°55'01.7 379675.9 39°32'01.5 80°55'01.2 379587.4 39°32'00 6 80°55'00 8	1621.82	107. 69 2 110.179	1.84 0.23	0.26 0.14	-1.82 0.18
(96) 1973 1973 1973 1973 1973 1974 1975 1977 1977 1977 1977 1977 1977 1977	89.85 89.88 89.63 89.75 89.85 89.78 89.57 89.45 89.45 89.26 89.26 89.54 89.54 89.54	158.74 158.9 155.99 154.2 154.02 158.55 158.93 160.23 161.8 167.47 166.93 162.6 161.83	6244.6 6244.82 6245.23 6245.74 6246.06 6246.37 6246.9 6247.7 6248.59 6249.53 6250.71 6251.97 6252.95	1096.75 1191.74 1285.67 1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	-580 41 -668.99 -755.79 -841.05 -925.61 -1011.65	1579.33 1613.66 1649.71 1689.29	1568956 1568891	379675.9 39°32'01.5 80°55'01.2 379587.4 39°32'00 6 80°55'00 8	-	L10.179	0.23	0.14	0.18
691 787 787 787 797 797 797 797 797 797 797	89 88 59 63 89 75 69 85 69 78 89 57 89 45 69 48 89 38 89 38 89 38 89 2 89 54 89 54 89 54 89 54	158.9 154.2 154.02 158.55 158.93 160.23 158.63 167.47 166.99 163.5 162.6 161.83	6244.82 6245.74 6246.06 6246.37 6246.9 6247.7 6248.59 6249.53 6250.71 6251.97 6252.95	1191.74 1285.67 1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	-668.99 -755.79 -841.05 -925.61 -1011.65	1613.66 1649.71 1689.79	1568891	379587.4 39"32'00 6 80"55'00 8					
785 779 779 779 779 779 779 779 779 779 77	59 63 89 75 89 85 89 85 89 85 89 85 89 45 89 48 89 38 89 26 89 54 89 69 89 68	155.99 154.2 154.02 158.55 158.93 160.23 158.61 161.8 167.47 166.99 163.5 162.6 161.83	6245.23 6245.74 6246.06 6246.37 6246.9 6247.7 6248.59 6249.53 6250.71 6251.97 6252.95	1285.67 1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	-755.79 -841.05 -925.61 -1011.65	1649.71 1689.29			1746.83	112.518	017		
9879 977 977 977 977 977 977 977 977 977	89.75 89.85 89.78 89.57 89.45 89.48 89.26 89.26 89.54 89.54 89.54 89.54	154.2 154.02 158.55 158.93 160.23 158.61 161.8 167.47 166.99 163.5 162.6 161.83	6245.74 6246.06 6246.37 6246.9 6247.7 6248.59 6249.53 6250.71 6251.97 6252.95	1379.39 1472.97 1566.8 1660.79 1754.78 1849.77	-841 05 -925.61 -1011 65	1689.29		379500 6 39"31"59 8 80"55"00.3	1814.59	114 614	311	0 27	-3.1
7777 1 1 1 1 1 1 1 1 1	89.85 89.78 89.57 89.45 89.48 89.38 89.26 89.26 89.54 89.54 89.54	154 02 158.55 158.93 160 23 158.61 161.8 167.47 166.99 163.5 162.6 161.83	6246.96 6246.97 6246.9 6247.7 6248.59 6249.53 6250.71 6251.97 6252.95	1672.97 1566.8 1660.79 1754.78 1849.77	-925.61 -1011.65		1568966	379415.3 39"31"38 9 80"54"39.8	1387.03	116.467	191	0.13	-1.9
555 155	89.57 89.45 89.43 89.38 89.26 89.26 89.54 89.69 89.6	158.93 160.23 158.61 161.8 167.47 166.99 163.5 162.6 161.83	6246.9 6247.7 6248.59 6249.53 6250.71 6251.97 6252.95	1660.79 1754.78 1849.77			1569007	379330.7 39"31"58.1 50"54"59.2	1962.35	118.144	022	0.11	-0 19
555 1 1 1 1 1 1 1 1 1	89.45 89.48 89.38 89.26 89.26 89.54 89.69 89.6 89.54	150 23 158.61 161.8 167.47 166.99 163.5 162.6 161.83	6247.7 6248.59 6249.53 6250.71 6251.97 6252.95	1754.78 1849.77	-1099.25	1768.13		379244.7 39"31"57.3 80"54"58.7	2037.09	119.776	4.82	0 07	4 82
