

EQT (Chevron Data) 02-13-21

Marshall County, WV Chevron

Hines A

Hines A 12H L-016547

OH

Design: Hines M12H As Drilled

Survey Report - Geographic

28 April, 2025

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Office Of Oil and Gas
NOV 6 2025
WV Department of
Environmental Protection

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01/23/2026

Survey Report - Geographic

Company: EQT (Chevron Data) 02-13-21
 Project: Marshall County, WV Chevron
 Site: Hines A
 Well: Hines A 12H L-016547
 Wellbore: OH
 Design: Hines M12H As Drilled

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well Hines A 12H L-016547
 KB@28 @ 1152.0usft
 KB@28 @ 1152.0usft
 Grid
 Minimum Curvature
 EQT

NOV 6 2025
 WV Department of
 Environmental Protection

Project: Marshall County, WV Chevron

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: West Virginia Northern Zone
 System Datum: Mean Sea Level

Site: Hines A

Site Position: Northing: 514,501.04 usft Latitude: 39° 54' 22.993 N
 From: Map Easting: 1,631,895.93 usft Longitude: 80° 41' 59.689 W
 Position Uncertainty: 1.5 usft Slot Radius: 13-3/16 " Grid Convergence: -0.77 "

Well: Hines A 12H L-016547

Well Position: +N/-S 0.0 usft Northing: 514,465.85 usft Latitude: 39° 54' 22.670 N
 +E/-W 0.0 usft Easting: 1,632,085.72 usft Longitude: 80° 41' 57.247 W
 Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 1,124.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	4/7/2025	-8.69	66.25	51,414.42883926

Design: Hines M12H As Drilled

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	156.99

Survey Program Date: 4/28/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
104.0	419.0	Keeper Gyro (OH)	SDI Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
504.0	5,832.0	Survey #2 (OH)	MWD c	MWD - Standard c
5,893.0	13,787.0	Survey #3 (OH)	MWD+IFR1+SAG+FDIR (Su	OWSG MWD + IFR1 + SAG + FDIR Correction

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	514,465.85	1,632,085.72	39° 54' 22.670 N	80° 41' 57.247 W
104.0	0.51	41.65	104.0	0.3	0.3	514,466.20	1,632,086.02	39° 54' 22.674 N	80° 41' 57.244 W
129.0	0.45	43.05	129.0	0.5	0.4	514,466.35	1,632,086.16	39° 54' 22.675 N	80° 41' 57.242 W
154.0	0.45	33.79	154.0	0.7	0.6	514,466.51	1,632,086.29	39° 54' 22.677 N	80° 41' 57.240 W
179.0	0.31	19.98	179.0	0.8	0.6	514,466.65	1,632,086.36	39° 54' 22.678 N	80° 41' 57.239 W
204.0	0.34	354.21	204.0	0.9	0.7	514,466.79	1,632,086.38	39° 54' 22.680 N	80° 41' 57.239 W
229.0	0.38	2.25	229.0	1.1	0.7	514,466.95	1,632,086.38	39° 54' 22.681 N	80° 41' 57.239 W
254.0	0.37	8.03	254.0	1.3	0.7	514,467.11	1,632,086.39	39° 54' 22.683 N	80° 41' 57.239 W
279.0	0.21	33.14	279.0	1.4	0.7	514,467.23	1,632,086.43	39° 54' 22.684 N	80° 41' 57.239 W
304.0	0.30	64.65	304.0	1.4	0.8	514,467.29	1,632,086.51	39° 54' 22.685 N	80° 41' 57.237 W

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 Site: Hines A
 Well: Hines A 12H L-016547
 Wellbore: OH
 Design: Hines M12H As Drilled

Local Co-ordinate Reference: Well Hines A 12H L-016547
 TVD Reference: KB@28 @ 1152.0usft
 MD Reference: KB@28 @ 1152.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EQT

