

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-061-02009 County Monongalia District Battelle
Quad Wadestown Pad Name Miracle Run Field/Pool Name _____
Farm name Claude S & Joni L Anderson Well Number 16H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia Street, E, Ste 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4386828.1 Easting 558455.8
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1458' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other N/A
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
SYNTHETIC BASED MUD FOR HORIZONTAL SECTION; BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-Seal Plus, HRP, Lime, M-I WATE (BARITE), M-I-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM, SOLTEX

Date permit issued 8/11/2025 Date drilling commenced 11/14/25 Date drilling ceased 3/16/26
Date completion activities began n/a Date completion activities ceased n/a
Verbal plugging (Y/N) Y Date permission granted 3/20/2026 Granted by Robert Hitt

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 125', 1,259' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2,695' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 715'-720', 880'-885', 1,248' - 1,259' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) _____ No - but is considered an active coal mine

Reviewed by: _____


APPROVED APP 14 2026

04/24/2026

API 47-061 - 02009 Farm name Claude S & Joni L Anderson Well number 16H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	32"	24"	100'	New	-	-	N - Grouted
Surface	17-1/2"	13-3/8"	1,472'	New	54.5	598	Y - 61 bbls
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details Depths in RKB (Elevation + 25ft). Unable to run intermediate casing section due to issues encountered with Red Rock swelling.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	408	15.6	1.18	481	CTS	> 72
Surface	Class A	1,305	15.6	1.20	1,566	CTS	8
Coal	-	-	-	-	-	-	-
Intermediate 1	-	-	-	-	-	-	-
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	-	-	-	-	-	-	-
Tubing	-	-	-	-	-	-	-

Drillers TD (ft) 3,730 ft Loggers TD (ft) 3,730 ft RECEIVED Office of Oil and Gas
 Deepest formation penetrated Upper Devonian Plug back to (ft) 0 ft
 Plug back procedure Cement from top of fish at -1,731ft to 0 ft to abandon the well. **MAR 30 2026**

WV Department of Environmental Protection

Kick off depth (ft) N/A

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
Surface: Shoe track and every 3rd joint to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS N/A

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

04/24/2026

Miracle Run 16H Completion Lithology

Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Sand/silt	0	425	Sand/silt
Sand/red shale	425	610	Sand/red shale
sandstone/siltstone/red silt	610	715	sandstone/siltstone/red silt
Washington coal	715	720	coal
siltstone/sandstone/limestone	720	880	carbonaceous silt/sandstone
Waynesburg coal	880	885	Waynesburg coal
sandstone/limestone	885	960	sandstone/limestone
Limestone/siltstone	960	1120	Limestone/siltstone
Limestone/siltstone/red beds	1120	1248	Limestone/siltstone/red beds
Pittsburgh coal	1248	1259	Pittsburgh coal
Limestone/siltstone	1259	1410	Limestone/siltstone
Red Rock/siltstone/limestone	1410	1790	Red Rock/siltstone/limestone
siltstone/sandstone	1790	2305	siltstone/sandstone
Red Rock/siltstone/limestone	2305	2439	Red Rock/siltstone/limestone
Little Lime	2439	2483	Little Lime
Big Lime	2483	2621	Big Lime
Big Injun	2621	2695	Big Injun
Sand/silt	2695	3124	Sand/silt
Gantz	3121	3135	Gantz
Sand/shale	3135	3404	Sand/shale
Gordon	3401	3487	Gordon
Fourth Sand	3487	3529	Fourth Sand
Upper Devonian Siltstone	3529	TD	Upper Devonian Siltstone