550 144 139 139 130	89.43 89.33 89.26 89.26 89.54 89.69 89.6	158.61 161.8 167.47 166.99 163.5 162.6 161.83	6248.59 6249.53 6250.71 6251.97 6252.95	1849.77		1802.21		379157.1 39"31"36 4 50"54"58.3	2111	121.381	0.46	-0.22	0.4
44 19 19 19 19 19 19 19 19 19 19 19 19 19	89.38 89.2 89.26 89.54 89.69 89.6 89.54	161.8 167.47 166.99 163.5 162.6 161.83	6249.53 6250.71 6251.97 6252.95		-1187_34	1835.01	1569112	379069 39"31"55.5 80"\$4"57.8	2185.64	122.905	1.39	013	1.38
.39 .33 .27 .21 .16 .04 .99 .887 .881 .75 .70 .75 .70 .75 .70 .75 .70 .75 .70 .75 .75 .75 .75 .75 .75 .75 .75 .75 .75	89.26 89.54 89.69 89.69 89.6	167.47 166.99 163.5 162.6 161.83	6250.71 6251.97 6252.95		-1276.27 -1364.7	1868 4 1900 23	1569145 1569177	378920.1 39"31"54.7 80"54"57.4 378891.7 39"31"53.8 80"54"57.0	2262.69 2339.5	124.336	1.71	003	-1.71
J3	89.26 89.54 89.69 89.6 89.54	166.99 163.5 162.6 161.83	6251.97 6252.95	1943.75 2038.32	-1364.7 -1456.26	1900.23	1569202	378500.1 39°31°52.9 80°54°56.6	2339.5 2414.03	125.68S 127.102	3.4 5.97	-0.11 -0.19	3.39 5.97
727 \$21 \$21 \$16 \$106 \$199 \$293 \$881 \$575 \$575 \$570 \$64 \$359 \$52 \$47 \$41 \$41 \$42 \$42 \$42 \$42 \$42 \$42 \$42 \$42	89.54 89.69 89.6 89.54	163.5 162.6 161.83	6252.95	2131.46	-1547.93	1946.16	1569223	178703.5 39°31'52.0 80°54'56.3	2486.69	128.498	0.51	0.06	0.51
21 12 12 12 12 12 12 12 12 12 12 12 12 1	89.69 89.6 89.54	162.6 161.83		2224.97	1638.81	1970 1	1569247	378617.6 39"31"31.1 80"54"36.0	2562.61	129.755	3.72	0.3	3.71
16 10 10 10 10 10 10 10 10 10 10 10 10 10	89.6 89.54	161.83	6251.58	2318.78	-1728.72	1997.5	1569274	378527.7 39"31"50 2 80"54"55.7	2641.68	130.874	0.97	0.16	-0.96
04 199 193 187 181 175 170 164 159 152 M7 141 135 129		141 16	6254.17	2413.67	-1819-18	2026.52	1569303	378437.2 39"31"49.3 80"54"55.3	2723.27	131.914	0.82	0.09	-0.81
199 :: 193 :: 1987 :: 1981 :: 1975 :: 1976 :: 1976 :: 1976 :: 1976 :: 1976 :: 1976 :: 1976 :: 1976 :: 1976 :: 1977	89.48		6254.B8	2507.61	-1908.34	2056.28	1569333	378348.1 39"31"48.4 60"54"54.9	2805.36	132.863	0.62	0.06	0.62
193 187 181 175 170 164 159 152 141 135 129 123		159.28	6255.68	2601.6	-1996.81	2088.02	1569365	378259.6 39"33"47.6 80"54"54.4	2589.13	133.721	2.1	-0.06	-2.1
987 981 1775 1770 1764 159 152 141 115 129 123	89.63	158.52	6256.42	2696.59	-2035.44	2122.22	1569399	378171 39'31'46.7 80'54'54.0	2975.37	134.499	0.82	0.16	-0.8
481 575 670 764 359 952 047 141 235 329	89.51 89.48	157.5 157.03	6257.13 6257.95	2790.55 2834.48	·2172.59 -2259.29	2157.41 2193.74	1569434 1569471	378083 8 39"31"45.8 80"54"53.5 377997.2 39"31"45.0 80"54"53.0	3061.8 3149.11	135.201 135.843	1.09 0.5	-0.13 -0.03	-1.09 0.5
575 570 764 359 952 947 141 235 129	89.45	155.52	6258.83	2978.32	-2259.29 -2345.34	2231.56	1569503	377911.1 39°31°44.1°80°54°52.5°	3237.35	135.643	1.61	-0.03	-1.61
