



Jay-Bee Oil & Gas

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	

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-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	

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Sleepy 2X Gyro+MWD 0ft-25040ft Survey Geodetic Report



Definitive Survey

Report Date: September 18, 2024 - 03:06 AM (UTC 0)
Client: Jay-Bee Oil and Gas
Field: WV Tyler County (NAD 83)
Structure / Slot: Jay-Bee Sleepy Pad / Sleepy 2X
Well: Sleepy 2X
Borehole: Sleepy 2X
UBHI / API / Job Number: Unknown / Unknown / Unknown
Survey Name / Version: Sleepy 2X Gyro+MWD 0ft-25040ft / 1
Survey Date: August 15, 2024
Tort / AHD / DDI / ERD Ratio: 279.741' / 18839.294 ft / 7.271 / 2.664
Coordinate Reference System: NAD83 West Virginia State Plane, Northern
Location Lat / Long: N 39°28'31.49183", W 80°44'19.90831"
Location Grid N/E Y/X: N 357684.174 ftUS, E 1618805.551 ftUS
CRS Grid Convergence Angle: -0.79°
Grid Scale Factor: 0.99994418(Applied)
Engine Version: 2024.4.0.4

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 151.269° (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: 999.3288mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 51473.477 nT
Magnetic Dip Angle: 66.199°
Declination Date: September 11, 2024
Magnetic Declination Model: HDGM 2024
North Reference: Grid
Total Corr Mag North->Grid North: -7.036°
Local Coord Referenced To: Well Head

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Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	TVDSS (ft)	DLS (°/100ft)	Closure (ft)	Closure Azimuth (°)	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				357,684.17	1,618,805.55	N 39°28'31.49"	W 80°44'19.91"
First Gyro Survey	27.70	0.00	0.00	27.70	0.00	0.00	0.00	-1,112.40	0.00	0.00	0.00	357,684.17	1,618,805.55	N 39°28'31.49"	W 80°44'19.91"
	77.70	0.32	206.94	77.70	0.08	-0.12	-0.06	-1,062.40	0.64	0.14	206.94	357,684.05	1,618,805.49	N 39°28'31.49"	W 80°44'19.91"
	127.70	0.85	189.44	127.70	0.45	-0.61	-0.19	-1,012.40	1.11	0.64	196.95	357,683.56	1,618,805.36	N 39°28'31.49"	W 80°44'19.91"
	177.70	1.29	191.14	177.69	1.17	-1.53	-0.36	-962.41	0.88	1.57	193.11	357,682.64	1,618,805.19	N 39°28'31.48"	W 80°44'19.91"
	227.70	1.86	137.45	227.67	2.39	-2.68	0.08	-912.43	3.02	2.68	178.23	357,681.49	1,618,805.63	N 39°28'31.47"	W 80°44'19.91"
	277.70	1.95	133.53	277.64	3.99	-3.87	1.25	-862.46	0.32	4.06	162.10	357,680.31	1,618,806.80	N 39°28'31.45"	W 80°44'19.89"
	327.70	1.94	126.81	327.62	5.57	-4.96	2.54	-812.48	0.46	5.57	152.85	357,679.21	1,618,808.09	N 39°28'31.44"	W 80°44'19.88"
	377.70	1.88	119.46	377.59	7.04	-5.87	3.93	-762.51	0.50	7.07	146.17	357,678.30	1,618,809.49	N 39°28'31.43"	W 80°44'19.86"
Last Gyro Surveys	421.70	1.74	103.25	421.57	8.10	-6.38	5.21	-718.53	1.20	8.24	140.74	357,677.80	1,618,810.76	N 39°28'31.43"	W 80°44'19.84"
First 3rd Party Survey	495.00	2.18	90.26	494.82	9.52	-6.64	7.69	-645.28	0.85	10.16	130.80	357,677.53	1,618,813.24	N 39°28'31.43"	W 80°44'19.81"
	587.00	2.57	84.02	586.74	11.16	-6.43	11.49	-553.36	0.51	13.17	119.24	357,677.74	1,618,817.04	N 39°28'31.43"	W 80°44'19.76"
	680.00	2.88	84.04	679.64	12.88	-5.97	15.89	-460.46	0.33	16.97	110.60	357,678.20	1,618,821.44	N 39°28'31.43"	W 80°44'19.70"
	772.00	2.00	89.43	771.55	14.53	-5.72	19.79	-368.55	0.99	20.60	106.11	357,678.46	1,618,825.34	N 39°28'31.44"	W 80°44'19.65"
	865.00	0.37	107.87	864.53	15.51	-5.79	21.70	-275.57	1.78	22.46	104.95	357,678.38	1,618,827.25	N 39°28'31.44"	W 80°44'19.63"
	957.00	0.23	203.99	956.53	15.84	-6.05	21.91	-183.57	0.50	22.73	105.44	357,678.12	1,618,827.46	N 39°28'31.44"	W 80°44'19.63"
	1,050.00	0.08	192.36	1,049.53	16.00	-6.29	21.82	-90.57	0.16	22.71	106.07	357,677.89	1,618,827.37	N 39°28'31.43"	W 80°44'19.63"
	1,142.00	0.27	175.63	1,141.53	16.25	-6.57	21.82	1.43	0.21	22.79	106.74	357,677.61	1,618,827.37	N 39°28'31.43"	W 80°44'19.63"
	1,235.00	0.22	172.46	1,234.53	16.61	-6.96	21.86	94.43	0.06	22.94	107.66	357,677.21	1,618,827.41	N 39°28'31.43"	W 80°44'19.63"
	1,328.00	0.46	218.16	1,327.53	16.93	-7.43	21.66	187.43	0.37	22.90	108.94	357,676.74	1,618,827.21	N 39°28'31.42"	W 80°44'19.63"
	1,420.00	0.57	239.01	1,419.52	17.09	-7.96	21.04	279.42	0.23	22.49	110.72	357,676.22	1,618,826.58	N 39°28'31.42"	W 80°44'19.64"
	1,512.00	0.57	249.65	1,511.52	17.04	-8.35	20.21	371.42	0.11	21.87	112.45	357,675.82	1,618,825.76	N 39°28'31.41"	W 80°44'19.65"
	1,605.00	0.81	253.40	1,604.51	16.84	-8.70	19.15	464.41	0.26	21.03	114.43	357,675.47	1,618,824.70	N 39°28'31.41"	W 80°44'19.66"
	1,697.00	0.75	239.72	1,696.50	16.71	-9.19	18.01	556.40	0.21	20.22	117.04	357,674.98	1,618,823.56	N 39°28'31.40"	W 80°44'19.68"
	1,790.00	0.95	215.74	1,789.49	17.06	-10.12	17.03	649.39	0.43	19.81	120.73	357,674.05	1,618,822.58	N 39°28'31.39"	W 80°44'19.69"
	1,883.00	2.01	173.71	1,882.46	18.90	-12.37	16.76	742.36	1.56	20.83	126.43	357,671.80	1,618,822.31	N 39°28'31.37"	W 80°44'19.69"
	1,975.00	2.36	162.02	1,974.40	22.26	-15.78	17.52	834.30	0.61	23.58	132.00	357,668.40	1,618,823.07	N 39°28'31.34"	W 80°44'19.68"
	2,068.00	1.35	159.02	2,067.35	25.22	-18.62	18.50	927.25	1.09	26.25	135.18	357,665.55	1,618,824.05	N 39°28'31.31"	W 80°44'19.67"
	2,160.00	0.45	159.46	2,159.34	26.65	-19.97	19.02	1,019.24	0.98	27.58	136.40	357,664.20	1,618,824.57	N 39°28'31.30"	W 80°44'19.66"