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
329.0	0.40	71.69	329.0	1.5	0.9	514,467.35	1,632,086.65	39° 54' 22.685 N	80° 41' 57.236 W
354.0	0.30	88.28	354.0	1.5	1.1	514,467.38	1,632,086.80	39° 54' 22.686 N	80° 41' 57.234 W
379.0	0.31	71.29	379.0	1.5	1.2	514,467.40	1,632,086.93	39° 54' 22.686 N	80° 41' 57.232 W
404.0	0.24	28.03	404.0	1.6	1.3	514,467.47	1,632,087.02	39° 54' 22.686 N	80° 41' 57.231 W
419.0	0.49	45.31	419.0	1.7	1.4	514,467.54	1,632,087.08	39° 54' 22.687 N	80° 41' 57.230 W
Final Gyro Survey=416' MD/ TVD									
518.0	0.64	42.22	518.0	2.4	2.0	514,468.25	1,632,087.75	39° 54' 22.694 N	80° 41' 57.222 W
KOP 1=518.0 MD_518.0 TVD									
549.0	0.53	52.78	549.0	2.6	2.3	514,468.46	1,632,087.98	39° 54' 22.696 N	80° 41' 57.219 W
611.0	0.54	47.24	611.0	3.0	2.7	514,468.84	1,632,088.43	39° 54' 22.700 N	80° 41' 57.213 W
642.0	0.48	46.39	642.0	3.2	2.9	514,469.03	1,632,088.63	39° 54' 22.702 N	80° 41' 57.211 W
674.0	0.47	30.51	674.0	3.4	3.1	514,469.23	1,632,088.79	39° 54' 22.704 N	80° 41' 57.209 W
705.0	0.50	39.79	705.0	3.6	3.2	514,469.44	1,632,088.94	39° 54' 22.706 N	80° 41' 57.207 W
736.0	0.38	41.32	736.0	3.8	3.4	514,469.63	1,632,089.10	39° 54' 22.708 N	80° 41' 57.205 W
767.0	0.33	23.04	767.0	3.9	3.5	514,469.78	1,632,089.20	39° 54' 22.710 N	80° 41' 57.203 W
861.0	0.58	225.13	861.0	3.8	3.3	514,469.70	1,632,088.97	39° 54' 22.709 N	80° 41' 57.206 W
954.0	1.36	234.85	954.0	2.9	2.0	514,468.73	1,632,087.73	39° 54' 22.699 N	80° 41' 57.222 W
1,048.0	2.37	233.37	1,047.9	1.1	-0.5	514,466.93	1,632,085.26	39° 54' 22.681 N	80° 41' 57.253 W
1,142.0	4.02	239.48	1,141.8	-1.8	-4.9	514,464.10	1,632,080.86	39° 54' 22.652 N	80° 41' 57.309 W
1,235.0	4.72	255.15	1,234.5	-4.4	-11.4	514,461.46	1,632,074.35	39° 54' 22.625 N	80° 41' 57.392 W
1,329.0	5.72	247.62	1,328.1	-7.2	-19.4	514,458.69	1,632,066.28	39° 54' 22.597 N	80° 41' 57.496 W
1,423.0	5.77	247.56	1,421.6	-10.8	-28.1	514,455.10	1,632,057.58	39° 54' 22.560 N	80° 41' 57.607 W
1,516.0	5.71	251.56	1,514.2	-14.0	-36.8	514,451.85	1,632,048.87	39° 54' 22.527 N	80° 41' 57.718 W
1,610.0	6.00	252.53	1,607.7	-17.0	-46.0	514,448.90	1,632,039.75	39° 54' 22.497 N	80° 41' 57.834 W
1,703.0	6.16	248.12	1,700.2	-20.3	-55.2	514,445.58	1,632,030.48	39° 54' 22.463 N	80° 41' 57.953 W
1,797.0	6.40	253.67	1,793.6	-23.6	-64.9	514,442.23	1,632,020.78	39° 54' 22.428 N	80° 41' 58.077 W
1,890.0	6.48	255.42	1,886.0	-26.4	-75.0	514,439.45	1,632,010.72	39° 54' 22.400 N	80° 41' 58.205 W
1,984.0	6.56	253.43	1,979.4	-29.3	-85.3	514,436.59	1,632,000.44	39° 54' 22.370 N	80° 41' 58.337 W
2,046.0	6.73	257.36	2,041.0	-31.1	-92.2	514,434.78	1,631,993.50	39° 54' 22.351 N	80° 41' 58.425 W
2,083.0	7.88	256.43	2,077.7	-32.1	-96.8	514,433.71	1,631,988.92	39° 54' 22.340 N	80° 41' 58.484 W
2,179.0	6.70	255.08	2,172.9	-35.1	-108.6	514,430.73	1,631,977.11	39° 54' 22.309 N	80° 41' 58.635 W
2,272.0	8.90	258.67	2,265.0	-37.9	-120.9	514,427.92	1,631,964.82	39° 54' 22.279 N	80° 41' 58.792 W
2,366.0	11.86	263.48	2,357.5	-40.5	-137.6	514,425.39	1,631,948.08	39° 54' 22.252 N	80° 41' 59.007 W
2,459.0	14.79	262.18	2,448.0	-43.2	-158.9	514,422.69	1,631,926.82	39° 54' 22.223 N	80° 41' 59.279 W
2,553.0	18.93	262.43	2,537.9	-46.8	-185.9	514,419.05	1,631,899.81	39° 54' 22.183 N	80° 41' 59.625 W
2,646.0	21.95	260.82	2,625.0	-51.6	-218.0	514,414.30	1,631,867.69	39° 54' 22.132 N	80° 42' 0.036 W
2,740.0	24.72	260.52	2,711.4	-57.6	-254.8	514,408.26	1,631,830.95	39° 54' 22.068 N	80° 42' 0.507 W
2,834.0	26.48	260.16	2,796.1	-64.4	-294.8	514,401.44	1,631,790.92	39° 54' 21.995 N	80° 42' 1.019 W
2,927.0	28.62	262.90	2,878.6	-70.7	-337.3	514,395.15	1,631,748.38	39° 54' 21.927 N	80° 42' 1.564 W
3,021.0	29.54	262.56	2,960.7	-76.5	-382.7	514,389.37	1,631,703.06	39° 54' 21.864 N	80° 42' 2.144 W
3,115.0	29.59	261.33	3,042.5	-83.0	-428.6	514,382.87	1,631,657.14	39° 54' 21.794 N	80° 42' 2.733 W
3,209.0	29.44	262.27	3,124.3	-89.6	-474.4	514,376.27	1,631,611.30	39° 54' 21.722 N	80° 42' 3.320 W
3,304.0	28.65	263.99	3,207.3	-95.1	-520.2	514,370.75	1,631,565.52	39° 54' 21.662 N	80° 42' 3.906 W
3,398.0	28.28	265.48	3,290.0	-99.2	-564.8	514,366.64	1,631,520.91	39° 54' 21.615 N	80° 42' 4.478 W
3,491.0	28.76	264.96	3,371.7	-102.9	-609.1	514,362.94	1,631,476.66	39° 54' 21.573 N	80° 42' 5.045 W
3,585.0	28.58	263.37	3,454.2	-107.5	-653.9	514,358.36	1,631,431.80	39° 54' 21.522 N	80° 42' 5.620 W
3,678.0	28.19	264.18	3,536.0	-112.3	-697.9	514,353.57	1,631,387.85	39° 54' 21.469 N	80° 42' 6.183 W
3,772.0	28.77	265.10	3,618.6	-116.5	-742.5	514,349.39	1,631,343.22	39° 54' 21.421 N	80° 42' 6.755 W
3,866.0	28.26	263.09	3,701.2	-121.1	-787.1	514,344.79	1,631,298.59	39° 54' 21.370 N	80° 42' 7.327 W
3,959.0	28.68	264.30	3,783.0	-125.9	-831.2	514,339.92	1,631,254.52	39° 54' 21.316 N	80° 42' 7.891 W
4,053.0	28.34	265.60	3,865.6	-129.9	-875.9	514,335.98	1,631,209.83	39° 54' 21.271 N	80° 42' 8.464 W
4,147.0	28.50	265.14	3,948.2	-133.5	-920.5	514,332.37	1,631,165.24	39° 54' 21.230 N	80° 42' 9.036 W
4,243.0	28.91	263.73	4,032.4	-138.0	-966.4	514,327.90	1,631,119.35	39° 54' 21.179 N	80° 42' 9.624 W
4,336.0	28.74	265.96	4,113.9	-142.0	-1,011.0	514,323.87	1,631,074.70	39° 54' 21.134 N	80° 42' 10.196 W
4,430.0	28.23	264.89	4,196.5	-145.6	-1,055.7	514,320.30	1,631,030.02	39° 54' 21.092 N	80° 42' 10.769 W

