



Jay-Bee Oil & Gas

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Office of Oil and Gas
JUL 28 2025
WV Department of
Environmental Protection

API 4709502884
PAD SLEEPY
WELL 1A
KB ELEV 1140.1
GL ELEV 1112.4

TVD DEPTH @ KB ELEV

FORMATION	TOP	BASE
LITTLE DUNKARD SAND	805	837
DUNKARD SAND	882	995
GAS SAND	1233	1249
1ST SALT SAND	1438	1499
2ND SALT SAND	1624	1713
3RD SALT SAND	1777	1844
LITTLE LIME	1999	2014
PENCIL CAVE	2014	2031
BIG LIME	2031	2108
BIG INJUN SAND	2108	2307
WEIR SAND	2421	2522
BEREA SAND	2654	2680
GORDON SAND	2876	2929
ELIZABETH	3561	3597
WARREN	3615	3645
RILEY	4748	5015
BENSON	5223	5228
ALEXANDER	5460	5499
THREE GR MARKER	6320	6355
BURKETT	6778	6812
TULLY LIMESTONE	6812	6815
HAMILTON SHALE	6815	6876
MARCELLUS	6876	

SS TOP	SS BASE	GL TOP	GL BASE
335	303	777	809
258	145	854	967
-93	-109	1205	1221
-298	-359	1410	1471
-484	-573	1596	1685
-637	-704	1749	1816
-859	-874	1971	1986
-874	-891	1986	2003
-891	-968	2003	2080
-968	-1167	2080	2279
-1281	-1382	2393	2494
-1514	-1540	2626	2652
-1736	-1789	2848	2901
-2421	-2457	3533	3569
-2475	-2505	3587	3617
-3608	-3875	4720	4987
-4083	-4088	5195	5200
-4320	-4359	5432	5471
-5180	-5215	6292	6327
-5638	-5672	6750	6784
-5672	-5675	6784	6787
-5675	-5736	6787	6848
-5736		6848	

Stephen Mccoy
Digitally signed by
Stephen Mccoy
Date: 2025.07.23
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Sleepy 1A Gyro+MWD 0ft-23780ft Survey Geodetic Report



DefinitiveSurvey

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Office of Oil and Gas

JUL 28 2025

WV Department of
Environmental Protection

Report Date: October 22, 2024 - 02:54 PM (UTC 0)
Client: Jay-Bee Oil and Gas
Field: WV Tyler County (NAD 83)
Structure / Slot: Jay-Bee Sleepy Pad / Sleepy 1A
Well: Sleepy 1A
Borehole: Sleepy 1A
UBHI / API / JobNumber: Unknown / 47-095-02884 / O.1056454.06
Survey Name / Version: Sleepy 1A Gyro+MWD 0ft-23780ft / 2
Survey Date: October 10, 2024
Tort / AHD / DDI / ERD Ratio: 240.018 ° / 18559.592 ft / 7.177 / 2.633
Coordinate Reference System: NAD83 West Virginia State Plane, Northern Zone, US Feet
Location Lat / Long: N 39°28'31.73090" , W 80°44'20.14140"
Location Grid N/E Y/X: N 357708.612 ftUS , E 1618787.609 ftUS
CRS Grid Convergence Angle: -0.79°
Grid Scale Factor: 0.99994417(Applied)
Engine Version: 2024.4.0.4

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 156.510 °(Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 1140.100 ft above MSL
Seabed / Ground Elevation: 1112.400 ft above MSL
Magnetic Declination: -7.826°
Total Gravity Field Strength: 999.3289mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51473.391 nT
Magnetic Dip Angle: 66.19°
Declination Date: October 10, 2024
Magnetic Declination Model: HDGM 2024
North Reference: Grid
Total Corr Mag: -7.036°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	TVDSS (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1,140.10		357,708.61	1,618,787.61	N 39°28'31.73"	W 80°44'20.14"
First Gyro Survey	27.70	0.00	0.00	27.70	0.00	0.00	0.00	-1,112.40	0.00	357,708.61	1,618,787.61	N 39°28'31.73"	W 80°44'20.14"
	77.70	0.22	139.60	77.70	0.09	-0.07	0.06	-1,062.40	0.44	357,708.54	1,618,787.67	N 39°28'31.73"	W 80°44'20.14"
	127.70	0.40	253.28	127.70	0.16	-0.20	-0.04	-1,012.40	1.06	357,708.42	1,618,787.57	N 39°28'31.73"	W 80°44'20.14"
	177.70	0.60	287.98	177.70	-0.03	-0.17	-0.46	-962.40	0.71	357,708.45	1,618,787.15	N 39°28'31.73"	W 80°44'20.15"
	227.70	0.75	334.30	227.69	-0.53	0.21	-0.85	-912.41	1.10	357,708.82	1,618,786.76	N 39°28'31.73"	W 80°44'20.15"
	277.70	1.12	8.99	277.69	-1.27	0.99	-0.92	-862.41	1.32	357,709.60	1,618,786.69	N 39°28'31.74"	W 80°44'20.15"
	327.70	1.17	32.97	327.68	-1.96	1.90	-0.56	-812.42	0.96	357,710.51	1,618,787.05	N 39°28'31.75"	W 80°44'20.15"
	377.70	0.82	66.15	377.67	-2.25	2.47	0.04	-762.43	1.32	357,711.08	1,618,787.65	N 39°28'31.76"	W 80°44'20.14"
	415.70	0.89	125.44	415.67	-2.00	2.41	0.53	-724.43	2.23	357,711.02	1,618,788.14	N 39°28'31.75"	W 80°44'20.14"
	464.00	1.52	143.50	463.96	-1.05	1.68	1.22	-676.14	1.51	357,710.29	1,618,788.83	N 39°28'31.75"	W 80°44'20.13"
	495.00	1.87	154.85	494.94	-0.15	0.89	1.68	-645.16	1.56	357,709.50	1,618,789.29	N 39°28'31.74"	W 80°44'20.12"
	587.00	2.48	177.93	586.88	3.21	-2.46	2.39	-553.22	1.15	357,706.15	1,618,790.00	N 39°28'31.71"	W 80°44'20.11"
	681.00	3.66	196.27	680.74	7.41	-7.37	1.62	-459.36	1.62	357,701.24	1,618,789.23	N 39°28'31.66"	W 80°44'20.12"
	773.00	4.73	204.68	772.50	12.19	-13.64	-0.78	-367.60	1.34	357,694.98	1,618,786.82	N 39°28'31.60"	W 80°44'20.15"
Last Gyro Survey	865.00	5.23	217.21	864.15	16.78	-20.42	-4.90	-275.95	1.30	357,688.19	1,618,782.70	N 39°28'31.53"	W 80°44'20.20"
	957.00	5.49	220.08	955.75	20.79	-27.13	-10.27	-184.35	0.41	357,681.48	1,618,777.34	N 39°28'31.46"	W 80°44'20.27"
	1,050.00	5.59	226.41	1,048.32	24.32	-33.66	-16.42	-91.78	0.67	357,674.96	1,618,771.19	N 39°28'31.40"	W 80°44'20.34"
	1,142.00	4.81	227.11	1,139.94	27.15	-39.37	-22.49	-0.16	0.85	357,669.24	1,618,765.12	N 39°28'31.34"	W 80°44'20.42"
	1,234.00	3.57	227.84	1,231.69	29.34	-43.92	-27.44	91.59	1.35	357,664.69	1,618,760.17	N 39°28'31.29"	W 80°44'20.48"
	1,326.00	1.99	237.20	1,323.58	30.52	-46.71	-30.91	183.48	1.78	357,661.91	1,618,756.70	N 39°28'31.27"	W 80°44'20.53"
	1,418.00	0.86	269.40	1,415.55	30.51	-47.58	-32.94	275.45	1.46	357,661.03	1,618,754.67	N 39°28'31.26"	W 80°44'20.55"
	1,511.00	1.16	313.12	1,508.54	29.37	-46.94	-34.32	368.44	0.86	357,661.67	1,618,753.29	N 39°28'31.26"	W 80°44'20.57"
	1,603.00	1.27	306.04	1,600.52	27.64	-45.71	-35.83	460.42	0.20	357,662.91	1,618,751.78	N 39°28'31.27"	W 80°44'20.59"
	1,695.00	0.50	270.44	1,693.50	26.59	-45.10	-37.07	553.40	0.98	357,663.52	1,618,750.54	N 39°28'31.28"	W 80°44'20.61"
	1,788.00	1.25	203.15	1,785.50	27.11	-46.02	-37.86	645.40	1.25	357,662.60	1,618,749.75	N 39°28'31.27"	W 80°44'20.62"
	1,880.00	1.42	179.18	1,877.47	28.85	-48.08	-38.24	737.37	0.63	357,660.53	1,618,749.37	N 39°28'31.25"	W 80°44'20.62"
	1,973.00	0.67	167.14	1,970.45	30.45	-49.76	-38.10	830.35	0.84	357,658.85	1,618,749.51	N 39°28'31.23"	W 80°44'20.62"
	2,065.00	0.38	33.00	2,062.45	30.81	-50.03	-37.82	922.35	1.06	357,658.58	1,618,749.79	N 39°28'31.23"	W 80°44'20.61"
	2,157.00	0.54	2.05	2,154.45	30.25	-49.34	-37.64	1,014.35	0.32	357,659.27	1,618,749.97	N 39°28'31.24"	W 80°44'20.61"
	2,250.00	0.58	30.04	2,247.45	29.58	-48.50	-37.39	1,107.35	0.29	357,660.12	1,618,750.23	N 39°28'31.25"	W 80°44'20.61"
	2,342.00	0.29	4.12	2,339.44	29.09	-47.86	-37.14	1,199.34	0.37	357,660.75	1,618,750.48	N 39°28'31.25"	W 80°44'20.61"
	2,421.00	0.01	73.38	2,418.44	28.92	-47.66	-37.11	1,278.34	0.36	357,660.95	1,618,750.50	N 39°28'31.25"	W 80°44'20.61"
	2,556.00	2.31	221.45	2,553.41	30.07	-49.70	-38.90	1,413.31	1.72	357,658.92	1,618,748.71	N 39°28'31.23"	W 80°44'20.63"
	2,648.00	5.17	230.89	2,645.20	31.97	-53.70	-43.35	1,505.10	3.17	357,654.91	1,618,744.26	N 39°28'31.19"	W 80°44'20.68"
	2,741.00	7.35	231.42	2,737.64	34.65	-60.06	-51.25	1,597.54	2.34	357,648.56	1,618,736.36	N 39°28'31.13"	W 80°44'20.78"
	2,833.00	8.83	229.38	2,828.72	38.26	-68.32	-61.21	1,688.62	1.64	357,640.29	1,618,726.40	N 39°28'31.05"	W 80°44'20.91"
	2,925.00	10.32	228.14	2,919.44	42.94	-78.42	-72.71	1,779.34	1.63	357,630.20	1,618,714.90	N 39°28'30.95"	W 80°44'21.05"
	3,018.00	11.61	226.59	3,010.74	48.75	-90.41	-85.71	1,870.64	1.42	357,618.21	1,618,701.90	N 39°28'30.83"	W 80°44'21.22"