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2,252.00	0.29	148.93	2,251.33	27.24	-20.51	19.27	1,111.23	0.19	28.14	136.79	357,663.67	1,618,824.82	N 39°28'31.29"	W 80°44'19.66"
2,345.00	0.26	174.79	2,344.33	27.67	-20.92	19.41	1,204.23	0.14	28.53	137.15	357,663.26	1,618,824.96	N 39°28'31.29"	W 80°44'19.66"
2,428.00	0.28	181.42	2,427.33	28.02	-21.31	19.42	1,287.23	0.04	28.83	137.66	357,662.87	1,618,824.97	N 39°28'31.28"	W 80°44'19.66"
2,502.00	0.24	198.48	2,501.33	28.28	-21.64	19.36	1,361.23	0.12	29.04	138.17	357,662.54	1,618,824.91	N 39°28'31.28"	W 80°44'19.66"
2,533.00	0.20	202.60	2,532.33	28.36	-21.75	19.32	1,392.23	0.14	29.09	138.38	357,662.87	1,618,824.87	N 39°28'31.28"	W 80°44'19.66"
2,625.00	3.17	317.67	2,624.28	25.99	-20.02	17.55	1,484.18	3.54	26.62	138.76	357,664.16	1,618,823.10	N 39°28'31.30"	W 80°44'19.68"
2,718.00	4.89	295.11	2,717.06	20.29	-16.43	12.23	1,576.96	2.48	20.48	143.35	357,667.74	1,618,817.78	N 39°28'31.33"	W 80°44'19.75"
2,810.00	5.83	281.15	2,808.66	14.12	-13.86	4.09	1,668.56	1.74	14.46	163.56	357,670.31	1,618,809.64	N 39°28'31.37"	W 80°44'19.85"
2,902.00	5.29	276.71	2,900.22	8.67	-12.47	-4.71	1,760.12	0.75	13.32	200.68	357,671.71	1,618,800.85	N 39°28'31.37"	W 80°44'19.97"
2,995.00	4.64	261.86	2,992.88	4.86	-12.50	-12.09	1,852.78	1.54	17.81	225.43	357,671.68	1,618,792.86	N 39°28'31.37"	W 80°44'20.07"
3,087.00	5.01	240.24	3,084.56	3.62	-15.02	-19.86	1,944.46	2.00	24.90	232.90	357,669.16	1,618,785.69	N 39°28'31.34"	W 80°44'20.16"
3,180.00	5.46	238.30	3,177.17	3.93	-19.36	-27.15	2,037.07	0.52	33.34	234.51	357,664.82	1,618,778.40	N 39°28'31.30"	W 80°44'20.25"
3,272.00	5.91	242.00	3,268.72	4.09	-23.88	-35.05	2,128.62	0.63	42.42	235.73	357,660.29	1,618,770.50	N 39°28'31.25"	W 80°44'20.35"
3,365.00	4.95	236.06	3,361.32	4.38	-28.28	-42.48	2,221.22	1.38	51.03	236.34	357,655.88	1,618,763.08	N 39°28'31.21"	W 80°44'20.44"
3,457.00	5.54	242.08	3,452.95	4.66	-32.49	-49.56	2,312.85	1.04	59.26	236.76	357,651.69	1,618,755.99	N 39°28'31.16"	W 80°44'20.53"
3,550.00	6.26	248.53	3,545.45	3.96	-36.44	-58.25	2,405.35	1.05	68.71	237.97	357,647.73	1,618,747.31	N 39°28'31.12"	W 80°44'20.64"
3,642.00	5.75	250.32	3,636.95	2.60	-39.83	-67.25	2,496.85	0.59	78.16	239.36	357,644.34	1,618,738.30	N 39°28'31.09"	W 80°44'20.76"
3,735.00	7.01	255.86	3,729.37	0.44	-42.79	-77.14	2,589.27	1.51	88.22	240.98	357,641.39	1,618,728.41	N 39°28'31.06"	W 80°44'20.88"
3,827.00	6.35	254.75	3,820.75	-2.16	-45.50	-87.50	2,680.65	0.73	98.62	242.53	357,638.68	1,618,718.06	N 39°28'31.03"	W 80°44'21.02"
3,919.00	5.57	251.46	3,912.25	-4.14	-48.26	-96.64	2,772.15	0.93	108.02	243.46	357,635.92	1,618,708.92	N 39°28'31.00"	W 80°44'21.13"
4,012.00	6.50	251.95	4,004.73	-5.91	-51.32	-105.92	2,864.63	1.00	117.70	244.15	357,632.85	1,618,699.63	N 39°28'30.97"	W 80°44'21.25"
4,105.00	5.82	247.96	4,097.20	-7.44	-54.72	-115.30	2,957.10	0.96	127.63	244.61	357,629.45	1,618,690.26	N 39°28'30.94"	W 80°44'21.37"
4,197.00	5.09	245.90	4,186.78	-8.31	-58.14	-123.35	3,048.68	0.82	136.36	244.76	357,626.04	1,618,682.21	N 39°28'30.90"	W 80°44'21.47"
4,290.00	5.76	247.22	4,281.36	-9.13	-61.63	-131.42	3,141.26	0.73	145.15	244.87	357,622.55	1,618,674.14	N 39°28'30.86"	W 80°44'21.57"
4,382.00	4.91	242.08	4,372.96	-9.66	-65.26	-139.15	3,232.86	1.06	153.70	244.87	357,618.92	1,618,666.41	N 39°28'30.83"	W 80°44'21.67"
4,475.00	5.57	241.21	4,465.57	-9.72	-69.30	-146.62	3,325.47	0.71	162.18	244.70	357,614.88	1,618,658.94	N 39°28'30.79"	W 80°44'21.77"
4,567.00	6.27	242.29	4,557.08	-9.80	-73.79	-154.98	3,416.98	0.77	171.65	244.54	357,610.39	1,618,650.57	N 39°28'30.74"	W 80°44'21.87"
4,660.00	5.50	240.15	4,649.59	-9.80	-82.94	-163.35	3,508.49	0.96	181.17	244.37	357,605.81	1,618,642.21	N 39°28'30.70"	W 80°44'21.98"
4,752.00	6.48	242.73	4,741.09	-9.85	-86.37	-171.79	3,600.99	1.10	190.76	244.23	357,601.24	1,618,633.78	N 39°28'30.65"	W 80°44'22.08"
4,845.00	6.04	239.69	4,833.53	-9.85	-87.81	-180.67	3,693.43	0.59	200.88	244.08	357,596.37	1,618,624.89	N 39°28'30.60"	W 80°44'22.20"
4,937.00	6.14	249.09	4,925.02	-10.39	-92.01	-189.45	3,784.92	1.09	210.61	244.10	357,592.17	1,618,616.11	N 39°28'30.56"	W 80°44'22.31"
5,030.00	5.46	248.60	5,017.54	-11.63	-95.40	-198.21	3,877.44	0.73	219.98	244.30	357,588.78	1,618,607.35	N 39°28'30.52"	W 80°44'22.42"
5,122.00	4.00	241.15	5,109.23	-12.18	-98.55	-205.10	3,969.13	1.72	227.55	244.34	357,585.63	1,618,600.46	N 39°28'30.49"	W 80°44'22.51"
5,214.00	5.69	245.79	5,200.89	-12.53	-101.97	-212.07	4,060.79	1.88	235.31	244.32	357,582.31	1,618,593.49	N 39°28'30.46"	W 80°44'22.59"
5,306.00	5.46	241.12	5,292.46	-12.88	-105.95	-220.06	4,152.36	0.55	244.24	244.29	357,578.23	1,618,585.50	N 39°28'30.41"	W 80°44'22.70"
5,398.00	6.26	248.38	5,384.97	-13.50	-109.95	-228.65	4,244.87	1.17	253.72	244.32	357,574.23	1,618,576.91	N 39°28'30.37"	W 80°44'22.80"
5,491.00	5.43	245.93	5,476.49	-14.47	-113.58	-237.29	4,336.39	0.94	263.07	244.42	357,570.60	1,618,568.28	N 39°28'30.34"	W 80°44'22.91"
5,583.00	6.47	249.88	5,568.00	-15.60	-117.14	-246.13	4,427.90	1.21	272.58	244.55	357,567.04	1,618,559.43	N 39°28'30.30"	W 80°44'23.03"
5,675.00	6.11	248.64	5,659.44	-17.00	-120.70	-255.56	4,519.34	0.42	282.63	244.72	357,563.48	1,618,550.01	N 39°28'30.26"	W 80°44'23.15"
5,751.00	4.91	247.41	5,735.09	-17.87	-123.43	-262.33	4,594.99	1.59	289.91	244.80	357,559.61	1,618,543.24	N 39°28'30.24"	W 80°44'23.23"
5,787.00	4.51	246.86	5,770.97	-18.17	-124.57	-265.05	4,630.87	1.12	292.87	244.83	357,559.61	1,618,540.51	N 39°28'30.22"	W 80°44'23.27"
5,880.00	5.31	251.67	5,863.63	-19.31	-127.36	-272.50	4,723.53	0.96	300.79	244.95	357,556.82	1,618,533.07	N 39°28'30.20"	W 80°44'23.36"
5,972.00	6.91	251.03	5,955.10	-21.01	-130.50	-281.77	4,815.00	1.74	310.52	245.15	357,553.68	1,618,523.80	N 39°28'30.16"	W 80°44'23.48"
6,064.00	7.76	239.64	6,046.35	-21.78	-135.44	-292.36	4,906.25	1.83	322.21	245.14	357,548.74	1,618,513.21	N 39°28'30.11"	W 80°44'23.61"
6,156.00	8.64	238.79	6,137.41	-21.30	-142.16	-303.63	4,997.31	0.97	335.26	244.91	357,542.02	1,618,501.94	N 39°28'30.05"	W 80°44'23.75"
6,249.00	11.39	213.21	6,229.03	-16.67	-153.47	-314.64	5,088.33	5.55	350.07	244.00	357,530.71	1,618,490.93	N 39°28'29.93"	W 80°44'23.89"
6,341.00	16.32	180.51	6,318.46	-1.09	-174.04	-319.74	5,178.36	9.85	364.04	241.44	357,510.15	1,618,485.83	N 39°28'29.73"	W 80°44'23.95"
6,433.00	21.54	163.20	6,405.52	26.75	-203.17	-314.97	5,265.42	8.28	374.81	237.18	357,481.02	1,618,480.60	N 39°28'29.44"	W 80°44'23.89"
6,525.00	25.38	155.40	6,489.92	62.96	-237.28	-301.87	5,349.82	5.97	383.96	231.83	357,446.90	1,618,503.70	N 39°28'29.11"	W 80°44'23.49"
6,618.00	29.91	157.25	6,572.29	105.92	-276.81	-284.59	5,432.19	4.96	397.01	225.79	357,407.38	1,618,520.97	N 39°28'28.72"	W 80°44'23.49"
6,710.00	36.95	160.55	6,649.02	196.09	-324.10	-266.49	5,508.92	7.90	419.60	219.43	357,360.09	1,618,539.07	N 39°28'28.25"	W 80°44'23.25"
6,803.00	44.54	159.38	6,719.43	216.06	-381.07	-245.67	5,579.33	8.21	453.40	212.81	357,303.13	1,618,559.90	N 39°28'27.69"	W 80°44'22.97"
6,895.00	52.67	151.76	6,780.26	284.75	-443.65	-216.93	5,640.16	10.78	483.85	206.06	357,240.55	1,618,588.63	N 39°28'27.08"	W 80°44'22.60"
6,988.00	60.14	151.20	6,831.69	362.16	-511.66	-179.96	5,691.59	8.05	542.38	199.38	357,172.54	1,618,625.60	N 39°28'26.41"	W 80°44'22.11"
7,080.00	68.22	151.13	6,871.73	444.90	-660.74	-140.05	5,731.63	8.79	600.70	193.48	357,100.06	1,618,665.51	N 39°28'25.70"	W 80°44'21.59"
7,172.00	76.50	150.83	6,899.59	532.50	-739.02	-51.75	5,759.49	9.00	667.90	188.40	357,023.47	1,618,708.00	N 39°28'24.95"	W 80°44'21.04"
7,264.00	84.83	148.53	6,914.50	623.16	-818.21	-3.25	5,774.40	9.38	740.83	184.01	356,945.20	1,618,753.80	N 39°28'24.18"	W 80°44'20.44"
7,357.00	89.37	148.50	6,919.21	715.91	-897.46	43.36	5,782.01	3.40	898.51	177.23	356,866.01	1,618,802.30	N 39°28'23.41"	W 80°44'19.81"
7,449.00	87.03	150.58	6,922.11	807.81								1,618,848.91	N 39°28'22.63"	W 80°44'19.20"