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Site: Hines A
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Survey Calculation Method: Minimum Curvature
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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,523.0	28.11	265.96	4,278.5	+149.1	-1,099.5	514,316.80	1,630,986.25	39° 54' 21.052 N	80° 42' 11.330 W
4,817.0	29.13	267.38	4,381.0	+151.7	-1,144.4	514,314.20	1,630,941.31	39° 54' 21.020 N	80° 42' 11.908 W
4,710.0	28.99	265.40	4,442.3	+154.5	-1,189.5	514,311.36	1,630,896.23	39° 54' 20.986 N	80° 42' 12.484 W
4,804.0	28.55	263.21	4,524.7	+159.0	-1,234.5	514,306.88	1,630,851.22	39° 54' 20.936 N	80° 42' 13.061 W
4,898.0	28.70	264.05	4,607.2	+164.0	-1,279.3	514,301.89	1,630,806.40	39° 54' 20.881 N	80° 42' 13.634 W
4,991.0	29.08	265.67	4,688.7	+168.0	-1,324.0	514,297.87	1,630,761.71	39° 54' 20.835 N	80° 42' 14.208 W
5,085.0	28.53	264.23	4,771.0	+172.0	-1,369.1	514,293.90	1,630,716.60	39° 54' 20.790 N	80° 42' 14.789 W
5,178.0	28.35	262.52	4,852.8	+177.1	-1,413.1	514,288.79	1,630,672.61	39° 54' 20.734 N	80° 42' 15.349 W
5,272.0	28.34	264.68	4,935.5	+182.0	-1,457.5	514,283.82	1,630,628.27	39° 54' 20.679 N	80° 42' 15.917 W
5,369.0	28.21	263.43	5,021.0	+186.8	-1,503.2	514,279.07	1,630,582.57	39° 54' 20.626 N	80° 42' 16.503 W
5,462.0	28.67	265.26	5,102.7	+191.1	-1,547.2	514,274.71	1,630,538.49	39° 54' 20.577 N	80° 42' 17.088 W
5,558.0	27.95	263.95	5,185.5	+195.3	-1,591.6	514,270.53	1,630,494.12	39° 54' 20.530 N	80° 42' 17.637 W
5,650.0	28.73	264.15	5,268.2	+199.0	-1,635.0	514,265.91	1,630,449.73	39° 54' 20.478 N	80° 42' 18.205 W
5,743.0	28.23	263.27	5,350.0	+204.8	-1,680.1	514,261.06	1,630,405.65	39° 54' 20.424 N	80° 42' 18.770 W
5,832.0	28.56	263.77	5,428.3	+209.0	-1,722.1	514,256.29	1,630,363.00	39° 54' 20.372 N	80° 42' 19.309 W
5,893.0	28.04	263.38	5,482.0	+212.8	-1,750.9	514,253.05	1,630,334.86	39° 54' 20.336 N	80° 42' 19.677 W
5,987.0	30.12	252.67	5,564.2	+222.4	-1,795.4	514,243.48	1,630,290.36	39° 54' 20.235 N	80° 42' 20.246 W
Curve KOP= 5987.0 MD_5564.2 TVD									
6,081.0	32.89	243.35	5,644.4	+240.9	-1,840.7	514,224.99	1,630,245.00	39° 54' 20.047 N	80° 42' 20.825 W
6,176.0	35.76	235.78	5,722.9	+268.1	-1,886.8	514,197.80	1,630,198.96	39° 54' 19.772 N	80° 42' 21.411 W
6,269.0	40.11	228.08	5,796.2	+303.4	-1,931.6	514,162.47	1,630,154.15	39° 54' 19.417 N	80° 42' 21.980 W
6,364.0	42.96	225.48	5,867.3	+346.5	-1,977.4	514,119.32	1,630,108.28	39° 54' 18.984 N	80° 42' 22.561 W
6,459.0	46.97	220.38	5,934.6	+395.7	-2,023.0	514,070.14	1,630,062.67	39° 54' 18.492 N	80° 42' 23.138 W
6,553.0	52.04	215.24	5,995.6	+452.2	-2,066.7	514,013.65	1,630,018.98	39° 54' 17.928 N	80° 42' 23.689 W
6,648.0	55.99	212.12	6,051.4	+516.2	-2,109.3	513,949.68	1,629,975.40	39° 54' 17.290 N	80° 42' 24.224 W
6,743.0	61.03	207.59	6,111.1	+586.4	-2,149.5	513,879.43	1,629,936.17	39° 54' 16.591 N	80° 42' 24.728 W