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3,110.00	12.83	227.56	3,100.65	55.23	-103.67	-99.98	1,960.55	1.34	357,604.95	1,618,687.64	N 39°28'30.69"	W 80°44'21.40"
3,202.00	14.30	228.97	3,190.09	61.97	-118.02	-116.09	2,049.99	1.64	357,590.60	1,618,671.53	N 39°28'30.55"	W 80°44'21.60"
3,295.00	15.22	231.81	3,280.02	68.53	-133.11	-134.35	2,139.92	1.26	357,575.51	1,618,653.27	N 39°28'30.40"	W 80°44'21.83"
3,387.00	16.34	234.67	3,368.55	74.25	-148.06	-154.40	2,228.45	1.48	357,560.56	1,618,633.22	N 39°28'30.25"	W 80°44'22.08"
3,479.00	17.31	233.81	3,456.61	79.91	-163.62	-176.00	2,316.51	1.09	357,545.00	1,618,611.62	N 39°28'30.09"	W 80°44'22.36"
3,571.00	18.76	233.23	3,544.09	86.32	-180.56	-198.90	2,403.99	1.59	357,528.06	1,618,588.72	N 39°28'29.92"	W 80°44'22.65"
3,664.00	21.48	232.97	3,631.40	93.74	-199.77	-224.48	2,491.30	2.93	357,508.85	1,618,563.14	N 39°28'29.73"	W 80°44'22.97"
3,756.00	23.98	232.02	3,716.25	102.36	-221.42	-252.67	2,576.15	2.75	357,487.20	1,618,534.96	N 39°28'29.51"	W 80°44'23.32"
3,848.00	25.32	228.45	3,799.87	113.14	-245.98	-282.13	2,659.77	2.18	357,462.65	1,618,505.50	N 39°28'29.26"	W 80°44'23.70"
3,940.00	26.40	226.23	3,882.66	126.33	-273.18	-311.62	2,742.56	1.58	357,435.45	1,618,476.01	N 39°28'28.99"	W 80°44'24.07"
4,032.00	26.86	225.07	3,964.90	141.02	-302.01	-341.11	2,824.80	0.75	357,406.62	1,618,446.52	N 39°28'28.70"	W 80°44'24.44"
4,125.00	27.97	225.20	4,047.46	156.62	-332.21	-371.46	2,907.36	1.20	357,376.42	1,618,416.18	N 39°28'28.40"	W 80°44'24.82"
4,217.00	28.47	226.89	4,128.52	171.83	-362.40	-402.77	2,988.42	1.02	357,346.23	1,618,384.86	N 39°28'28.09"	W 80°44'25.21"
4,308.00	28.28	225.72	4,208.59	186.76	-392.27	-434.04	3,068.49	0.65	357,316.36	1,618,353.59	N 39°28'27.80"	W 80°44'25.61"
4,401.00	28.24	225.81	4,290.50	202.36	-422.99	-465.59	3,150.40	0.06	357,285.65	1,618,322.05	N 39°28'27.49"	W 80°44'26.00"
4,493.00	27.12	228.69	4,371.98	216.47	-452.01	-496.95	3,231.88	1.90	357,256.63	1,618,290.69	N 39°28'27.20"	W 80°44'26.37"
4,585.00	26.06	229.88	4,454.25	228.67	-478.87	-528.16	3,314.15	1.29	357,229.77	1,618,259.48	N 39°28'26.93"	W 80°44'26.79"
4,678.00	26.62	229.77	4,537.59	240.52	-505.49	-559.68	3,397.49	0.60	357,203.15	1,618,227.96	N 39°28'26.66"	W 80°44'27.19"
4,770.00	27.14	230.10	4,619.65	252.38	-532.27	-591.52	3,479.55	0.59	357,176.38	1,618,196.12	N 39°28'26.39"	W 80°44'27.59"
4,862.00	27.83	229.42	4,701.27	264.62	-559.70	-623.93	3,561.17	0.82	357,148.95	1,618,163.72	N 39°28'26.11"	W 80°44'28.00"
4,954.00	29.40	230.38	4,782.03	277.21	-588.07	-657.63	3,641.93	1.78	357,120.58	1,618,130.01	N 39°28'25.83"	W 80°44'28.42"
5,047.00	29.86	228.19	4,862.87	290.83	-618.06	-692.47	3,722.77	1.26	357,090.59	1,618,095.17	N 39°28'25.53"	W 80°44'28.86"
5,139.00	29.69	227.89	4,942.72	305.30	-648.61	-726.45	3,802.62	0.25	357,060.04	1,618,061.20	N 39°28'25.22"	W 80°44'29.29"
5,231.00	28.66	230.71	5,023.05	318.58	-677.86	-760.43	3,882.95	1.87	357,030.79	1,618,027.22	N 39°28'24.93"	W 80°44'29.72"
5,323.00	27.70	232.18	5,104.15	329.88	-704.94	-794.40	3,964.05	1.29	357,003.71	1,617,993.26	N 39°28'24.66"	W 80°44'30.15"
5,416.00	27.63	232.34	5,186.52	340.51	-731.37	-828.54	4,046.42	0.11	356,977.28	1,617,959.11	N 39°28'24.39"	W 80°44'30.58"
5,508.00	28.42	232.24	5,267.73	351.13	-757.81	-862.74	4,127.63	0.86	356,950.85	1,617,924.92	N 39°28'24.12"	W 80°44'31.01"
5,600.00	27.48	232.02	5,349.00	361.84	-784.28	-896.78	4,208.90	1.03	356,924.38	1,617,890.88	N 39°28'23.86"	W 80°44'31.44"
5,692.00	25.43	231.02	5,431.36	372.43	-809.77	-928.87	4,291.26	2.28	356,898.89	1,617,858.79	N 39°28'23.60"	W 80°44'31.84"
5,784.00	24.90	230.39	5,514.63	383.08	-834.54	-959.14	4,374.53	0.65	356,874.12	1,617,828.52	N 39°28'23.35"	W 80°44'32.22"
5,877.00	24.60	229.08	5,599.08	394.31	-859.70	-988.85	4,458.98	0.67	356,848.96	1,617,798.81	N 39°28'23.10"	W 80°44'32.60"
5,969.00	25.54	229.70	5,682.42	405.79	-885.08	-1,018.45	4,542.32	1.06	356,823.59	1,617,769.22	N 39°28'22.85"	W 80°44'32.97"
6,062.00	27.27	231.91	5,765.71	416.96	-911.19	-1,050.51	4,626.61	2.14	356,797.48	1,617,737.16	N 39°28'22.58"	W 80°44'33.38"