Last 3rd Party Survey
First SLB MWD Survey

08/29/2025

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7,541.00	87.31	153.49	6,926.65	899.68	-978.61	86.44	5,786.55	3.17	982.42	174.95	356,705.62	1,618,891.99	N 39°28'21.83"	W 80°44'18.63"
7,633.00	87.21	152.37	6,931.06	991.53	-1,060.43	128.26	5,790.96	1.22	1,068.16	173.10	356,623.80	1,618,933.81	N 39°28'21.03"	W 80°44'18.09"
7,725.00	87.89	149.71	6,934.99	1,083.44	-1,140.85	172.77	5,794.89	2.98	1,153.85	171.39	356,543.39	1,618,978.31	N 39°28'20.24"	W 80°44'17.50"
7,817.00	90.43	149.86	6,936.34	1,175.39	-1,220.33	219.06	5,796.24	2.77	1,239.84	169.82	356,463.91	1,619,024.59	N 39°28'19.46"	W 80°44'16.90"
7,910.00	90.12	149.41	6,935.89	1,268.35	-1,300.57	266.07	5,795.79	0.58	1,327.51	168.44	356,383.67	1,619,071.60	N 39°28'18.68"	W 80°44'16.29"
8,002.00	90.05	149.31	6,935.75	1,360.30	-1,379.73	312.95	5,795.65	0.13	1,414.78	167.22	356,304.52	1,619,118.48	N 39°28'17.90"	W 80°44'15.68"
8,094.00	90.24	149.23	6,935.51	1,452.24	-1,458.82	359.96	5,795.41	0.22	1,502.57	166.14	356,225.44	1,619,165.49	N 39°28'17.12"	W 80°44'15.06"
8,187.00	89.53	150.16	6,935.70	1,545.21	-1,539.11	406.88	5,795.60	1.26	1,591.98	165.19	356,145.15	1,619,212.41	N 39°28'16.34"	W 80°44'14.45"
8,279.00	89.69	150.51	6,936.33	1,637.19	-1,619.05	452.41	5,796.23	0.41	1,681.07	164.39	356,065.22	1,619,257.94	N 39°28'15.55"	W 80°44'13.86"
8,371.00	89.55	149.04	6,936.93	1,729.16	-1,698.54	498.72	5,796.83	1.60	1,770.24	163.64	355,985.73	1,619,304.24	N 39°28'14.77"	W 80°44'13.25"
8,464.00	89.66	149.35	6,937.57	1,822.09	-1,778.42	546.34	5,797.47	0.35	1,860.45	162.92	355,905.86	1,619,351.86	N 39°28'13.99"	W 80°44'12.63"
8,556.00	89.36	149.56	6,938.35	1,914.04	-1,857.65	593.10	5,798.25	0.40	1,950.03	162.29	355,826.64	1,619,398.62	N 39°28'13.21"	W 80°44'12.02"
8,648.00	89.57	149.51	6,939.21	2,006.00	-1,936.94	639.75	5,799.11	0.23	2,039.85	161.72	355,747.35	1,619,445.26	N 39°28'12.44"	W 80°44'11.41"
8,741.00	89.55	148.69	6,939.93	2,098.93	-2,016.74	687.50	5,799.83	0.88	2,130.70	161.18	355,667.55	1,619,493.01	N 39°28'11.66"	W 80°44'10.79"
8,833.00	89.56	150.27	6,940.65	2,190.88	-2,095.98	734.22	5,800.55	1.71	2,220.86	160.69	355,588.31	1,619,539.73	N 39°28'10.88"	W 80°44'10.18"
8,925.00	89.62	149.68	6,941.31	2,282.85	-2,175.64	780.25	5,801.21	0.64	2,311.32	160.27	355,508.66	1,619,585.76	N 39°28'10.10"	W 80°44'9.58"
9,017.00	89.48	149.61	6,942.04	2,374.81	-2,255.02	826.75	5,801.94	0.17	2,401.80	159.87	355,429.28	1,619,632.25	N 39°28'9.32"	W 80°44'8.97"
9,109.00	89.65	149.23	6,942.74	2,466.76	-2,334.22	873.55	5,802.64	0.45	2,492.33	159.48	355,350.09	1,619,679.05	N 39°28'8.54"	W 80°44'8.36"
9,201.00	89.52	148.87	6,943.41	2,558.69	-2,413.12	920.87	5,803.31	0.41	2,582.86	159.11	355,271.19	1,619,726.37	N 39°28'7.77"	W 80°44'7.74"
9,293.00	89.60	150.38	6,944.12	2,650.65	-2,492.49	967.39	5,804.02	1.64	2,673.63	158.79	355,191.83	1,619,772.88	N 39°28'6.99"	W 80°44'7.14"
9,385.00	89.50	149.12	6,944.85	2,742.61	-2,571.95	1,013.73	5,804.75	1.37	2,764.53	158.49	355,112.37	1,619,819.22	N 39°28'6.21"	W 80°44'6.53"
9,478.00	89.47	151.30	6,945.68	2,835.58	-2,652.66	1,059.93	5,805.58	2.35	2,856.58	158.22	355,031.67	1,619,865.42	N 39°28'5.42"	W 80°44'5.93"
9,570.00	89.62	148.95	6,946.41	2,927.56	-2,732.43	1,105.75	5,806.31	2.57	2,947.68	157.97	354,951.91	1,619,911.23	N 39°28'4.64"	W 80°44'5.33"
9,662.00	89.92	148.44	6,946.78	3,019.46	-2,811.03	1,153.56	5,806.68	0.64	3,038.51	157.69	354,873.31	1,619,959.04	N 39°28'3.87"	W 80°44'4.71"
9,754.00	90.24	152.40	6,946.66	3,111.43	-2,891.02	1,198.96	5,806.56	4.32	3,129.78	157.48	354,793.32	1,620,004.44	N 39°28'3.09"	W 80°44'4.11"
9,847.00	89.52	148.20	6,946.85	3,204.40	-2,971.79	1,245.03	5,806.75	4.59	3,222.05	157.27	354,712.56	1,620,050.51	N 39°28'2.29"	W 80°44'3.51"
10,031.00	89.99	149.56	6,947.63	3,388.23	-3,129.30	1,340.12	5,807.53	0.79	3,404.18	156.82	354,635.06	1,620,145.59	N 39°28'0.75"	W 80°44'2.27"
10,123.00	89.75	149.32	6,947.84	3,480.18	-3,208.52	1,386.90	5,807.74	0.37	3,495.44	156.62	354,475.84	1,620,192.37	N 39°27'59.97"	W 80°44'1.66"
10,216.00	89.63	149.35	6,948.34	3,573.13	-3,288.52	1,434.33	5,808.24	0.14	3,587.71	156.44	354,395.85	1,620,239.79	N 39°27'59.19"	W 80°44'1.04"
10,308.00	89.77	149.96	6,948.82	3,665.09	-3,367.91	1,480.80	5,808.72	0.68	3,679.08	156.27	354,316.46	1,620,286.27	N 39°27'58.41"	W 80°44'0.44"
10,400.00	89.85	149.87	6,949.13	3,757.07	-3,447.52	1,526.91	5,809.03	0.13	3,770.53	156.11	354,236.85	1,620,332.38	N 39°27'57.63"	W 80°43'59.83"
10,492.00	89.67	149.40	6,949.52	3,849.03	-3,526.90	1,573.42	5,809.42	0.55	3,861.95	155.96	354,157.48	1,620,378.88	N 39°27'56.85"	W 80°43'59.23"
10,585.00	89.60	149.08	6,950.11	3,941.97	-3,606.81	1,620.99	5,810.01	0.35	3,954.33	155.80	354,077.57	1,620,426.45	N 39°27'56.07"	W 80°43'58.61"
10,677.00	89.83	149.85	6,950.57	4,033.92	-3,686.05	1,667.73	5,810.47	0.88	4,045.77	155.66	353,998.33	1,620,473.18	N 39°27'55.29"	W 80°43'58.00"
10,769.00	89.69	151.02	6,950.95	4,125.91	-3,766.07	1,713.12	5,810.85	1.27	4,137.40	155.54	353,918.32	1,620,518.57	N 39°27'54.51"	W 80°43'57.40"
10,861.00	89.32	148.25	6,951.75	4,217.86	-3,845.44	1,759.62	5,811.65	3.04	4,228.91	155.41	353,838.96	1,620,565.07	N 39°27'53.73"	W 80°43'56.80"
10,953.00	89.74	150.71	6,952.51	4,309.80	-3,924.68	1,806.34	5,812.41	2.71	4,320.42	155.29	353,759.72	1,620,611.78	N 39°27'52.95"	W 80°43'56.19"
11,046.00	89.63	149.98	6,953.02	4,402.79	-4,005.50	1,852.35	5,812.92	0.79	4,413.08	155.18	353,678.91	1,620,657.80	N 39°27'52.16"	W 80°43'55.59"
11,139.00	89.39	148.88	6,953.81	4,495.73	-4,085.57	1,899.65	5,813.71	1.21	4,505.61	155.06	353,598.84	1,620,705.09	N 39°27'51.38"	W 80°43'54.97"
11,231.00	89.48	150.73	6,954.72	4,587.70	-4,165.08	1,945.92	5,814.62	2.01	4,597.22	154.96	353,519.34	1,620,751.36	N 39°27'50.60"	W 80°43'54.37"
11,324.00	89.20	149.49	6,955.79	4,680.67	-4,245.70	1,992.26	5,815.69	1.37	4,689.89	154.86	353,438.72	1,620,797.70	N 39°27'49.81"	W 80°43'53.76"
11,416.00	89.24	151.31	6,957.05	4,772.65	-4,325.68	2,037.70	5,816.95	1.98	4,781.60	154.78	353,358.74	1,620,843.13	N 39°27'49.02"	W 80°43'53.17"
11,509.00	89.48	150.26	6,958.08	4,865.64	-4,406.84	2,083.09	5,817.98	1.16	4,874.38	154.70	353,277.58	1,620,888.52	N 39°27'48.23"	W 80°43'52.58"
11,601.00	89.20	149.05	6,959.14	4,957.59	-4,486.23	2,129.57	5,819.04	1.35	4,966.02	154.61	353,198.20	1,620,934.99	N 39°27'47.45"	W 80°43'51.97"
11,694.00	89.48	150.07	6,960.21	5,050.54	-4,566.41	2,176.68	5,820.11	1.15	5,058.66	154.51	353,118.03	1,620,982.11	N 39°27'46.66"	W 80°43'51.35"
11,786.00	89.48	150.32	6,961.04	5,142.52	-4,646.23	2,222.41	5,820.94	0.26	5,150.40	154.44	353,038.21	1,621,027.83	N 39°27'45.88"	W 80°43'50.76"
11,879.00	89.31	148.97	6,962.02	5,235.48	-4,726.48	2,269.40	5,821.92	1.46	5,243.07	154.35	352,957.97	1,621,074.82	N 39°27'45.09"	W 80°43'50.14"
11,971.00	89.70	150.16	6,962.81	5,327.43	-4,805.79	2,316.01	5,822.71	1.36	5,334.75	154.27	352,878.66	1,621,121.42	N 39°27'44.31"	W 80°43'49.54"
12,064.00	89.81	149.25	6,963.21	5,420.40	-4,886.09	2,362.92	5,823.11	0.99	5,427.46	154.19	352,798.37	1,621,168.34	N 39°27'43.53"	W 80°43'48.92"
12,157.00	89.88	148.91	6,963.46	5,513.33	-4,965.87	2,410.71	5,823.36	0.37	5,520.09	154.11	352,718.59	1,621,216.12	N 39°27'42.75"	W 80°43'48.30"
12,250.00	89.42	149.25	6,964.03	5,606.26	-5,045.65	2,458.50	5,823.93	0.62	5,612.74	154.02	352,638.81	1,621,263.90	N 39°27'41.96"	W 80°43'47.68"
12,343.00	89.48	149.80	6,964.92	5,699.21	-5,125.80	2,505.66	5,824.82	0.59	5,705.45	153.95	352,558.67	1,621,311.06	N 39°27'41.18"	W 80°43'47.06"
12,435.00	89.54	148.64	6,965.71	5,791.15	-5,204.84	2,552.74	5,825.61	1.26	5,797.14	153.87	352,479.64	1,621,358.14	N 39°27'40.40"	W 80°43'46.45"
12,528.00	89.44	149.77	6,966.54	5,884.08	-5,284.72	2,600.35	5,826.44	1.22	5,889.83	153.80	352,399.76	1,621,405.75	N 39°27'39.62"	W 80°43'45.83"
12,620.00	89.43	150.42	6,967.45	5,976.06	-5,364.47	2,646.21	5,827.35	0.71	5,981.64	153.74	352,320.01	1,621,451.61	N 39°27'38.84"	W 80°43'45.23"
12,713.00	89.30	149.91	6,968.48	6,069.03	-5,445.14	2,692.47	5,828.38	0.58	6,074.45	153.69	352,239.35	1,621,497.87	N 39°27'38.05"	W 80°43'44.63"
12,805.00	89.45	149.92	6,969.48	6,161.00	-5,524.74	2,738.60	5,829.38	0.17	6,166.25	153.63	352,159.76	1,621,543.99	N 39°27'37.27"	W 80°43'44.02"
12,898.00	89.52	150.00	6,970.31	6,253.97	-5,605.24	2,785.15	5,830.21	0.11	6,259.06	153.58	352,079.26	1,621,590.54	N 39°27'36.48"	W 80°43'43.42"
12,990.00	89.47	149.85	6,971.13	6,345.94	-5,684.85	2,831.25	5,831.03	0.17	6,350.87	153.53	351,999.65	1,621,636.64	N 39°27'35.70"	W 80°43'42.81"