6,838.0	66.13	205.17	6,143.3	+662.6	-2,187.3	513,803.23	1,629,898.42	39° 54' 15.833 N	80° 42' 25.200 W
6,933.0	70.22	199.14	6,178.7	+744.3	-2,220.5	513,721.60	1,629,865.24	39° 54' 15.022 N	80° 42' 25.611 W
7,028.0	72.58	193.15	6,209.0	+830.7	-2,245.5	513,635.15	1,629,840.24	39° 54' 14.164 N	80° 42' 25.917 W
7,122.0	74.17	186.67	6,235.9	+919.4	-2,261.0	513,546.48	1,629,824.77	39° 54' 13.286 N	80° 42' 26.100 W
7,217.0	77.22	181.10	6,259.4	+1,011.2	-2,267.2	513,454.69	1,629,818.55	39° 54' 12.378 N	80° 42' 26.164 W
7,311.0	80.68	170.88	6,277.5	+1,103.0	-2,260.7	513,362.81	1,629,825.04	39° 54' 11.471 N	80° 42' 26.065 W
7,407.0	85.55	162.88	6,288.0	+1,195.8	-2,239.0	513,270.10	1,629,846.67	39° 54' 10.557 N	80° 42' 25.772 W
7,460.2	87.07	160.74	6,292.4	+1,246.2	-2,222.5	513,219.68	1,629,863.24	39° 54' 10.061 N	80° 42' 25.550 W
Marcellus = 7460.2 MD_6292.4 TVD									
7,502.0	88.27	159.05	6,294.1	+1,285.4	-2,208.1	513,160.45	1,629,877.60	39° 54' 9.576 N	80° 42' 25.359 W
LP = 7502.0 MD_6294.1 TVD									
7,597.0	89.01	153.08	6,296.4	+1,372.2	-2,169.6	513,093.68	1,629,916.10	39° 54' 8.823 N	80° 42' 24.850 W
7,691.0	90.32	152.37	6,296.9	+1,455.7	-2,126.5	513,010.13	1,629,956.17	39° 54' 8.003 N	80° 42' 24.263 W
7,786.0	89.08	151.70	6,297.4	+1,539.6	-2,082.0	512,926.22	1,630,003.71	39° 54' 7.180 N	80° 42' 23.697 W
7,881.0	88.91	152.58	6,299.1	+1,623.6	-2,037.6	512,842.24	1,630,048.09	39° 54' 6.356 N	80° 42' 23.114 W
7,975.0	88.12	154.52	6,300.7	+1,707.8	-1,993.8	512,758.10	1,630,089.95	39° 54' 5.530 N	80° 42' 22.562 W
8,070.0	88.85	153.72	6,302.4	+1,793.2	-1,954.3	512,672.63	1,630,131.40	39° 54' 4.691 N	80° 42' 22.015 W
8,165.0	89.02	153.87	6,304.1	+1,878.4	-1,912.4	512,587.41	1,630,173.33	39° 54' 3.854 N	80° 42' 21.463 W
8,259.0	89.12	153.72	6,305.7	+1,962.8	-1,870.9	512,503.08	1,630,214.83	39° 54' 3.026 N	80° 42' 20.918 W
8,353.0	88.95	154.54	6,307.2	+2,047.3	-1,829.9	512,418.51	1,630,255.83	39° 54' 2.196 N	80° 42' 20.375 W
8,448.0	88.88	153.34	6,309.0	+2,132.7	-1,788.2	512,333.18	1,630,297.55	39° 54' 1.359 N	80° 42' 19.825 W
8,542.0	89.79	152.87	6,310.1	+2,216.5	-1,745.7	512,249.35	1,630,340.06	39° 54' 0.536 N	80° 42' 19.265 W
8,637.0	89.99	153.55	6,310.3	+2,301.3	-1,702.8	512,164.54	1,630,382.87	39° 53' 59.703 N	80° 42' 18.701 W
8,731.0	90.05	152.18	6,310.3	+2,385.0	-1,660.0	512,080.89	1,630,425.74	39° 53' 58.882 N	80° 42' 18.137 W
8,826.0	89.85	152.68	6,310.3	+2,469.2	-1,616.0	511,996.67	1,630,469.70	39° 53' 58.056 N	80° 42' 17.559 W
8,920.0	89.85	153.22	6,310.6	+2,552.9	-1,573.3	511,912.95	1,630,512.44	39° 53' 57.234 N	80° 42' 16.996 W
9,014.0	89.85	152.17	6,310.8	+2,636.4	-1,530.2	511,829.42	1,630,555.55	39° 53' 56.415 N	80° 42' 16.428 W
9,109.0	89.42	152.01	6,311.4	+2,720.4	-1,485.7	511,745.47	1,630,600.01	39° 53' 55.591 N	80° 42' 15.843 W
9,203.0	88.78	152.95	6,312.9	+2,803.7	-1,442.3	511,662.12	1,630,643.43	39° 53' 54.773 N	80° 42' 15.272 W