70 664 159 152 M7 141 135 129	89.57	155.92	6259.64	3072.11	-2431.02	2270.21		377825.4 39"31"43.3 80"54"52.0	3326.21	136.959	0.44	0.13	0.43
764 959 952 947 141 215 129	89.63	159.4	6260.3	3167.05	-2518.87	2306.31		377737.6 39"31"42.4 80"54"51.6	3415.23	137.522	3.66	0.06	3 66
52 147 141 135 129	89.42	157.29	6261.08	3261.02	-2606.23	2341		377650.2 39"31"41.6 80"54"51.1	3503.24	138.069	2.26	0.22	-2.34
047 141 235 129 423	89.57	152.95	6261.92	3355.71	-2692.39	2380.95	1569658	177564.1 39"31"40.7 80"54"50.6	3594.15	138.513	4.57	0.16	-4.57
141 235 129 423	89 42	149.38	6262.74	3447.71	-2773.84	2425.8		377482.6 39"31"39.9 60"54"50.0	3684.93	138.829	3.84	0.16	3 84
135 129 123	89.45	150.41	6263.67	3541.38	-2856.02	2473.45	1569750	377400.5 39"31"39.1 80"54"49.4	3778.2	139.106	1.03	0.03	1 05
129 123	89 48	158.23	6264.55	3634.92	-2940.67	2514.15	1569791	377315.8 39"31"38.3 60"54"48.8	3868.91	139.471	8.32	003	8.32
123	89 42	163 55	6265.46	3728.85	-3029.45	2544.91	1569822	377227 39°31'37.4 50°54'48.4	3956.53	139.968	5.66	-0.06	3.66
	89.6 89.57	159.89 159.69	6266.94	3822.76 3916.76	-3118.69 -3206.9	2574.39 2606.86		377137.8 39°31°36.6 80°54′48.0 377049.6 39°31°35.7 80°54′47.6	4043.97 4132.79	140 461 140 893	3.9 0.22	Q 19 -Q 03	-3.89 -0.21
	89.51	160.56	6267.7	4011.75	-3296.24	2639.15	-	376960.3 39"31"34.8 80"34"47.2	4222.6	141.317	0.92	-0.06	0.21
	89.51	164 44	6268.51	4105.6	-3385.87	2667.41	1569944	176870 6 39"31"31 9 80"54"46.8	4310.35	141.769	413	0	4.13
	89.45	166.41	6269.36	4199.09	3476.83	2691.07	1569968	376779.7 39"31"33.0 80"54"46.5	4396-61	142.76	2.1	0.06	2.1
01	89 66	164.38	6270.1	4293.58	-3568.76	2715 02	1569992	376687.8 39"31"32.1 60"54"46.1	4484.12	142.737	2.15	0.22	-2.14
	89.38	161.87	6270.89	4387.33	-3658.7	2742.3			4572.34	143.147	2 69	0.3	2 67
939	89.6	158.33	6271.72	4481.35	-3747.07	2774.29		376509.5 39"31"30 4 80"54"45.3	4662.32	143.484	3.77	0.23	-3.77
	89.57	157.5	6272.4	4575.31	-3834.17	2809 63		376422.4 39"31"29.5 80"54"44.9	4753.41	143.766	0 89	-0.03	-0.88
	89 63	158.91 163.04	6273.07 6273.77	4670.28 4764.23	-3922.37 -4011.22	2844.9 2875.54		376334.2 39°31°28.7 60°54°44.4 376245.3 39°31°27.8 80°54°44.0	4845.46 4935.44	144.047 144.364	1.49	0 06 -0.13	1.48 4.39
	89.51 89.35	161.31	6274.72		4101.65	2904.62		376154.9 39'31'26.9 80'54'43.6	5025.96	144.695	1.83	-0.13 -0.17	-1.82
	89.38	158.96	6275.76	4953.1	4190.04	2936.55		376066.5 39"31"26.0 80"54"43.2	5116.62	144.976	2.5	0.03	-2.5
	89.66	157.58	6276.55	5047.07	4277.36	2971.35	1570248	375979 2 39"31"25.2 80"54"42.7	\$203.14	145.213	1.5	0.3	-1.47
	B9.45	163.21	6277.28	5141.02	4365.87	3002.88		375890.7 39"31"24.3 80"54"42.3	5298.88	145.479	5.99	-0.22	5.99
	89.57	163.4	6278.09	5235.81	4456.86	3030.17		375799.7 39"31"23.4 80"54"41.9	5389.39	145.789	0.24	0.13	0.7