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13,083.00	89.42	149.28	6,972.03	6,438.90	-5,765.03	2,878.37	5,831.93	0.62	6,443.64	153.47	351,919.48	1,621,683.75	N 39°27'34.91"	W 80°43'42.20"
13,175.00	89.81	150.65	6,972.65	6,530.87	-5,844.67	2,924.42	5,832.55	1.55	6,535.47	153.42	351,839.84	1,621,729.80	N 39°27'34.13"	W 80°43'41.60"
13,268.00	89.67	150.74	6,973.07	6,623.86	-5,925.77	2,969.94	5,832.97	0.18	6,628.37	153.38	351,758.75	1,621,775.32	N 39°27'33.33"	W 80°43'41.00"
13,360.00	89.42	150.67	6,973.81	6,715.86	-6,006.00	3,014.95	5,833.71	0.29	6,720.26	153.34	351,678.52	1,621,820.33	N 39°27'32.55"	W 80°43'40.42"
13,453.00	89.58	150.77	6,974.62	6,808.85	-6,087.11	3,060.43	5,834.52	0.20	6,813.16	153.31	351,597.41	1,621,865.81	N 39°27'31.75"	W 80°43'39.82"
13,545.00	89.54	150.68	6,975.33	6,900.84	-6,167.36	3,105.43	5,835.23	0.11	6,905.07	153.27	351,517.17	1,621,910.80	N 39°27'30.97"	W 80°43'39.24"
13,638.00	89.75	150.48	6,975.91	6,993.83	-6,248.36	3,151.11	5,835.81	0.31	6,997.97	153.24	351,436.17	1,621,956.48	N 39°27'30.17"	W 80°43'38.64"
13,730.00	89.07	149.09	6,976.85	7,085.79	-6,327.86	3,197.40	5,836.75	1.68	7,089.79	153.19	351,356.68	1,622,002.77	N 39°27'29.39"	W 80°43'38.03"
13,822.00	89.74	150.13	6,977.81	7,177.75	-6,407.21	3,243.94	5,837.71	1.34	7,181.61	153.15	351,277.33	1,622,049.30	N 39°27'28.61"	W 80°43'37.43"
13,915.00	89.66	150.38	6,978.30	7,270.73	-6,487.96	3,290.08	5,838.20	0.29	7,274.49	153.11	351,196.59	1,622,095.44	N 39°27'27.82"	W 80°43'36.83"
14,007.00	89.62	149.86	6,978.88	7,362.71	-6,567.73	3,335.91	5,838.78	0.58	7,366.36	153.07	351,116.83	1,622,141.27	N 39°27'27.04"	W 80°43'36.23"
14,100.00	89.85	150.37	6,979.31	7,455.69	-6,648.36	3,382.25	5,839.21	0.61	7,459.24	153.04	351,036.20	1,622,187.61	N 39°27'26.25"	W 80°43'35.62"
14,192.00	89.84	150.54	6,979.56	7,547.68	-6,728.40	3,427.61	5,839.46	0.18	7,551.15	153.00	350,956.17	1,622,232.96	N 39°27'25.46"	W 80°43'35.03"
14,285.00	89.82	150.14	6,979.83	7,640.67	-6,809.21	3,473.64	5,839.73	0.44	7,644.05	152.97	350,875.36	1,622,278.99	N 39°27'24.67"	W 80°43'34.43"
14,377.00	89.43	149.48	6,980.43	7,732.64	-6,888.73	3,519.90	5,840.33	0.83	7,735.91	152.93	350,795.85	1,622,325.25	N 39°27'23.89"	W 80°43'33.83"
14,469.00	89.48	149.89	6,981.31	7,824.60	-6,968.14	3,566.34	5,841.21	0.45	7,827.76	152.90	350,716.44	1,622,371.68	N 39°27'23.11"	W 80°43'33.22"
14,562.00	89.54	149.79	6,982.11	7,917.57	-7,048.55	3,613.06	5,842.01	0.13	7,920.62	152.86	350,636.03	1,622,418.40	N 39°27'22.33"	W 80°43'32.61"
14,654.00	89.72	150.18	6,982.70	8,009.54	-7,128.21	3,659.08	5,842.60	0.47	8,012.51	152.83	350,556.38	1,622,464.42	N 39°27'21.54"	W 80°43'32.01"
14,747.00	89.64	150.35	6,983.23	8,102.52	-7,208.96	3,705.21	5,843.13	0.20	8,105.41	152.80	350,475.63	1,622,510.55	N 39°27'20.75"	W 80°43'31.41"
14,839.00	89.57	149.95	6,983.86	8,194.50	-7,288.75	3,751.01	5,843.76	0.44	8,197.31	152.77	350,395.84	1,622,556.34	N 39°27'19.97"	W 80°43'30.81"
14,932.00	89.46	150.23	6,984.65	8,287.48	-7,369.36	3,797.38	5,844.55	0.32	8,290.21	152.74	350,315.24	1,622,602.71	N 39°27'19.18"	W 80°43'30.20"
15,024.00	89.55	150.43	6,985.44	8,379.47	-7,449.30	3,842.92	5,845.34	0.24	8,382.12	152.71	350,235.31	1,622,648.25	N 39°27'18.40"	W 80°43'29.61"
15,117.00	89.39	150.33	6,986.30	8,472.45	-7,530.14	3,888.88	5,846.20	0.20	8,475.04	152.69	350,154.47	1,622,694.21	N 39°27'17.60"	W 80°43'29.01"
15,209.00	89.38	150.53	6,987.28	8,564.44	-7,610.15	3,934.28	5,847.18	0.22	8,566.97	152.66	350,074.46	1,622,739.60	N 39°27'16.82"	W 80°43'28.42"
15,302.00	89.36	150.49	6,988.31	8,657.42	-7,691.10	3,980.05	5,848.21	0.05	8,659.90	152.64	349,993.52	1,622,785.37	N 39°27'16.03"	W 80°43'27.82"
15,394.00	89.55	149.84	6,989.18	8,749.40	-7,770.90	4,025.82	5,849.08	0.74	8,751.81	152.61	349,913.72	1,622,831.13	N 39°27'15.24"	W 80°43'27.22"
15,486.00	89.53	150.24	6,989.93	8,841.38	-7,850.61	4,071.76	5,849.83	0.43	8,843.71	152.59	349,834.02	1,622,877.08	N 39°27'14.46"	W 80°43'26.62"
15,579.00	89.57	150.42	6,990.66	8,934.36	-7,931.41	4,117.80	5,850.56	0.20	8,936.64	152.56	349,753.22	1,622,923.11	N 39°27'13.67"	W 80°43'26.02"
15,671.00	89.49	149.87	6,991.41	9,026.34	-8,011.20	4,163.59	5,851.31	0.60	9,028.55	152.54	349,673.44	1,622,968.90	N 39°27'12.89"	W 80°43'25.43"