Survey Report - Geographic

Company: EQT (Chevron Data) 02-13-21
Project: Marshall County, WV Chevron
Site: Hines A
Well: Hines A 12H L-016547
Wellbore: OH
Design: Hines M12H As Drilled

Local Co-ordinate Reference: Well Hines A 12H L-016547
TVD Reference: KB@28 @ 1152.0usft
MD Reference: KB@28 @ 1152.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EQT

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,298.0	88.88	153.06	6,314.9	-2,888.4	-1,399.2	511,577.48	1,630,686.54	39° 53' 53.942 N	80° 42' 14.704 W
9,392.0	89.15	152.56	6,316.5	-2,972.0	-1,356.2	511,493.88	1,630,729.48	39° 53' 53.122 N	80° 42' 14.139 W
9,487.0	88.81	152.96	6,318.2	-3,056.4	-1,312.8	511,409.42	1,630,772.95	39° 53' 52.293 N	80° 42' 13.567 W
9,581.0	88.81	153.24	6,320.1	-3,140.2	-1,270.3	511,325.61	1,630,815.46	39° 53' 51.470 N	80° 42' 13.007 W
9,675.0	88.78	152.72	6,322.1	-3,224.0	-1,227.6	511,241.88	1,630,858.15	39° 53' 50.648 N	80° 42' 12.445 W
9,770.0	89.15	152.43	6,323.8	-3,308.3	-1,183.8	511,157.57	1,630,901.89	39° 53' 49.821 N	80° 42' 11.869 W
9,865.0	89.28	152.49	6,325.1	-3,392.5	-1,139.9	511,073.34	1,630,945.80	39° 53' 48.995 N	80° 42' 11.291 W
9,959.0	89.52	153.25	6,326.1	-3,476.2	-1,097.1	510,989.68	1,630,988.66	39° 53' 48.173 N	80° 42' 10.727 W
10,053.0	89.52	152.43	6,326.9	-3,559.8	-1,054.2	510,906.05	1,631,031.56	39° 53' 47.353 N	80° 42' 10.162 W
10,148.0	89.72	152.41	6,327.5	-3,644.0	-1,010.2	510,821.84	1,631,075.53	39° 53' 46.526 N	80° 42' 9.584 W
10,243.0	90.15	152.38	6,327.6	-3,728.2	-966.2	510,737.65	1,631,119.55	39° 53' 45.700 N	80° 42' 9.005 W
10,337.0	90.22	153.02	6,327.3	-3,811.7	-923.1	510,654.12	1,631,162.65	39° 53' 44.880 N	80° 42' 8.437 W
10,432.0	89.52	152.89	6,327.5	-3,896.3	-879.9	510,569.51	1,631,205.84	39° 53' 44.050 N	80° 42' 7.869 W
10,527.0	89.55	152.58	6,328.3	-3,980.8	-836.4	510,485.06	1,631,249.35	39° 53' 43.221 N	80° 42' 7.296 W
10,621.0	89.65	152.58	6,329.0	-4,064.2	-793.1	510,401.62	1,631,292.63	39° 53' 42.402 N	80° 42' 6.726 W
10,715.0	89.68	152.34	6,329.5	-4,147.6	-749.6	510,318.27	1,631,336.09	39° 53' 41.584 N	80° 42' 6.154 W
10,810.0	89.58	152.62	6,330.1	-4,231.8	-705.7	510,234.02	1,631,379.97	39° 53' 40.758 N	80° 42' 5.577 W
10,904.0	89.28	152.39	6,331.1	-4,315.2	-662.4	510,150.63	1,631,423.36	39° 53' 39.938 N	80° 42' 5.006 W
10,999.0	89.25	152.72	6,332.3	-4,399.5	-618.6	510,066.33	1,631,467.14	39° 53' 39.112 N	80° 42' 4.430 W
11,093.0	89.21	152.51	6,333.5	-4,483.0	-575.4	509,982.87	1,631,510.36	39° 53' 38.293 N	80° 42' 3.861 W
11,187.0	89.18	152.91	6,334.9	-4,566.5	-532.3	509,899.33	1,631,553.45	39° 53' 37.473 N	80° 42' 3.294 W
11,282.0	88.94	153.18	6,336.4	-4,651.2	-489.2	509,814.66	1,631,596.50	39° 53' 36.642 N	80° 42' 2.727 W
11,377.0	89.11	152.90	6,338.0	-4,735.9	-446.2	509,730.00	1,631,639.55	39° 53' 35.811 N	80° 42' 2.160 W