6,154.00	28.14	231.96	5,847.16	427.72	-937.56	-1,084.19	4,707.06	0.95	356,771.11	1,617,703.48	N 39°28'22.32"	W 80°44'33.80"
6,247.00	27.19	231.77	5,929.53	438.63	-964.22	-1,118.15	4,789.43	1.03	356,744.45	1,617,669.52	N 39°28'22.05"	W 80°44'34.23"
6,339.00	26.12	231.86	6,011.75	449.10	-989.74	-1,150.59	4,871.65	1.16	356,718.93	1,617,637.08	N 39°28'21.79"	W 80°44'34.64"
6,373.00	25.82	231.90	6,042.32	452.87	-998.93	-1,162.30	4,902.22	0.88	356,709.74	1,617,625.37	N 39°28'21.70"	W 80°44'34.79"
6,466.00	28.71	230.77	6,124.98	464.04	-1,025.56	-1,195.55	4,984.88	3.16	356,683.11	1,617,592.13	N 39°28'21.43"	W 80°44'35.21"
6,558.00	30.61	226.21	6,204.93	478.16	-1,055.75	-1,229.59	5,064.83	3.21	356,652.92	1,617,558.09	N 39°28'21.13"	W 80°44'35.63"
6,650.00	30.47	225.31	6,284.17	494.72	-1,088.36	-1,263.08	5,144.07	0.52	356,620.31	1,617,524.60	N 39°28'20.80"	W 80°44'36.06"
6,742.00	30.49	224.32	6,363.46	511.97	-1,121.47	-1,295.97	5,223.36	0.55	356,587.21	1,617,491.72	N 39°28'20.47"	W 80°44'36.47"
6,834.00	31.18	207.81	6,442.59	535.72	-1,159.30	-1,323.43	5,302.49	9.20	356,549.38	1,617,464.25	N 39°28'20.09"	W 80°44'36.81"
6,926.00	33.79	193.79	6,520.30	571.02	-1,205.28	-1,340.67	5,380.20	8.64	356,503.40	1,617,447.01	N 39°28'19.64"	W 80°44'37.02"
7,019.00	39.94	187.98	6,594.69	617.12	-1,260.03	-1,350.99	5,454.59	7.60	356,448.65	1,617,436.69	N 39°28'19.09"	W 80°44'37.15"
7,111.00	48.37	186.11	6,660.64	672.31	-1,323.58	-1,358.77	5,520.54	9.27	356,385.11	1,617,428.92	N 39°28'18.47"	W 80°44'37.23"
7,203.00	52.73	180.46	6,719.12	735.72	-1,394.44	-1,362.72	5,579.02	6.70	356,314.25	1,617,424.96	N 39°28'17.76"	W 80°44'37.27"
7,295.00	57.35	174.60	6,771.85	806.07	-1,469.69	-1,359.37	5,631.75	7.24	356,239.01	1,617,428.32	N 39°28'17.02"	W 80°44'37.22"
7,388.00	63.47	168.18	6,817.79	884.16	-1,549.53	-1,347.14	5,677.69	8.90	356,159.17	1,617,440.55	N 39°28'16.23"	W 80°44'37.05"
7,480.00	70.92	162.07	6,853.45	967.92	-1,631.36	-1,325.28	5,713.35	10.15	356,077.35	1,617,462.41	N 39°28'15.43"	W 80°44'36.75"
7,573.00	78.95	157.51	6,877.61	1,057.48	-1,715.51	-1,294.23	5,737.51	9.85	355,993.20	1,617,493.46	N 39°28'14.60"	W 80°44'36.34"
7,665.00	80.70	152.30	6,893.87	1,147.96	-1,797.48	-1,265.83	5,753.77	5.89	355,911.24	1,617,531.85	N 39°28'13.80"	W 80°44'35.84"
7,757.00	87.34	151.41	6,903.45	1,239.11	-1,878.11	-1,212.69	5,763.35	7.28	355,830.61	1,617,574.99	N 39°28'13.01"	W 80°44'35.27"
7,849.00	89.64	149.85	6,905.88	1,330.58	-1,958.25	-1,167.59	5,765.78	3.02	355,750.47	1,617,620.09	N 39°28'12.22"	W 80°44'34.68"
7,941.00	89.61	150.67	6,906.48	1,422.03	-2,038.13	-1,121.95	5,766.38	0.89	355,670.60	1,617,665.72	N 39°28'11.44"	W 80°44'34.09"
8,033.00	89.32	150.72	6,907.34	1,513.56	-2,118.35	-1,076.92	5,767.24	0.32	355,590.38	1,617,710.75	N 39°28'10.65"	W 80°44'33.50"
8,126.00	89.58	151.07	6,908.23	1,606.11	-2,199.61	-1,031.69	5,768.13	0.47	355,509.13	1,617,755.98	N 39°28'9.85"	W 80°44'32.91"
8,218.00	89.66	150.77	6,908.84	1,697.67	-2,280.01	-986.97	5,768.74	0.34	355,428.74	1,617,800.69	N 39°28'9.06"	W 80°44'32.32"
8,310.00	89.50	150.95	6,909.52	1,789.22	-2,360.36	-942.17	5,769.42	0.26	355,348.39	1,617,845.49	N 39°28'8.28"	W 80°44'31.74"
8,402.00	89.70	149.82	6,910.16	1,880.69	-2,440.34	-896.71	5,770.06	1.25	355,268.41	1,617,890.95	N 39°28'7.49"	W 80°44'31.15"
8,494.00	89.65	150.13	6,910.88	1,972.09	-2,519.99	-850.68	5,770.58	0.34	355,188.76	1,617,936.98	N 39°28'6.71"	W 80°44'30.54"
8,586.00	89.55	149.83	6,911.32	2,063.49	-2,599.65	-804.85	5,771.22	0.34	355,109.11	1,617,983.00	N 39°28'5.93"	W 80°44'29.94"
8,679.00	89.51	149.74	6,912.09	2,155.85	-2,680.01	-757.85	5,771.99	0.11	355,028.76	1,618,029.80	N 39°28'5.14"	W 80°44'29.33"
8,771.00	89.58	150.06	6,912.82	2,247.23	-2,759.60	-711.71	5,772.72	0.36	354,949.17	1,618,075.94	N 39°28'4.36"	W 80°44'28.73"
8,863.00	89.56	149.57	6,913.51	2,338.60	-2,839.13	-665.46	5,773.41	0.53	354,869.65	1,618,122.19	N 39°28'3.58"	W 80°44'28.13"
8,955.00	89.50	148.94	6,914.26	2,429.86	-2,918.19	-618.43	5,774.16	0.69	354,790.59	1,618,169.22	N 39°28'2.81"	W 80°44'27.51"
9,047.00	89.55	149.68	6,915.02	2,521.13	-2,997.30	-571.47	5,774.92	0.81	354,711.48	1,618,216.17	N 39°28'2.03"	W 80°44'26.90"