15,764.00	89.47	149.56	6,992.25	9,119.30	-8,091.50	4,210.49	5,852.15	0.34	9,121.44	152.51	349,593.14	1,623,015.80	N 39°27'12.10"	W 80°43'24.81"
15,856.00	88.79	149.76	6,993.65	9,211.25	-8,170.89	4,256.96	5,853.55	0.77	9,213.32	152.48	349,513.75	1,623,062.26	N 39°27'11.32"	W 80°43'24.21"
15,948.00	88.75	149.59	6,995.62	9,303.20	-8,250.28	4,303.40	5,855.52	0.19	9,305.18	152.45	349,434.37	1,623,108.70	N 39°27'10.54"	W 80°43'23.60"
16,040.00	89.19	151.49	6,997.28	9,395.17	-8,330.37	4,348.64	5,857.18	2.12	9,397.11	152.43	349,354.28	1,623,153.94	N 39°27'9.76"	W 80°43'23.01"
16,133.00	89.30	151.31	6,998.50	9,488.16	-8,412.02	4,393.15	5,858.40	0.22	9,490.09	152.42	349,272.64	1,623,198.45	N 39°27'8.96"	W 80°43'22.43"
16,226.00	88.95	150.05	6,999.92	9,581.14	-8,493.10	4,438.68	5,859.82	1.41	9,583.04	152.41	349,191.57	1,623,243.98	N 39°27'8.16"	W 80°43'21.83"
16,318.00	88.70	149.02	7,001.80	9,673.08	-8,572.38	4,485.32	5,861.70	1.15	9,674.90	152.38	349,112.29	1,623,290.61	N 39°27'7.38"	W 80°43'21.23"
16,411.00	89.07	149.37	7,003.61	9,766.00	-8,652.24	4,532.93	5,863.51	0.55	9,767.74	152.35	349,032.43	1,623,338.22	N 39°27'6.60"	W 80°43'20.61"
16,503.00	89.01	149.90	7,005.16	9,857.95	-8,731.61	4,579.43	5,865.06	0.58	9,859.63	152.32	348,953.07	1,623,384.72	N 39°27'5.82"	W 80°43'20.00"
16,596.00	88.71	149.54	7,007.01	9,950.90	-8,811.91	4,626.32	5,866.91	0.51	9,952.51	152.30	348,872.78	1,623,431.60	N 39°27'5.04"	W 80°43'19.39"
16,688.00	89.35	149.70	7,008.57	10,042.85	-8,891.26	4,672.84	5,868.47	0.73	10,044.40	152.28	348,793.43	1,623,478.12	N 39°27'4.26"	W 80°43'18.78"
16,781.00	89.05	149.60	7,009.86	10,135.80	-8,971.51	4,719.82	5,869.76	0.34	10,137.29	152.25	348,713.18	1,623,525.10	N 39°27'3.47"	W 80°43'18.17"
16,873.00	89.00	149.67	7,011.42	10,227.75	-9,050.87	4,766.33	5,871.32	0.10	10,229.18	152.23	348,633.82	1,623,571.60	N 39°27'2.69"	W 80°43'17.56"
16,966.00	89.03	149.92	7,013.02	10,320.70	-9,131.23	4,813.11	5,872.92	0.27	10,322.09	152.21	348,553.47	1,623,618.39	N 39°27'1.91"	W 80°43'16.95"
17,058.00	89.05	149.60	7,014.57	10,412.66	-9,210.70	4,859.45	5,874.47	0.35	10,413.99	152.18	348,474.01	1,623,664.72	N 39°27'1.13"	W 80°43'16.35"
17,151.00	88.97	149.63	7,016.18	10,505.61	-9,290.91	4,906.48	5,876.08	0.09	10,506.88	152.16	348,393.80	1,623,711.75	N 39°27'0.34"	W 80°43'15.73"
17,243.00	89.02	150.35	7,017.80	10,597.57	-9,370.57	4,952.48	5,877.70	0.78	10,598.80	152.14	348,314.15	1,623,757.75	N 39°26'59.56"	W 80°43'15.13"
17,335.00	88.88	150.29	7,019.48	10,689.54	-9,450.48	4,998.03	5,879.38	0.16	10,690.74	152.13	348,234.24	1,623,803.29	N 39°26'58.78"	W 80°43'14.54"
17,428.00	89.08	150.33	7,021.14	10,782.51	-9,531.26	5,044.08	5,881.04	0.21	10,783.68	152.11	348,153.46	1,623,849.34	N 39°26'57.98"	W 80°43'13.94"
17,520.00	88.98	150.08	7,022.70	10,874.48	-9,611.09	5,089.79	5,882.60	0.30	10,875.62	152.10	348,073.64	1,623,895.05	N 39°26'57.20"	W 80°43'13.34"
17,613.00	88.85	149.59	7,024.46	10,967.44	-9,691.48	5,136.52	5,884.36	0.54	10,968.53	152.08	347,993.26	1,623,941.77	N 39°26'56.41"	W 80°43'12.73"
17,705.00	88.91	150.10	7,026.25	11,059.39	-9,771.01	5,182.73	5,886.15	0.56	11,060.44	152.06	347,913.73	1,623,987.98	N 39°26'55.63"	W 80°43'12.13"
17,798.00	88.95	150.05	7,027.98	11,152.36	-9,851.60	5,229.11	5,887.88	0.06	11,153.37	152.04	347,833.14	1,624,034.36	N 39°26'54.84"	W 80°43'11.52"
17,890.00	88.95	150.05	7,029.67	11,244.32	-9,931.31	5,275.03	5,889.57	0.01	11,245.30	152.02	347,753.44	1,624,080.27	N 39°26'54.06"	W 80°43'10.92"
17,983.00	88.93	150.05	7,031.39	11,337.28	-10,011.87	5,321.45	5,891.29	0.02	11,338.23	152.01	347,672.88	1,624,126.69	N 39°26'53.27"	W 80°43'10.32"
18,075.00	88.98	150.13	7,033.07	11,429.25	-10,091.61	5,367.31	5,892.97	0.10	11,430.16	151.99	347,593.15	1,624,172.55	N 39°26'52.49"	W 80°43'9.72"
18,167.00	88.87	149.71	7,034.79	11,521.21	-10,171.20	5,413.42	5,894.69	0.47	11,522.09	151.98	347,513.56	1,624,218.66	N 39°26'51.71"	W 80°43'9.12"
18,260.00	89.05	150.47	7,036.48	11,614.17	-10,251.80	5,459.78	5,896.38	0.84	11,615.02	151.96	347,432.96	1,624,265.02	N 39°26'50.92"	W 80°43'8.51"
18,353.00	88.87	150.17	7,038.16	11,707.14	-10,332.59	5,505.82	5,898.06	0.38	11,707.97	151.95	347,352.18	1,624,311.06	N 39°26'50.13"	W 80°43'7.91"
18,445.00	89.12	150.12	7,039.78	11,799.11	-10,412.37	5,551.61	5,899.68	0.27	11,799.91	151.93	347,272.41	1,624,356.84	N 39°26'49.34"	W 80°43'7.32"