11,471.0	89.15	152.32	6,339.5	-4,819.3	-402.9	509,646.54	1,631,682.79	39° 53' 34.992 N	80° 42' 1.591 W
11,565.0	89.18	152.39	6,340.8	-4,902.6	-359.3	509,563.28	1,631,726.39	39° 53' 34.175 N	80° 42' 1.018 W
11,660.0	89.01	152.12	6,342.3	-4,986.6	-315.1	509,479.20	1,631,770.60	39° 53' 33.350 N	80° 42' 0.436 W
11,754.0	88.98	153.19	6,344.0	-5,070.1	-271.9	509,395.72	1,631,813.77	39° 53' 32.531 N	80° 41' 59.868 W
11,848.0	88.94	152.71	6,345.7	-5,153.8	-229.2	509,312.01	1,631,856.50	39° 53' 31.709 N	80° 41' 59.305 W
11,943.0	89.28	152.94	6,347.2	-5,238.3	-185.8	509,227.51	1,631,899.88	39° 53' 30.880 N	80° 41' 58.734 W
12,037.0	89.11	152.93	6,348.5	-5,322.0	-143.1	509,143.80	1,631,942.64	39° 53' 30.058 N	80° 41' 58.171 W
12,132.0	89.71	152.73	6,349.5	-5,406.6	-99.7	509,059.29	1,631,986.01	39° 53' 29.229 N	80° 41' 57.601 W
12,227.0	89.65	152.67	6,350.0	-5,491.0	-56.1	508,974.87	1,632,029.57	39° 53' 28.400 N	80° 41' 57.027 W
12,321.0	89.61	152.56	6,350.6	-5,574.5	-12.9	508,891.40	1,632,072.80	39° 53' 27.581 N	80° 41' 56.458 W
12,416.0	89.88	152.55	6,351.0	-5,658.8	30.9	508,807.09	1,632,116.58	39° 53' 26.754 N	80° 41' 55.882 W
12,511.0	89.75	152.26	6,351.3	-5,743.0	74.9	508,722.89	1,632,160.57	39° 53' 25.928 N	80° 41' 55.304 W
12,605.0	89.81	153.04	6,351.7	-5,826.5	118.0	508,639.40	1,632,203.75	39° 53' 25.108 N	80° 41' 54.735 W
12,699.0	89.81	152.90	6,352.0	-5,910.2	160.7	508,555.66	1,632,246.46	39° 53' 24.286 N	80° 41' 54.173 W
12,794.0	89.51	153.06	6,352.6	-5,994.8	203.9	508,471.03	1,632,289.62	39° 53' 23.456 N	80° 41' 53.605 W
12,888.0	89.44	152.94	6,353.4	-6,078.6	246.6	508,387.27	1,632,332.28	39° 53' 22.634 N	80° 41' 53.043 W
12,983.0	89.38	153.11	6,354.4	-6,163.2	289.6	508,302.61	1,632,375.36	39° 53' 21.803 N	80° 41' 52.476 W
13,077.0	89.44	153.06	6,355.4	-6,247.1	332.2	508,218.79	1,632,417.91	39° 53' 20.980 N	80° 41' 51.916 W
13,172.0	89.55	152.94	6,356.2	-6,331.7	375.3	508,134.15	1,632,461.03	39° 53' 20.149 N	80° 41' 51.348 W
13,266.0	89.31	152.80	6,357.2	-6,415.4	418.2	508,050.49	1,632,503.88	39° 53' 19.328 N	80° 41' 50.784 W
13,361.0	89.18	153.52	6,358.4	-6,500.1	461.0	507,965.73	1,632,546.76	39° 53' 18.498 N	80° 41' 50.220 W
13,456.0	89.21	152.43	6,359.7	-6,584.7	504.2	507,881.11	1,632,589.92	39° 53' 17.666 N	80° 41' 49.652 W
13,550.0	89.21	153.20	6,361.0	-6,668.4	547.1	507,797.50	1,632,632.85	39° 53' 16.845 N	80° 41' 49.087 W
13,644.0	89.28	152.22	6,362.3	-6,751.9	590.2	507,713.96	1,632,675.94	39° 53' 16.025 N	80° 41' 48.520 W
13,739.0	89.24	152.96	6,363.5	-6,836.2	633.9	507,629.63	1,632,719.66	39° 53' 15.198 N	80° 41' 47.944 W
13,765.0	89.34	152.91	6,363.8	-6,859.4	645.8	507,606.48	1,632,731.49	39° 53' 14.970 N	80° 41' 47.789 W
13,787.0	89.34	152.91	6,364.1	-6,879.0	655.8	507,586.90	1,632,741.50	39° 53' 14.778 N	80° 41' 47.657 W

Projection To TD = 13787.0 MD_6364.1 TVD - Deepest Point Of Well 13787.0 MD_6364.1 TVD