Last 3rd Party Survey
First SLB MWD Survey

JUL 28 2025

WV Department of
Environmental Protection

9,140.00	89.51	149.45	6,915.79	2,613.45	-3,077.49	-524.37	5,775.69	0.25	354,631.30	1,618,263.27	N 39°28'1.25"	W 80°44'26.29"
9,232.00	89.48	149.48	6,916.60	2,704.75	-3,156.72	-477.63	5,776.50	0.05	354,552.07	1,618,310.01	N 39°28'0.47"	W 80°44'25.68"
9,324.00	89.64	149.38	6,917.31	2,796.04	-3,235.93	-430.84	5,777.21	0.21	354,472.86	1,618,356.80	N 39°27'59.69"	W 80°44'25.07"
9,417.00	89.35	149.28	6,918.12	2,888.31	-3,315.92	-383.40	5,778.02	0.33	354,392.88	1,618,404.23	N 39°27'58.91"	W 80°44'24.45"
9,509.00	89.35	149.36	6,919.17	2,979.58	-3,395.04	-336.46	5,779.07	0.09	354,313.77	1,618,451.17	N 39°27'58.13"	W 80°44'23.83"
9,601.00	89.29	149.25	6,920.26	3,070.85	-3,474.15	-289.50	5,780.16	0.14	354,234.67	1,618,498.12	N 39°27'57.36"	W 80°44'23.22"
9,693.00	89.35	149.19	6,921.35	3,162.10	-3,553.18	-242.42	5,781.25	0.09	354,155.64	1,618,545.20	N 39°27'56.58"	W 80°44'22.61"
9,785.00	89.40	149.16	6,922.36	3,253.34	-3,632.18	-195.28	5,782.26	0.06	354,076.64	1,618,592.34	N 39°27'55.81"	W 80°44'21.99"
9,877.00	89.44	149.69	6,923.29	3,344.63	-3,711.38	-148.49	5,783.19	0.58	353,997.44	1,618,639.13	N 39°27'55.03"	W 80°44'21.38"
9,970.00	89.24	150.20	6,924.36	3,437.02	-3,791.87	-101.92	5,784.26	0.59	353,916.96	1,618,685.70	N 39°27'54.24"	W 80°44'20.77"
10,062.00	89.25	149.81	6,925.57	3,528.42	-3,871.54	-55.93	5,785.47	0.42	353,837.29	1,618,731.68	N 39°27'53.46"	W 80°44'20.17"
10,155.00	89.39	149.68	6,926.67	3,620.76	-3,951.87	-9.07	5,786.57	0.21	353,756.97	1,618,778.54	N 39°27'52.68"	W 80°44'19.56"
10,247.00	89.26	149.97	6,927.76	3,712.13	-4,031.40	37.17	5,787.66	0.35	353,677.45	1,618,824.77	N 39°27'51.90"	W 80°44'18.96"
10,340.00	89.52	150.25	6,928.75	3,804.55	-4,112.02	83.51	5,788.65	0.41	353,596.83	1,618,871.11	N 39°27'51.11"	W 80°44'18.35"
10,433.00	89.88	149.84	6,929.24	3,896.95	-4,192.60	129.95	5,789.14	0.59	353,516.25	1,618,917.55	N 39°27'50.32"	W 80°44'17.75"
10,525.00	89.66	149.33	6,929.60	3,988.28	-4,271.94	176.52	5,789.50	0.60	353,436.92	1,618,964.12	N 39°27'49.54"	W 80°44'17.14"
10,618.00	89.58	149.50	6,930.22	4,080.57	-4,352.00	223.84	5,790.12	0.20	353,356.87	1,619,011.44	N 39°27'48.75"	W 80°44'16.52"
10,710.00	90.01	149.25	6,930.55	4,171.85	-4,431.16	270.71	5,790.45	0.54	353,277.70	1,619,058.30	N 39°27'47.98"	W 80°44'15.91"
10,803.00	89.78	149.20	6,930.72	4,264.10	-4,511.07	318.29	5,790.62	0.25	353,197.80	1,619,105.88	N 39°27'47.19"	W 80°44'15.29"
10,895.00	90.01	149.46	6,930.89	4,355.38	-4,590.20	365.22	5,790.79	0.38	353,118.68	1,619,152.81	N 39°27'46.42"	W 80°44'14.68"
10,988.00	89.87	149.30	6,930.99	4,447.66	-4,670.23	412.59	5,790.89	0.23	353,038.65	1,619,200.17	N 39°27'45.63"	W 80°44'14.06"
11,080.00	89.89	149.69	6,931.18	4,538.97	-4,749.50	459.29	5,791.08	0.42	352,959.39	1,619,246.87	N 39°27'44.86"	W 80°44'13.45"
11,174.00	89.95	149.44	6,931.31	4,632.28	-4,830.54	506.90	5,791.21	0.27	352,878.35	1,619,294.48	N 39°27'44.06"	W 80°44'12.83"
11,267.00	90.02	151.27	6,931.34	4,724.74	-4,911.37	552.90	5,791.24	1.97	352,797.53	1,619,340.48	N 39°27'43.27"	W 80°44'12.23"
11,359.00	90.01	150.44	6,931.31	4,816.29	-4,991.72	597.71	5,791.21	0.90	352,717.18	1,619,385.28	N 39°27'42.48"	W 80°44'11.64"
11,452.00	89.88	150.38	6,931.40	4,908.77	-5,072.59	643.63	5,791.30	0.15	352,636.32	1,619,431.20	N 39°27'41.69"	W 80°44'11.04"
11,544.00	90.09	150.53	6,931.42	5,000.25	-5,152.63	689.00	5,791.32	0.28	352,556.28	1,619,476.57	N 39°27'40.90"	W 80°44'10.45"
11,637.00	90.04	150.14	6,931.32	5,092.71	-5,233.44	735.03	5,791.22	0.42	352,475.48	1,619,522.59	N 39°27'40.11"	W 80°44'9.85"
11,729.00	89.82	150.57	6,931.43	5,184.18	-5,313.40	780.53	5,791.33	0.53	352,395.52	1,619,568.09	N 39°27'39.33"	W 80°44'9.26"
11,822.00	89.92	150.38	6,931.64	5,276.67	-5,394.32	826.36	5,791.54	0.23	352,314.61	1,619,613.92	N 39°27'38.54"	W 80°44'8.66"
11,914.00	89.95	150.31	6,931.75	5,368.14	-5,474.27	871.88	5,791.65	0.08	352,234.66	1,619,659.44	N 39°27'37.75"	W 80°44'8.06"
12,007.00	89.67	150.61	6,932.06	5,460.62	-5,555.18	917.73	5,791.96	0.44	352,153.75	1,619,705.29	N 39°27'36.96"	W 80°44'7.46"
12,099.00	89.28	150.37	6,932.90	5,552.11	-5,635.24	963.05	5,792.80	0.50	352,073.70	1,619,750.60	N 39°27'36.17"	W 80°44'6.87"