18,538.00	89.60	150.64	7,040.82	11,892.09	-10,493.21	5,597.57	5,900.72	0.77	11,892.87	151.92	347,191.57	1,624,402.80	N 39°26'48.55"	W 80°43'6.72"
18,630.00	89.28	150.35	7,041.72	11,984.08	-10,573.28	5,642.88	5,901.62	0.47	11,984.83	151.91	347,111.51	1,624,448.10	N 39°26'47.77"	W 80°43'6.13"
18,723.00	89.15	150.17	7,042.98	12,077.06	-10,654.02	5,689.00	5,902.88	0.24	12,077.79	151.90	347,030.77	1,624,494.23	N 39°26'46.97"	W 80°43'5.52"
18,815.00	89.17	149.58	7,044.33	12,169.02	-10,733.59	5,735.17	5,904.23	0.65	12,169.72	151.88	346,951.21	1,624,540.39	N 39°26'46.19"	W 80°43'4.92"
18,908.00	89.33	149.94	7,045.55	12,261.98	-10,813.92	5,782.01	5,905.45	0.43	12,262.65	151.87	346,870.88	1,624,587.22	N 39°26'45.41"	W 80°43'4.31"
19,000.00	89.55	149.54	7,046.44	12,353.94	-10,893.39	5,828.36	5,906.34	0.49	12,354.58	151.85	346,791.42	1,624,633.58	N 39°26'44.63"	W 80°43'3.71"
19,093.00	90.02	150.20	7,046.79	12,446.91	-10,973.82	5,875.04	5,906.69	0.86	12,447.52	151.84	346,710.99	1,624,680.25	N 39°26'43.84"	W 80°43'3.10"
19,185.00	89.85	149.77	7,046.90	12,538.89	-11,053.49	5,921.06	5,906.80	0.50	12,539.48	151.82	346,631.33	1,624,726.27	N 39°26'43.06"	W 80°43'2.50"
19,278.00	90.45	149.54	7,046.67	12,631.85	-11,133.74	5,968.04	5,906.57	0.69	12,632.41	151.81	346,551.07	1,624,773.25	N 39°26'42.27"	W 80°43'1.88"
19,370.00	88.18	146.91	7,047.77	12,723.70	-11,211.94	6,016.48	5,907.67	3.77	12,724.21	151.78	346,472.88	1,624,821.68	N 39°26'41.50"	W 80°43'1.25"
19,463.00	88.94	149.19	7,050.10	12,816.52	-11,290.82	6,065.67	5,910.00	2.58	12,816.98	151.75	346,394.01	1,624,870.87	N 39°26'40.73"	W 80°43'0.61"
19,555.00	89.57	149.24	7,051.30	12,908.45	-11,369.85	6,112.75	5,911.20	0.69	12,908.88	151.74	346,314.98	1,624,917.95	N 39°26'39.96"	W 80°42'60.00"
19,648.00	91.21	149.50	7,050.67	13,001.40	-11,449.87	6,160.13	5,910.57	1.78	13,001.80	151.72	346,234.96	1,624,965.32	N 39°26'39.17"	W 80°42'59.38"
19,741.00	90.58	149.41	7,049.22	13,094.34	-11,529.96	6,207.39	5,909.12	0.69	13,094.71	151.70	346,154.88	1,625,012.58	N 39°26'38.39"	W 80°42'58.76"
19,833.00	90.06	150.66	7,048.71	13,186.31	-11,609.65	6,253.34	5,908.61	1.48	13,186.67	151.69	346,075.19	1,625,058.53	N 39°26'37.61"	W 80°42'58.17"
19,926.00	89.90	150.19	7,048.74	13,279.30	-11,690.54	6,299.24	5,908.64	0.54	13,279.65	151.68	345,994.31	1,625,104.42	N 39°26'36.81"	W 80°42'57.57"
20,018.00	89.67	150.77	7,049.08	13,371.29	-11,770.59	6,344.57	5,908.98	0.68	13,371.63	151.67	345,914.26	1,625,149.75	N 39°26'36.03"	W 80°42'56.97"
20,110.00	89.46	150.75	7,049.78	13,463.29	-11,850.87	6,389.50	5,909.68	0.23	13,463.61	151.67	345,833.99	1,625,194.68	N 39°26'35.24"	W 80°42'56.39"
20,203.00	89.13	150.72	7,050.92	13,556.27	-11,932.00	6,434.96	5,910.82	0.36	13,556.59	151.66	345,752.87	1,625,240.14	N 39°26'34.44"	W 80°42'55.79"
20,295.00	89.20	150.72	7,052.26	13,648.26	-12,012.23	6,479.95	5,912.16	0.08	13,648.57	151.66	345,672.64	1,625,285.13	N 39°26'33.66"	W 80°42'55.21"
20,388.00	89.08	150.82	7,053.66	13,741.25	-12,093.38	6,525.36	5,913.56	0.17	13,741.55	151.65	345,591.49	1,625,330.53	N 39°26'32.86"	W 80°42'54.61"
20,481.00	89.08	150.48	7,055.16	13,834.23	-12,174.43	6,570.94	5,915.06	0.37	13,834.52	151.64	345,510.45	1,625,376.11	N 39°26'32.07"	W 80°42'54.02"
20,573.00	88.72	150.72	7,056.93	13,926.20	-12,254.57	6,616.10	5,916.83	0.47	13,926.49	151.64	345,430.31	1,625,421.26	N 39°26'31.28"	W 80°42'53.43"
20,665.00	89.28	150.54	7,058.54	14,018.18	-12,334.73	6,661.21	5,918.44	0.64	14,018.46	151.63	345,350.15	1,625,466.37	N 39°26'30.50"	W 80°42'52.84"
20,758.00	89.42	150.19	7,059.61	14,111.17	-12,415.56	6,707.19	5,919.51	0.41	14,111.43	151.62	345,269.33	1,625,512.35	N 39°26'29.70"	W 80°42'52.24"
20,850.00	89.66	150.38	7,060.35	14,203.15	-12,495.46	6,752.80	5,920.25	0.34	14,203.41	151.61	345,189.44	1,625,557.96	N 39°26'28.92"	W 80°42'51.65"
20,942.00	89.34	150.52	7,061.15	14,295.14	-12,575.49	6,798.17	5,921.05	0.38	14,295.38	151.60	345,109.41	1,625,603.33	N 39°26'28.13"	W 80°42'51.05"
21,035.00	89.40	149.61	7,062.17	14,388.11	-12,656.07	6,844.58	5,922.07	0.97	14,388.34	151.59	345,028.83	1,625,649.73	N 39°26'27.34"	W 80°42'50.45"
21,127.00	89.35	150.29	7,063.17	14,480.08	-12,735.71	6,890.64	5,923.07	0.74	14,480.30	151.58	344,949.21	1,625,695.79	N 39°26'26.56"	W 80°42'49.85"
21,219.00	89.42	150.57	7,064.16	14,572.06	-12,815.72	6,936.03	5,924.06	0.31	14,572.28	151.58	344,869.20	1,625,741.18	N 39°26'25.78"	W 80°42'49.26"