Survey Report - Geographic

Company:	EQT (Chevron Data) 02-13-21	Local Co-ordinate Reference:	Well Hines A 12H L-016547
Project:	Marshall County, WV Chevron	TVD Reference:	KB@28 @ 1152.0usft
Site:	Hines A	MD Reference:	KB@28 @ 1152.0usft
Well:	Hines A 12H L-016547	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Hines M12H As Drilled	Database:	EQT

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
(1) Hines M12H Surface - actual wellpath hits target center - Point	0.00	0.76	0.0	0.0	0.0	514,465.85	1,632,085.72	39° 54' 22.670 N	80° 41' 57.247 W
(2) Hines M12H Landing - actual wellpath hits target center - Point	0.00	0.77	6,294.1	-1,285.4	-2,208.1	513,180.45	1,629,877.60	39° 54' 9.676 N	80° 42' 25.359 W
(3) Hines M12H Bottom - actual wellpath hits target center - Point	0.00	0.76	6,364.1	-6,879.0	655.8	507,586.90	1,632,741.50	39° 53' 14.778 N	80° 41' 47.657 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
419.0	419.0	1.7	1.4	Final Gyro Survey=416' MD/ TVD
518.0	518.0	2.4	2.0	KOP 1=518.0 MD_518.0 TVD
5,987.0	5,564.2	-222.4	-1,795.4	Curve KOP= 5987.0 MD_5564.2 TVD
7,460.2	6,292.4	-1,246.2	-2,222.5	Marcellus = 7460.2 MD_ 6292.4 TVD
7,502.0	6,294.1	-1,285.4	-2,208.1	LP = 7502.0 MD_6294.1 TVD
13,787.0	6,364.1	-6,879.0	655.8	Projection To TD = 13787.0 MD_6364.1 TVD
13,787.0	6,364.1	-6,879.0	655.8	Deepest Point Of Well 13787.0 MD_6364.1 TVD

Checked By: _____ Approved By: _____ Date: _____

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WV Department of
Environmental Protection