12,192.00	89.10	150.52	6,934.21	5,644.58	-5,716.13	1,008.92	5,794.11	0.25	351,992.81	1,619,796.47	N 39°27'35.38"	W 80°44'6.27"
12,284.00	89.17	150.50	6,935.60	5,736.06	-5,796.20	1,054.20	5,795.50	0.08	351,912.75	1,619,841.75	N 39°27'34.59"	W 80°44'5.68"
12,377.00	89.15	150.50	6,936.97	5,828.54	-5,877.14	1,099.99	5,796.87	0.02	351,831.82	1,619,887.53	N 39°27'33.80"	W 80°44'5.08"
12,469.00	89.15	150.35	6,938.33	5,920.01	-5,957.14	1,145.39	5,798.23	0.16	351,751.82	1,619,933.93	N 39°27'33.02"	W 80°44'4.49"
12,561.00	88.94	150.62	6,939.86	6,011.49	-6,037.19	1,190.71	5,799.76	0.37	351,671.77	1,619,978.25	N 39°27'32.23"	W 80°44'3.90"
12,654.00	88.81	150.30	6,941.69	6,103.95	-6,118.09	1,236.55	5,801.59	0.37	351,590.88	1,620,024.09	N 39°27'31.44"	W 80°44'3.30"
12,746.00	89.19	150.17	6,943.29	6,195.39	-6,197.94	1,282.22	5,803.19	0.44	351,511.03	1,620,069.75	N 39°27'30.66"	W 80°44'2.71"
12,838.00	89.46	150.31	6,944.38	6,286.83	-6,277.80	1,327.88	5,804.28	0.33	351,431.18	1,620,115.41	N 39°27'29.87"	W 80°44'2.11"
12,931.00	89.45	150.43	6,945.26	6,379.29	-6,358.63	1,373.86	5,805.16	0.13	351,350.35	1,620,161.39	N 39°27'29.08"	W 80°44'1.51"
13,024.00	89.48	150.34	6,946.13	6,471.76	-6,439.48	1,419.81	5,806.03	0.10	351,269.50	1,620,207.34	N 39°27'28.29"	W 80°44'0.91"
13,116.00	89.45	150.12	6,946.99	6,563.20	-6,519.33	1,465.49	5,806.89	0.24	351,189.65	1,620,253.02	N 39°27'27.50"	W 80°44'0.31"
13,209.00	89.36	149.50	6,947.96	6,655.56	-6,599.72	1,512.26	5,807.86	0.67	351,109.28	1,620,299.78	N 39°27'26.72"	W 80°43'59.70"
13,301.00	89.40	149.41	6,948.95	6,746.86	-6,678.94	1,559.01	5,808.85	0.11	351,030.05	1,620,346.53	N 39°27'25.94"	W 80°43'58.09"
13,394.00	89.48	150.54	6,949.86	6,839.25	-6,759.46	1,605.54	5,809.76	1.22	350,949.54	1,620,393.06	N 39°27'25.15"	W 80°43'56.49"
13,486.00	89.42	150.38	6,950.74	6,930.73	-6,839.50	1,650.90	5,810.64	0.19	350,869.51	1,620,438.41	N 39°27'24.37"	W 80°43'57.89"
13,578.00	89.57	149.83	6,951.55	7,022.16	-6,919.25	1,696.75	5,811.45	0.62	350,789.76	1,620,484.26	N 39°27'23.58"	W 80°43'57.29"
13,671.00	89.73	149.80	6,952.12	7,114.52	-6,999.64	1,743.51	5,812.02	0.18	350,709.38	1,620,531.02	N 39°27'22.80"	W 80°43'56.68"
13,763.00	89.78	149.87	6,952.52	7,205.90	-7,079.18	1,789.74	5,812.42	0.09	350,629.84	1,620,577.24	N 39°27'22.02"	W 80°43'56.08"
13,856.00	89.51	149.69	6,953.09	7,298.25	-7,159.54	1,836.55	5,812.99	0.35	350,549.49	1,620,624.05	N 39°27'21.23"	W 80°43'55.47"
13,948.00	89.65	149.44	6,953.77	7,389.58	-7,238.86	1,883.15	5,813.67	0.31	350,470.17	1,620,670.65	N 39°27'20.45"	W 80°43'54.86"
14,041.00	89.26	150.04	6,954.65	7,481.92	-7,319.18	1,930.01	5,814.55	0.77	350,389.85	1,620,717.51	N 39°27'19.66"	W 80°43'54.25"
14,133.00	89.36	149.67	6,955.76	7,573.30	-7,398.74	1,976.21	5,815.66	0.42	350,310.30	1,620,763.70	N 39°27'18.88"	W 80°43'53.65"
14,226.00	90.02	150.12	6,956.26	7,665.67	-7,479.19	2,022.85	5,816.16	0.86	350,229.85	1,620,810.35	N 39°27'18.09"	W 80°43'53.04"
14,318.00	89.78	149.72	6,956.42	7,757.07	-7,558.80	2,068.97	5,816.32	0.51	350,150.25	1,620,856.45	N 39°27'17.31"	W 80°43'52.44"
14,410.00	89.84	149.49	6,956.73	7,848.40	-7,638.15	2,115.51	5,816.63	0.26	350,070.90	1,620,903.00	N 39°27'16.54"	W 80°43'51.83"
14,503.00	89.84	150.19	6,956.99	7,940.77	-7,718.56	2,162.24	5,816.89	0.75	349,990.49	1,620,949.72	N 39°27'15.75"	W 80°43'51.22"
14,595.00	89.98	150.02	6,957.13	8,032.19	-7,798.32	2,208.09	5,817.03	0.24	349,910.74	1,620,995.57	N 39°27'14.97"	W 80°43'50.62"
14,688.00	89.88	149.52	6,957.25	8,124.55	-7,878.67	2,254.91	5,817.15	0.55	349,830.39	1,621,042.39	N 39°27'14.18"	W 80°43'50.01"
14,780.00	89.89	149.58	6,957.43	8,216.87	-7,957.98	2,301.54	5,817.33	0.07	349,751.09	1,621,089.01	N 39°27'13.40"	W 80°43'49.40"
14,872.00	89.75	149.44	6,957.72	8,307.19	-8,037.26	2,348.22	5,817.62	0.22	349,671.81	1,621,135.69	N 39°27'12.62"	W 80°43'48.79"
14,965.00	89.88	149.61	6,958.02	8,399.50	-8,117.41	2,395.38	5,817.92	0.23	349,591.67	1,621,182.85	N 39°27'11.84"	W 80°43'48.18"
15,057.00	89.04	148.37	6,958.89	8,490.70	-8,196.26	2,442.78	5,818.79	1.63	349,512.83	1,621,230.25	N 39°27'11.06"	W 80°43'47.56"
15,149.00	89.29	149.48	6,960.23	8,581.88	-8,275.05	2,490.26	5,820.13	1.24	349,434.04	1,621,277.72	N 39°27'10.29"	W 80°43'46.94"
15,242.00	89.45	149.46	6,961.25	8,674.17	-8,355.15	2,537.50	5,821.15	0.17	349,353.95	1,621,324.96	N 39°27'9.51"	W 80°43'46.33"