21,312.00	89.73	150.77	7,064.84	14,665.06	-12,896.80	6,981.58	5,924.74	0.40	14,665.26	151.57	344,788.12	1,625,786.73	N 39°26'24.98"	W 80°42'48.66"
21,404.00	89.71	150.73	7,065.29	14,757.05	-12,977.07	7,026.54	5,925.19	0.05	14,757.25	151.57	344,707.86	1,625,831.68	N 39°26'24.20"	W 80°42'48.07"
21,497.00	90.17	150.47	7,065.39	14,850.05	-13,058.09	7,072.20	5,925.29	0.57	14,850.24	151.56	344,626.84	1,625,877.34	N 39°26'23.40"	W 80°42'47.48"
21,589.00	89.81	150.46	7,065.41	14,942.04	-13,138.13	7,117.55	5,925.31	0.39	14,942.22	151.55	344,546.81	1,625,922.69	N 39°26'22.62"	W 80°42'46.89"
21,682.00	89.98	150.67	7,065.58	15,035.03	-13,219.12	7,163.26	5,925.48	0.30	15,035.21	151.55	344,465.82	1,625,968.40	N 39°26'21.82"	W 80°42'46.29"
21,774.00	89.92	150.09	7,065.66	15,127.02	-13,299.10	7,208.73	5,925.56	0.64	15,127.19	151.54	344,385.84	1,626,013.86	N 39°26'21.04"	W 80°42'45.70"
21,867.00	89.96	150.23	7,065.76	15,220.00	-13,379.77	7,255.00	5,925.66	0.16	15,220.16	151.53	344,305.18	1,626,060.14	N 39°26'20.25"	W 80°42'45.09"
21,959.00	90.12	150.20	7,065.69	15,311.98	-13,459.61	7,300.71	5,925.59	0.18	15,312.14	151.52	344,225.34	1,626,105.83	N 39°26'19.46"	W 80°42'44.50"
22,052.00	90.19	150.41	7,065.44	15,404.97	-13,540.40	7,346.78	5,925.34	0.24	15,405.11	151.52	344,144.56	1,626,151.90	N 39°26'18.67"	W 80°42'43.90"
22,144.00	89.34	149.95	7,065.81	15,496.95	-13,620.22	7,392.52	5,925.71	1.05	15,497.09	151.51	344,064.74	1,626,197.65	N 39°26'17.89"	W 80°42'43.30"
22,236.00	89.94	150.40	7,066.39	15,588.93	-13,700.03	7,438.28	5,926.29	0.81	15,589.06	151.50	343,984.94	1,626,243.40	N 39°26'17.11"	W 80°42'42.70"
22,329.00	89.68	150.27	7,066.70	15,681.92	-13,780.84	7,484.31	5,926.60	0.31	15,682.04	151.49	343,904.13	1,626,289.43	N 39°26'16.31"	W 80°42'42.10"
22,421.00	89.78	150.26	7,067.13	15,773.90	-13,860.73	7,529.94	5,927.03	0.11	15,774.02	151.49	343,824.25	1,626,335.05	N 39°26'15.53"	W 80°42'41.51"
22,514.00	89.77	150.58	7,067.49	15,866.89	-13,941.61	7,575.84	5,927.39	0.35	15,867.00	151.48	343,743.37	1,626,380.95	N 39°26'14.74"	W 80°42'40.91"
22,607.00	90.07	150.68	7,067.62	15,959.89	-14,022.65	7,621.45	5,927.52	0.34	15,959.99	151.48	343,662.33	1,626,426.56	N 39°26'13.94"	W 80°42'40.31"
22,699.00	89.93	150.53	7,067.62	16,051.88	-14,102.81	7,666.61	5,927.52	0.22	16,051.98	151.47	343,582.18	1,626,471.72	N 39°26'13.16"	W 80°42'39.72"
22,792.00	89.92	150.29	7,067.74	16,144.87	-14,183.68	7,712.54	5,927.64	0.25	16,144.96	151.46	343,501.32	1,626,517.64	N 39°26'12.36"	W 80°42'39.12"
22,884.00	89.95	150.12	7,067.84	16,236.85	-14,263.52	7,758.25	5,927.74	0.19	16,236.94	151.46	343,421.48	1,626,563.35	N 39°26'11.58"	W 80°42'38.53"
22,977.00	89.89	149.47	7,067.96	16,329.82	-14,343.89	7,805.04	5,927.86	0.70	16,329.90	151.45	343,341.11	1,626,610.14	N 39°26'10.79"	W 80°42'37.92"
23,069.00	89.86	149.81	7,068.16	16,421.79	-14,423.27	7,851.53	5,928.06	0.36	16,421.86	151.44	343,261.73	1,626,656.63	N 39°26'10.01"	W 80°42'37.31"
23,162.00	89.89	150.18	7,068.36	16,514.76	-14,503.81	7,898.04	5,928.26	0.40	16,514.83	151.43	343,181.20	1,626,703.14	N 39°26'9.22"	W 80°42'36.71"
23,254.00	89.85	149.88	7,068.57	16,606.74	-14,583.51	7,944.00	5,928.47	0.33	16,606.80	151.42	343,101.51	1,626,749.09	N 39°26'8.44"	W 80°42'36.11"
23,347.00	89.96	150.42	7,068.72	16,699.72	-14,664.17	7,990.28	5,928.62	0.58	16,699.78	151.41	343,020.85	1,626,795.37	N 39°26'7.65"	W 80°42'35.50"
23,439.00	89.95	150.05	7,068.80	16,791.71	-14,744.03	8,035.96	5,928.70	0.39	16,791.76	151.41	342,940.99	1,626,841.04	N 39°26'6.87"	W 80°42'34.91"
23,531.00	89.83	149.80	7,068.98	16,883.68	-14,823.65	8,082.05	5,928.88	0.30	16,883.73	151.40	342,861.38	1,626,887.14	N 39°26'6.09"	W 80°42'34.31"
23,624.00	89.85	149.91	7,069.23	16,976.65	-14,904.07	8,128.76	5,929.13	0.12	16,976.69	151.39	342,780.96	1,626,933.84	N 39°26'5.30"	W 80°42'33.70"
23,716.00	89.96	150.35	7,069.38	17,068.64	-14,983.85	8,174.57	5,929.28	0.50	17,068.67	151.38	342,701.19	1,626,979.65	N 39°26'4.52"	W 80°42'33.10"
23,809.00	89.86	149.65	7,069.53	17,161.61	-15,064.40	8,221.07	5,929.43	0.76	17,161.64	151.38	342,620.65	1,627,026.14	N 39°26'3.73"	W 80°42'32.49"
23,901.00	89.94	150.21	7,069.69	17,253.59	-15,144.02	8,267.16	5,929.59	0.62	17,253.61	151.37	342,541.03	1,627,072.23	N 39°26'2.95"	W 80°42'31.89"