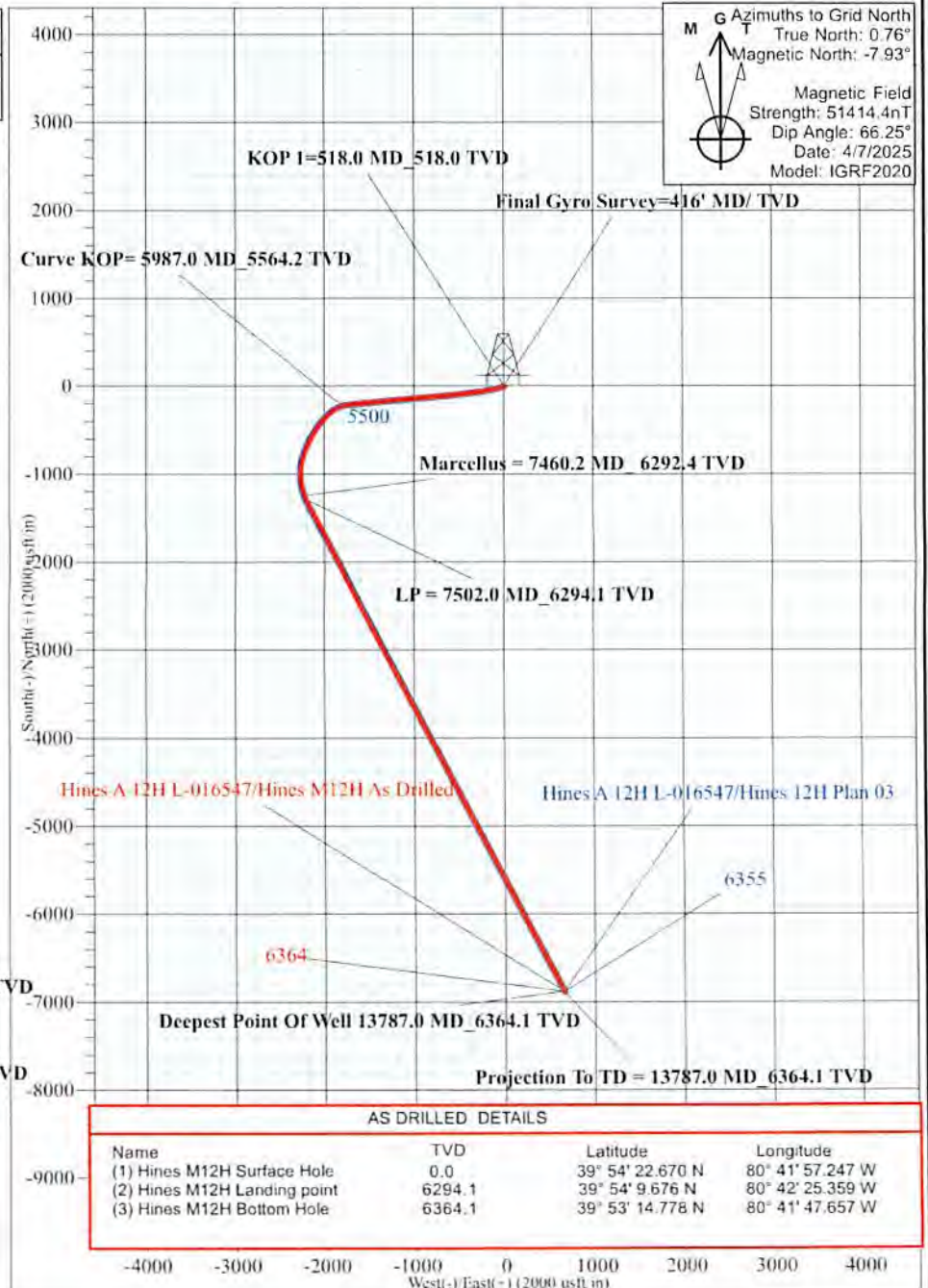
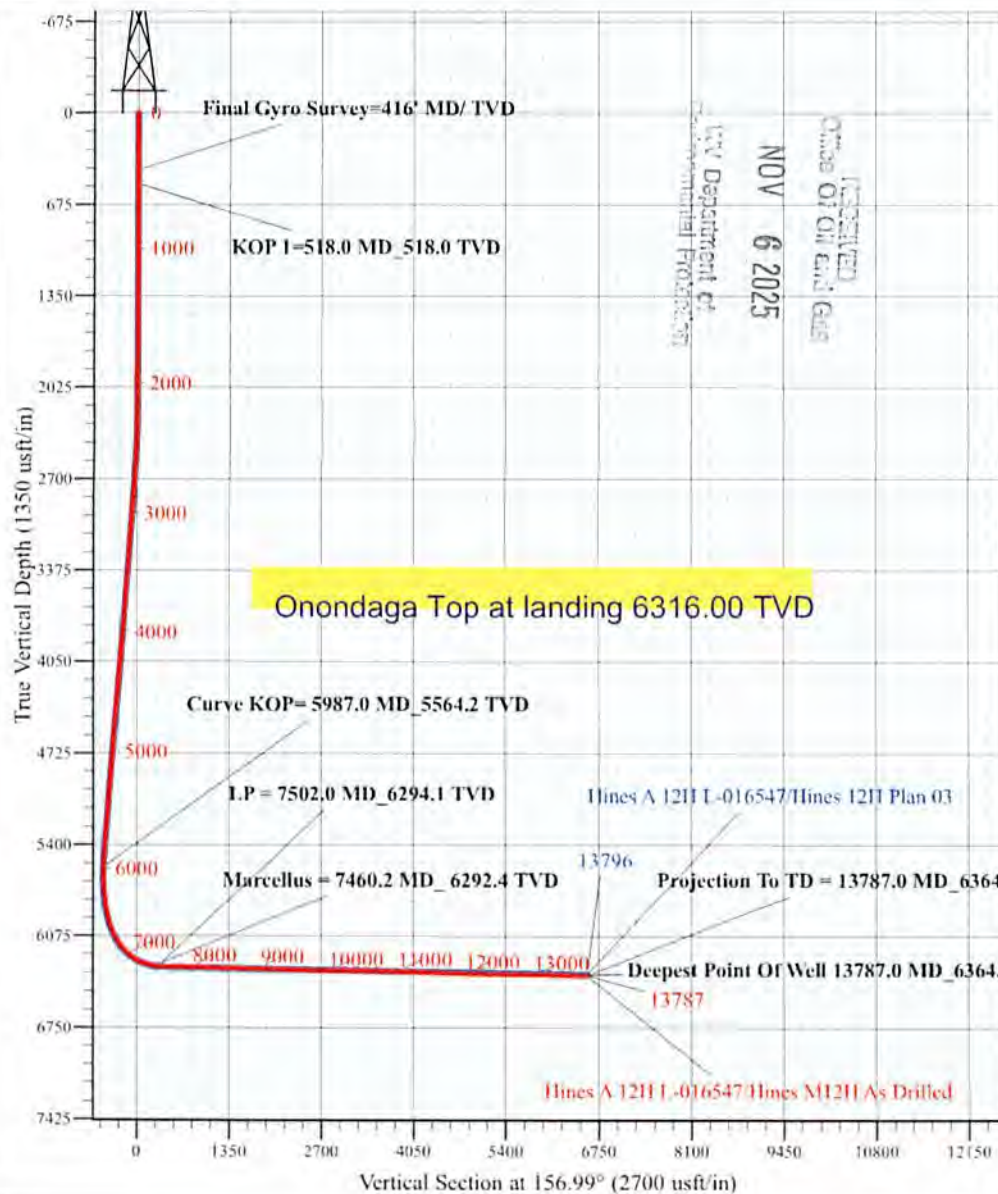
Hines A
Hines M12H As Drilled
KB@28 @ 1152.0usft
Marshall County, WV Chevron
OH

PROJECT DETAILS:
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: West Virginia Northern Zone
System Datum: Mean Sea Level



WELL DETAILS Hines A 12H L-016547

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	514465.85	1632085.72	39° 54' 22.670 N	80° 41' 57.247 W



AS DRILLED DETAILS			
Name	TVD	Latitude	Longitude
(1) Hines M12H Surface Hole	0.0	39° 54' 22.670 N	80° 41' 57.247 W
(2) Hines M12H Landing point	6294.1	39° 54' 9.676 N	80° 42' 25.359 W
(3) Hines M12H Bottom Hole	6364.1	39° 53' 14.778 N	80° 41' 47.657 W