15,335.00	89.55	149.64	6,962.06	8,766.49	-8,435.32	2,584.63	5,821.96	0.22	349,273.78	1,621,372.09	N 39°27'8.72"	W 80°43'45.71"
15,427.00	89.55	149.37	6,962.78	8,857.80	-8,514.59	2,631.31	5,822.68	0.29	349,194.51	1,621,418.77	N 39°27'7.94"	W 80°43'45.10"
15,520.00	89.43	149.54	6,963.61	8,950.09	-8,594.68	2,678.58	5,823.51	0.22	349,114.43	1,621,466.03	N 39°27'7.16"	W 80°43'44.49"
15,612.00	89.55	149.36	6,964.43	9,041.39	-8,673.91	2,725.34	5,824.33	0.24	349,035.21	1,621,512.79	N 39°27'6.38"	W 80°43'43.88"
15,705.00	89.77	149.46	6,964.98	9,133.67	-8,753.96	2,772.66	5,824.88	0.26	348,955.15	1,621,560.11	N 39°27'5.60"	W 80°43'43.26"
15,797.00	89.75	149.32	6,965.37	9,224.96	-8,833.14	2,819.51	5,825.27	0.15	348,875.98	1,621,606.95	N 39°27'4.82"	W 80°43'42.65"
15,890.00	89.78	149.63	6,965.75	9,317.26	-8,913.25	2,866.74	5,825.65	0.33	348,795.87	1,621,654.19	N 39°27'4.04"	W 80°43'42.03"
15,982.00	89.75	149.46	6,966.13	9,408.58	-8,992.56	2,913.37	5,826.03	0.19	348,716.57	1,621,700.81	N 39°27'3.26"	W 80°43'41.42"
16,075.00	89.95	149.38	6,966.37	9,500.87	-9,072.62	2,960.69	5,826.27	0.23	348,636.51	1,621,748.12	N 39°27'2.47"	W 80°43'40.81"
16,167.00	89.86	149.51	6,966.52	9,592.17	-9,151.85	3,007.46	5,826.42	0.17	348,557.29	1,621,794.89	N 39°27'1.70"	W 80°43'40.20"
16,259.00	89.92	149.70	6,966.70	9,683.50	-9,231.20	3,054.00	5,826.60	0.22	348,477.94	1,621,841.44	N 39°27'0.92"	W 80°43'39.59"
16,351.00	89.98	149.22	6,966.78	9,774.81	-9,310.44	3,100.75	5,826.68	0.53	348,398.71	1,621,888.18	N 39°27'0.14"	W 80°43'38.98"
16,444.00	89.75	148.95	6,967.00	9,867.03	-9,390.23	3,148.53	5,826.90	0.38	348,318.93	1,621,935.96	N 39°26'59.36"	W 80°43'38.36"
16,536.00	89.78	149.42	6,967.38	9,958.28	-9,469.24	3,195.66	5,827.28	0.51	348,239.92	1,621,983.08	N 39°26'58.59"	W 80°43'37.74"
16,629.00	89.68	149.95	6,967.82	10,050.61	-9,549.52	3,242.60	5,827.72	0.58	348,159.64	1,622,030.02	N 39°26'57.80"	W 80°43'37.13"
16,722.00	89.52	150.04	6,968.46	10,143.01	-9,630.06	3,289.11	5,828.36	0.20	348,079.11	1,622,076.53	N 39°26'57.01"	W 80°43'36.52"
16,814.00	89.65	149.59	6,968.13	10,234.38	-9,709.58	3,335.36	5,829.03	0.51	347,999.59	1,622,122.78	N 39°26'56.23"	W 80°43'35.92"
16,907.00	89.50	150.12	6,969.82	10,326.75	-9,790.00	3,382.07	5,829.72	0.59	347,919.18	1,622,169.48	N 39°26'55.44"	W 80°43'35.31"
16,999.00	89.32	150.27	6,970.77	10,418.19	-9,869.82	3,427.79	5,830.67	0.25	347,839.36	1,622,215.20	N 39°26'54.66"	W 80°43'34.71"
17,091.00	89.31	150.33	6,971.87	10,509.64	-9,949.73	3,473.37	5,831.77	0.07	347,759.45	1,622,260.78	N 39°26'53.88"	W 80°43'34.12"
17,184.00	89.38	149.80	6,972.93	10,602.05	-10,030.32	3,519.78	5,832.83	0.57	347,678.87	1,622,307.18	N 39°26'53.09"	W 80°43'33.51"
17,276.00	89.35	149.89	6,973.95	10,693.42	-10,109.87	3,565.99	5,833.85	0.10	347,599.33	1,622,353.39	N 39°26'52.31"	W 80°43'32.91"
17,369.00	89.35	149.84	6,975.01	10,785.79	-10,190.29	3,612.68	5,834.91	0.05	347,518.91	1,622,400.08	N 39°26'51.52"	W 80°43'32.30"
17,461.00	89.08	150.12	6,976.27	10,877.19	-10,269.94	3,658.70	5,836.17	0.42	347,439.26	1,622,446.10	N 39°26'50.74"	W 80°43'31.70"
17,554.00	88.94	149.90	6,977.87	10,969.57	-10,350.48	3,705.18	5,837.77	0.28	347,358.73	1,622,492.57	N 39°26'49.95"	W 80°43'31.09"
17,647.00	88.92	150.28	6,979.61	11,061.97	-10,431.08	3,751.54	5,839.51	0.41	347,278.14	1,622,538.93	N 39°26'49.16"	W 80°43'30.49"
17,739.00	89.08	149.95	6,981.22	11,153.39	-10,510.83	3,797.38	5,841.12	0.40	347,198.39	1,622,584.77	N 39°26'48.37"	W 80°43'29.89"
17,832.00	88.94	150.12	6,982.82	11,245.78	-10,591.39	3,843.82	5,842.72	0.24	347,117.84	1,622,631.21	N 39°26'47.58"	W 80°43'29.29"
17,924.00	88.80	149.90	6,984.64	11,337.17	-10,671.05	3,889.80	5,844.54	0.28	347,038.17	1,622,677.18	N 39°26'46.80"	W 80°43'28.69"
18,017.00	88.77	150.15	6,986.61	11,429.56	-10,751.60	3,936.25	5,846.51	0.27	346,957.64	1,622,723.63	N 39°26'46.01"	W 80°43'28.08"
18,109.00	88.80	150.03	6,988.56	11,520.96	-10,831.33	3,982.12	5,848.46	0.13	346,877.91	1,622,769.49	N 39°26'45.23"	W 80°43'27.48"
18,202.00	88.82	150.18	6,990.49	11,613.36	-10,911.93	4,028.46	5,850.39	0.16	346,797.31	1,622,815.83	N 39°26'44.44"	W 80°43'26.88"
18,294.00	88.86	150.20	6,992.35	11,704.78	-10,991.74	4,074.18	5,852.25	0.05	346,717.50	1,622,861.56	N 39°26'43.66"	W 80°43'26.28"
18,387.00	88.77	150.24	6,994.28	11,797.20	-11,072.44	4,120.36	5,854.18	0.11	346,636.81	1,622,907.74	N 39°26'42.87"	W 80°43'25.68"