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	23,994.00	89.82	150.06	7,069.89	17,346.57	-15,224.67	8,313.46	5,929.79	0.21	17,346.59	151.36	342,460.39	1,627,118.53	N 39°26'2.16"	W 80°42'31.29"
	24,086.00	89.89	150.27	7,070.12	17,438.55	-15,304.48	8,359.23	5,930.02	0.24	17,438.57	151.36	342,380.58	1,627,164.30	N 39°26'1.37"	W 80°42'30.69"
	24,179.00	89.86	149.78	7,070.32	17,531.53	-15,385.04	8,405.69	5,930.22	0.53	17,531.55	151.35	342,300.02	1,627,210.75	N 39°26'0.58"	W 80°42'30.08"
	24,271.00	89.93	150.32	7,070.49	17,623.51	-15,464.76	8,451.61	5,930.39	0.59	17,623.52	151.34	342,220.31	1,627,256.67	N 39°25'59.80"	W 80°42'29.49"
	24,363.00	89.92	150.45	7,070.61	17,715.50	-15,544.74	8,497.07	5,930.51	0.14	17,715.51	151.34	342,140.33	1,627,302.13	N 39°25'59.02"	W 80°42'28.89"
	24,456.00	89.85	150.38	7,070.80	17,808.49	-15,625.61	8,542.99	5,930.70	0.11	17,808.50	151.33	342,059.46	1,627,348.05	N 39°25'58.22"	W 80°42'28.29"
	24,548.00	89.86	149.80	7,071.04	17,900.47	-15,705.36	8,588.87	5,930.94	0.62	17,900.47	151.33	341,979.72	1,627,393.92	N 39°25'57.44"	W 80°42'27.70"
	24,640.00	89.82	150.17	7,071.29	17,992.44	-15,785.02	8,634.89	5,931.19	0.40	17,992.45	151.32	341,900.06	1,627,439.94	N 39°25'56.66"	W 80°42'27.10"
	24,733.00	90.12	150.57	7,071.34	18,085.43	-15,865.86	8,680.86	5,931.24	0.54	18,085.44	151.32	341,819.23	1,627,485.91	N 39°25'55.87"	W 80°42'26.50"
	24,825.00	89.78	150.33	7,071.41	18,177.42	-15,945.90	8,726.23	5,931.31	0.45	18,177.43	151.31	341,739.20	1,627,531.28	N 39°25'55.08"	W 80°42'25.90"
	24,917.00	89.50	150.31	7,071.98	18,269.41	-16,025.83	8,771.79	5,931.88	0.31	18,269.41	151.31	341,659.27	1,627,576.83	N 39°25'54.30"	W 80°42'25.31"
Last SLB MWD Survey	25,009.00	89.67	150.33	7,072.65	18,361.39	-16,105.75	8,817.34	5,932.55	0.19	18,361.39	151.30	341,579.35	1,627,622.38	N 39°25'53.52"	W 80°42'24.72"
Projection to TD	25,040.00	89.67	150.33	7,072.83	18,392.39	-16,132.69	8,832.68	5,932.73	0.01	18,392.39	151.30	341,552.42	1,627,637.72	N 39°25'53.25"	W 80°42'24.52" 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	421.700	Act Sns		A020Ga_GYRO-NS		Sleepy 2X / Sleepy 2X Gyro+MWD 0ft-25040ft
	1	421.700	5,751.000	Act Sns		A001Mb_MWD		Sleepy 2X / Sleepy 2X Gyro+MWD 0ft-25040ft
	1	5,751.000	25,040.000	Act Sns		B001Mb_MWD+HRG		Sleepy 2X / Sleepy 2X Gyro+MWD 0ft-25040ft

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
421.700	17.500	13.375	
2,428.000	12.250	9.625	
5,751.000	8.750		
25,040.000	8.500		

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