	69.97	159.36	6278.47	5329.74		3060.18		375710.7 39"31"22.5 20"54"41.5	5479.97	146.053	4.32	0.43	4.1
932	90.4	158.97	6278.16	5423.73	-4633.78	3093.61		375622.8 39*31*21.7 80*54*41.1	5571.56	146.272	0.62	0.46	-0.41
	89.69	161.48	6278.09	\$517.72 \$611.66	-4722 22 -4911 35	3125.43		375534.4 39°31'20.8 80°54'40.7	5662.83 5751.60	146.501	2.77	-0.76 0.03	2.67
	89.72 89.78	161.45 159.14	6278.57 6278.98	5611.66 5705.65	-4811.35 -4899.84	3155.29 3186.98		375445.2 39°31'19.9 80°54'40.3 375356.8 39°31'19.0 80°54'39.8	5753.69 5845.11	146.743 146.959	0.05 2.46	0.06	-0.01
	89.78 89.82	157.16	6279.31	5799.61	4987.03	3221.97		375269.5 39'31'18.2 80'54'39.4	5937.34	145.959	2.46	0.04	-2.11
	89.78	156.03	6279.64	5893.49		3259.31		375183.3 39'31'17.3 80'54'38.9	6030.08	147.282	1.2	-0.04	-1.7
	89.72	154.5	6280.05		-5158.71	3298.64		375097.9 39'31'16.5 80'54'38.4	6123.18	147.404	1.63	0.06	1.6
	89.82	154.12	6280.43	6030.B5	-5243.42	3339.38		375013.2 39"31"15.7 80"54"37.8	6216.51	147.508	0.42	0.11	0.4
685	89.6	156.93	6280.91	6175.61	-5329.88			374926.7 39'31'14.8 60'54'37.3	6110.58	147.628	2.97	0.23	2.96
	89.63	159.37	6281.54	6269.57				374839.5 39'31'14.0 60"54'36.8	6401.02	147.782	2.6	0.03	2.6
873	89.72	165.84	6282.03	6363.38		3441.81		374749.9 39"31"13.1 80"54"36.5	6493.83	147.994	6.88	0.1	6.81
	90 22	372.5	6282.12	6455.99	-5599.04	3459 46		374557.6 39"31"12.2 80"54"36.2	6581.57	148.289	7.11	0.53	7.09
406 <u>2</u> 4156	89.75 89.75	171.21 159.83	6282.15 6282.56	6548.79 6642.11	-5693.03 -5783.95	3472 92 3496.34		374563.6 39°31°11.3 80°54°36.0 374472.7 39°31°10.4 80°54°35.7	6663.76 6758.59	143.616 143.847	1 45 12.05	-0.49	-1.30
4156 4251	89.82	159.83	6282.92	6737.11	-5872.87	3529.8		374381.8 39°31°09.5 60°54°35.3	6852.01	148.993	1.06	007	101
4345	89.91	160.36	6283.14	6831-11	5960.98	3562.53		174295.7 19"31"03.6 EO"54"34 B	6944.42	149.136	1.58	0.1	15
4440	90	161.16	6283.21	6926.09	6050.67	359184	1570371	374206 39"31"07.7 80"54"34.4	7037.49	149.292	0.85	0.09	0.8
4534		157.54	6283.26	7020.07	6138.62	362698		374118.1 39"31"06 9 80"54"34 0	7130.05	149.423	3.85	-0.06	-3.85
4528	89.94	158.54	6283.36	7114.04	-6225.8	3662 13		374030.9 39"31"06.0 80"54"33.5	7223	149.535	1 06	0	10
4722	89.94 89.94	158.43	6283 64	7208.02		3696 62		373943.4 19"31"05.2 50"54"33.1	7313.88	149.65	0.27	023	01
4816	89.94 89.94 89.72	155.49	6284.15	7301.92	-6399.73	3733.42	1571010		7409.11	149.742	3.11	0.05	-3 11 4 01
1910 5005	89.94 89.94 89.72 89.66		6284.63 6284.99	7395.32 7499.6	6481.59 6567.83	3775.83 3819.7		373773.1 39°31°01.5 80°54°32.0 373658.9 39°31°02.7 80°54°31.4	7502.92 7597.8	149.785 149.819	4.93 1.43	0.1 0.07	-4.9) 3.4)
005 099	89.94 89.94 89.72 89.66 89.75	150.56		7489.6 7583.35		3819.7 3858.76		373603.4 39°31°01.8 80°54°30.9	7597.8 7691.34	149.819	2.83	0.07	2.83
78	89.94 89.94 89.72 89.66	150.86 154.12 156.77	6285.14		6725.92	3889.92			7769.78				