18,479.00	88.50	150.13	6,996.47	11,888.61	-11,152.24	4,166.09	5,856.37	0.32	346,557.01	1,622,953.46	N 39°26'42.09"	W 80°43'25.08"
18,572.00	88.59	150.21	6,998.83	11,981.01	-11,232.90	4,212.34	5,858.73	0.13	346,476.37	1,622,999.71	N 39°26'41.29"	W 80°43'24.48"
18,664.00	88.47	149.89	7,001.19	12,072.40	-11,312.58	4,258.26	5,861.09	0.37	346,396.68	1,623,045.62	N 39°26'40.51"	W 80°43'23.88"
18,757.00	88.71	150.38	7,003.48	12,164.80	-11,393.21	4,304.55	5,863.38	0.59	346,316.06	1,623,091.91	N 39°26'39.72"	W 80°43'23.27"
18,850.00	88.82	149.52	7,005.48	12,257.17	-11,473.69	4,351.11	5,865.38	0.93	346,235.59	1,623,138.47	N 39°26'38.93"	W 80°43'22.67"
18,942.00	88.92	149.72	7,007.30	12,348.48	-11,553.04	4,397.63	5,867.20	0.24	346,156.24	1,623,184.98	N 39°26'38.16"	W 80°43'22.06"
19,034.00	89.16	149.78	7,008.84	12,439.83	-11,632.50	4,443.97	5,868.74	0.27	346,076.78	1,623,231.32	N 39°26'37.38"	W 80°43'21.46"
19,127.00	89.28	149.91	7,010.10	12,532.19	-11,712.91	4,490.68	5,870.00	0.19	345,996.38	1,623,278.03	N 39°26'36.59"	W 80°43'20.85"
19,219.00	89.18	149.63	7,011.34	12,623.55	-11,792.39	4,537.00	5,871.24	0.32	345,916.90	1,623,324.34	N 39°26'35.81"	W 80°43'20.24"
19,312.00	89.53	149.70	7,012.39	12,715.88	-11,872.65	4,583.96	5,872.29	0.38	345,836.64	1,623,371.31	N 39°26'35.02"	W 80°43'19.63"
19,404.00	89.64	149.24	7,013.05	12,807.18	-11,951.90	4,630.70	5,872.95	0.51	345,757.41	1,623,418.04	N 39°26'34.25"	W 80°43'19.02"
19,497.00	89.73	149.72	7,013.57	12,899.48	-12,032.01	4,677.93	5,873.47	0.53	345,677.30	1,623,465.27	N 39°26'33.46"	W 80°43'18.40"
19,589.00	89.70	149.64	7,014.02	12,990.83	-12,111.43	4,724.37	5,873.92	0.09	345,597.89	1,623,511.71	N 39°26'32.68"	W 80°43'17.80"
19,682.00	89.73	150.10	7,014.49	13,083.20	-12,191.86	4,771.05	5,874.39	0.50	345,517.46	1,623,558.39	N 39°26'31.89"	W 80°43'17.19"
19,774.00	89.79	150.13	7,014.87	13,174.63	-12,271.62	4,816.89	5,874.77	0.07	345,437.70	1,623,604.22	N 39°26'31.11"	W 80°43'16.59"
19,866.00	89.74	150.09	7,015.25	13,266.06	-12,351.39	4,862.74	5,875.15	0.07	345,357.94	1,623,650.07	N 39°26'30.33"	W 80°43'15.99"
19,959.00	89.68	150.16	7,015.72	13,358.48	-12,432.03	4,909.06	5,875.62	0.10	345,277.30	1,623,696.39	N 39°26'29.54"	W 80°43'15.39"
20,051.00	89.75	150.47	7,016.18	13,449.94	-12,511.95	4,954.62	5,876.08	0.35	345,197.38	1,623,741.94	N 39°26'28.75"	W 80°43'14.79"
20,143.00	89.60	150.00	7,016.70	13,541.39	-12,591.81	5,000.29	5,876.60	0.54	345,117.53	1,623,787.61	N 39°26'27.97"	W 80°43'14.20"
20,236.00	90.30	149.94	7,016.78	13,633.78	-12,672.33	5,046.84	5,876.68	0.76	345,037.02	1,623,834.15	N 39°26'27.18"	W 80°43'13.59"
20,328.00	89.49	149.97	7,016.95	13,725.18	-12,751.97	5,092.89	5,876.85	0.88	344,957.38	1,623,880.21	N 39°26'26.40"	W 80°43'12.99"
20,421.00	89.38	150.27	7,017.86	13,817.60	-12,832.60	5,139.22	5,877.76	0.34	344,876.75	1,623,926.53	N 39°26'25.61"	W 80°43'12.39"
20,513.00	89.06	150.02	7,019.11	13,909.02	-12,912.39	5,185.01	5,879.01	0.44	344,796.97	1,623,972.32	N 39°26'24.83"	W 80°43'11.79"
20,606.00	88.78	150.10	7,020.86	14,001.42	-12,992.96	5,231.42	5,880.76	0.31	344,716.40	1,624,018.72	N 39°26'24.04"	W 80°43'11.18"
20,698.00	89.25	150.60	7,022.43	14,092.87	-13,072.91	5,276.92	5,882.33	0.74	344,636.46	1,624,064.23	N 39°26'23.25"	W 80°43'10.59"
20,791.00	88.98	149.98	7,023.87	14,185.31	-13,153.67	5,323.01	5,883.77	0.73	344,555.70	1,624,110.31	N 39°26'22.46"	W 80°43'9.99"
20,883.00	89.17	150.28	7,025.36	14,276.73	-13,233.44	5,368.82	5,885.26	0.39	344,475.94	1,624,156.12	N 39°26'21.68"	W 80°43'9.39"
20,975.00	89.31	150.65	7,026.59	14,368.21	-13,313.48	5,414.16	5,886.49	0.43	344,395.90	1,624,201.46	N 39°26'20.89"	W 80°43'8.80"
21,068.00	88.48	149.87	7,028.38	14,460.64	-13,394.22	5,460.28	5,888.28	1.22	344,315.17	1,624,247.58	N 39°26'20.10"	W 80°43'8.20"
21,160.00	88.86	149.27	7,030.51	14,551.94	-13,473.52	5,506.87	5,890.41	0.77	344,235.87	1,624,294.16	N 39°26'19.33"	W 80°43'7.59"
21,253.00	89.05	149.89	7,032.20	14,644.25	-13,553.70	5,553.96	5,892.10	0.69	344,155.70	1,624,341.24	N 39°26'18.54"	W 80°43'6.98"
21,345.00	89.55	150.70	7,033.32	14,735.70	-13,633.60	5,599.55	5,893.22	1.03	344,075.80	1,624,386.83	N 39°26'17.76"	W 80°43'6.38"
21,438.00	89.66	150.48	7,033.96	14,828.20	-13,714.61	5,645.22	5,893.86	0.26	343,994.79	1,624,432.50	N 39°26'16.96"	W 80°43'5.79"