| HOLE AND CASING SECTIONS | Ref | Welliparis: Wells | Mechanism |

13.375in C.	27	400	373	27	400	0	0	1.35	-0.13
12.25in Op	400	2882.22	2482.22	400	2880.01	1.35	4.13	-8.95	67.52
9.625in Car	27	2882.22	2855.22	27	2880.01	0	0	-8.95	67.52
3.5in Open	2882.22	15177	12294.78	2880.01	6235.14	-8.95	67.52	-6725	3889.53
5.5in Casin	27	15177	15150	27	6285.14	0	0	6775	3389.53

TARGETS

TARRELTS

Name TVD North East Grid fast Grid North Latitude Longitude Shape

[M] [M] [M] [M] [M] [W5 M] [U5 M]

1405A/HBI 6230.42 -6714.59 3891.07 1571168 373542.1 39731701.2 8075470.3 point

 WELLPATH CORPOSITION
 Ref Wellpath Wells Meckley 1405MH AWP Proj: 15178*

 Log Razne/ Start MD
 End MD
 Pos Unc Model

 (n)
 (n)
 (n)

 01_Seeny
 27
 2334 ISCNYSA MWD, Rev. 4 (Standard)

 02_SBH ATC
 2834
 3509 SRI AutoTrak Curve (Astal)

 03_BH ATC
 3509
 SKI AutoTrak Curve (Short)

 Projection
 15099
 SKI AutoTrak (Lurve (Short))

COMMENTS

We2path general comments API: 47-095-02155-0000 BHI Job #: 8935154 Rig: HSP 371 Duration: 12.23.2017 - 12.29.2017 Datinet: 12.21.2017 - 12.23.2017 Sheat At Curve Adul 43 1/2 (23.347)(23.807-15.097)* Bid AT Curve 43-1/2 (35.097)(36.017-15.0997)* Projected MO at 10: 15.178"

> Office of Oil and Gas AUG 20 2018 W Department of Environmental Protection