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	21,530.00	89.95	149.90	7,034.27	14,919.64	-13,794.44	5,690.95	5,894.17	0.70	343,914.97	1,624,478.23	N 39°26'16.18"	W 80°43'5.19"
	21,623.00	90.12	150.18	7,034.22	15,012.05	-13,875.01	5,737.39	5,894.12	0.36	343,834.40	1,624,524.67	N 39°26'15.39"	W 80°43'4.58"
	21,715.00	89.92	149.54	7,034.19	15,103.43	-13,954.57	5,783.58	5,894.09	0.74	343,754.84	1,624,570.86	N 39°26'14.61"	W 80°43'3.98"
	21,808.00	90.02	150.17	7,034.24	15,195.80	-14,034.99	5,830.29	5,894.14	0.69	343,674.43	1,624,617.56	N 39°26'13.82"	W 80°43'3.37"
	21,900.00	89.93	150.04	7,034.29	15,287.22	-14,114.75	5,876.15	5,894.19	0.17	343,594.68	1,624,663.42	N 39°26'13.04"	W 80°43'2.77"
	21,993.00	89.25	150.92	7,034.95	15,379.71	-14,195.67	5,921.98	5,894.85	1.19	343,513.76	1,624,709.24	N 39°26'12.24"	W 80°43'2.17"
	22,085.00	89.91	150.30	7,035.62	15,471.21	-14,275.82	5,967.13	5,895.52	0.98	343,433.61	1,624,754.39	N 39°26'11.46"	W 80°43'1.59"
	22,178.00	89.60	149.90	7,036.02	15,563.63	-14,356.44	6,013.49	5,895.92	0.54	343,353.00	1,624,800.75	N 39°26'10.67"	W 80°43'0.98"
	22,270.00	89.21	149.17	7,036.97	15,654.94	-14,435.73	6,060.14	5,896.87	0.90	343,273.71	1,624,847.39	N 39°26'9.89"	W 80°43'0.37"
	22,363.00	89.51	149.30	7,038.01	15,747.19	-14,515.64	6,107.71	5,897.91	0.35	343,193.81	1,624,894.96	N 39°26'9.11"	W 80°42'59.75"
	22,455.00	89.18	149.57	7,039.06	15,838.48	-14,594.85	6,154.48	5,898.96	0.46	343,114.60	1,624,941.74	N 39°26'8.33"	W 80°42'59.14"
	22,548.00	89.58	150.02	7,040.06	15,930.84	-14,675.22	6,201.27	5,899.96	0.65	343,034.24	1,624,988.52	N 39°26'7.54"	W 80°42'58.53"
	22,640.00	89.23	149.37	7,041.01	16,022.18	-14,754.65	6,247.69	5,900.91	0.81	342,954.82	1,625,034.93	N 39°26'6.76"	W 80°42'57.93"
	22,733.00	90.11	151.35	7,041.55	16,114.64	-14,835.47	6,293.68	5,901.45	2.33	342,874.00	1,625,080.92	N 39°26'5.97"	W 80°42'57.33"
	22,825.00	90.18	151.85	7,041.31	16,206.30	-14,916.40	6,337.44	5,901.21	0.55	342,793.08	1,625,124.68	N 39°26'5.18"	W 80°42'56.76"
	22,918.00	90.03	150.14	7,041.14	16,298.87	-14,997.73	6,382.53	5,901.04	1.85	342,711.75	1,625,169.77	N 39°26'4.38"	W 80°42'56.17"
	23,010.00	89.98	149.93	7,041.12	16,390.28	-15,077.43	6,428.48	5,901.02	0.23	342,632.05	1,625,215.72	N 39°26'3.60"	W 80°42'55.57"
	23,103.00	89.75	149.46	7,041.34	16,482.63	-15,157.73	6,475.41	5,901.24	0.57	342,551.76	1,625,262.64	N 39°26'2.81"	W 80°42'54.96"
	23,195.00	89.90	149.21	7,041.62	16,573.90	-15,236.86	6,522.33	5,901.52	0.31	342,472.63	1,625,309.56	N 39°26'2.04"	W 80°42'54.34"
	23,287.00	89.52	149.45	7,042.08	16,665.18	-15,315.99	6,569.25	5,901.98	0.49	342,393.51	1,625,356.48	N 39°26'1.26"	W 80°42'53.73"
	23,380.00	89.44	149.62	7,042.93	16,757.49	-15,396.15	6,616.41	5,902.83	0.20	342,313.36	1,625,403.63	N 39°26'0.47"	W 80°42'53.12"
	23,472.00	89.20	149.10	7,044.02	16,848.77	-15,475.29	6,663.29	5,903.92	0.62	342,234.21	1,625,450.52	N 39°25'59.70"	W 80°42'52.51"
	23,564.00	89.25	149.19	7,045.26	16,940.00	-15,554.27	6,710.47	5,905.16	0.12	342,155.24	1,625,497.69	N 39°25'58.92"	W 80°42'51.89"
	23,657.00	89.33	149.00	7,046.41	17,032.22	-15,634.06	6,758.23	5,906.31	0.22	342,075.46	1,625,545.45	N 39°25'58.14"	W 80°42'51.27"
Last SLB MWD Survey	23,749.00	89.24	148.19	7,047.56	17,123.33	-15,712.57	6,806.17	5,907.46	0.89	341,996.95	1,625,593.38	N 39°25'57.37"	W 80°42'50.65"
Projection to TD	23,780.00	89.24	148.19	7,047.97	17,154.00	-15,738.92	6,822.51	5,907.87	0.00	341,970.61	1,625,609.72	N 39°25'57.11"	W 80°42'50.43"
													Project to Bit

Survey Type: DefinitiveSurvey

Survey Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	415.700	Act Stns		A020Ga_GYRO-NS		Sleepy 1A / Sleepy 1A Gyro+MWD 0ft-23780ft
	1	415.700	6,339.000	Act Stns		A001Mb_MWD		Sleepy 1A / Sleepy 1A Gyro+MWD 0ft-23780ft
	1	6,339.000	23,780.000	Act Stns		B001Mb_MWD+HRGM		Sleepy 1A / Sleepy 1A Gyro+MWD 0ft-23780ft

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
415.700	17.500	13.375	
2,421.000	12.250	9.625	
6,339.000	8.750		
23,870.000	8.500		

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