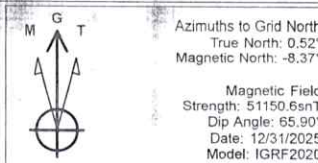
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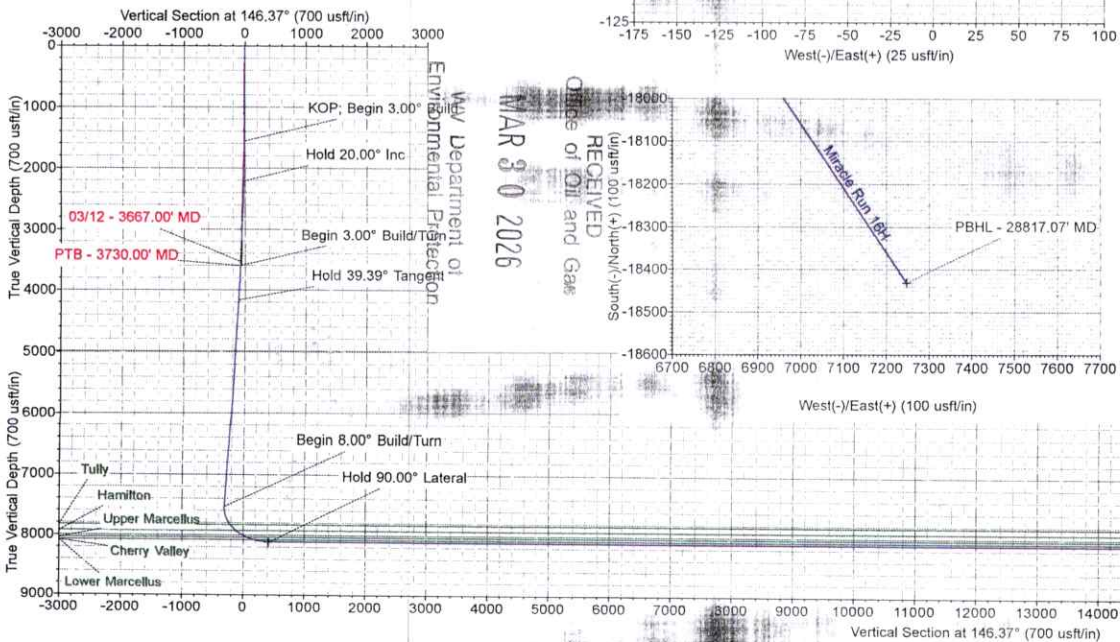
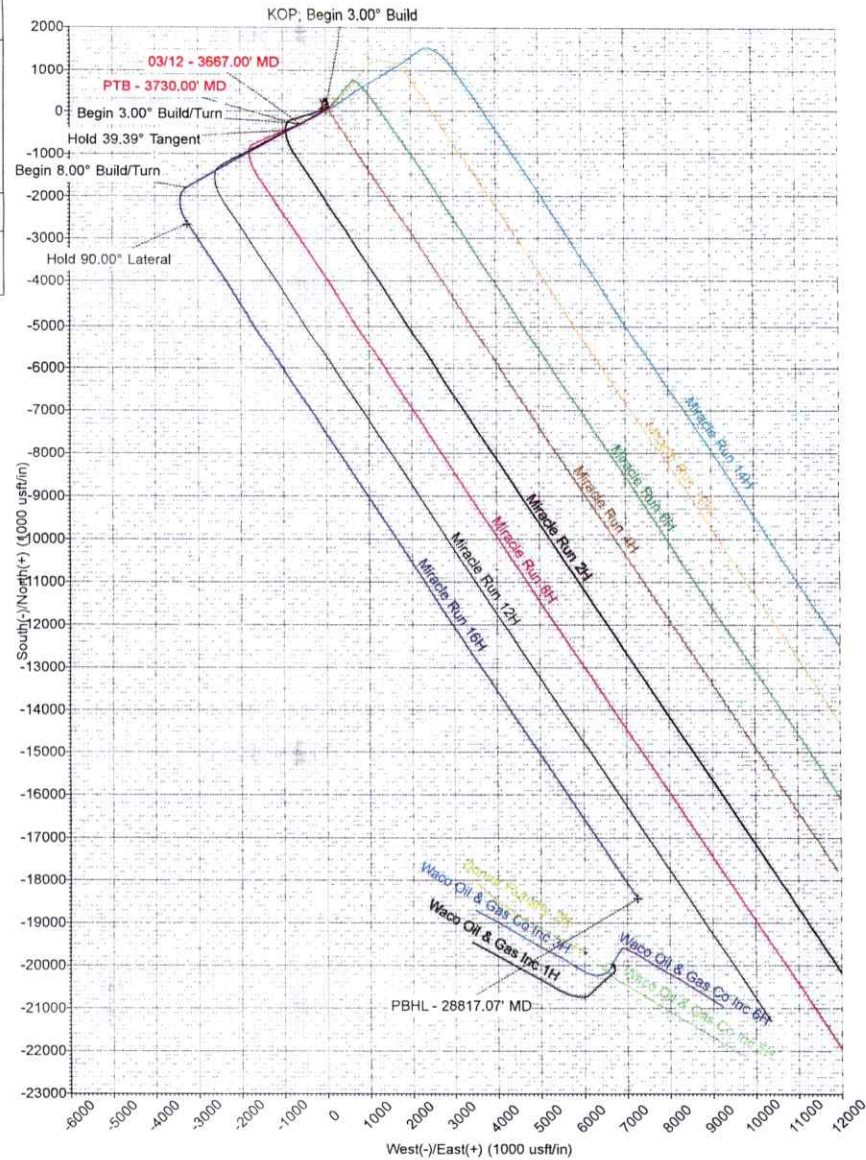
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1555.00	0.00	0.00	1555.00	-53.27	-102.32	3.00	242.45	0.00	KOP: Begin 3.00° Build
3	2221.67	20.00	242.45	2208.21	-287.57	-551.26	0.00	0.00	0.00	Hold 20.00° Inc
4	3702.78	20.00	242.45	3600.00	-287.57	-551.26	0.00	0.00	0.00	Begin 3.00° Build/Turn
5	4349.75	39.39	240.67	4159.34	-440.77	-830.89	3.00	-3.40	0.00	Hold 39.39° Tangent
6	8713.17	39.39	240.67	7531.53	-1797.18	-3245.10	0.00	0.00	0.00	Begin 8.00° Build/Turn
7	9872.23	90.00	146.37	8112.00	-2656.07	-3244.71	8.00	-93.32	414.52	Hold 90.00° Lateral
8	28817.07	90.00	146.37	8112.00	-18430.68	7246.64	0.00	0.00	19359.35	PBHL - 28817.07' MD

DESIGN TARGET DETAILS								
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
LP v1 - Miracle Run 16H	8112.00	-2656.07	-3244.71	409692.69	1734623.12	39° 37' 18.677 N	80° 19' 49.037 W	Point
PBHL v1 - Miracle Run 16H	8112.00	-18430.68	7246.64	393918.08	1745114.47	39° 34' 43.710 N	80° 17' 33.182 W	Point

Project: Monongalia County, WV (NAD83 - GRID)
 Site: Miracle Run Pad
 Well: Miracle Run 16H
 Wellbore: Wellbore #1
 Design: Design #2



Miracle Run 16H



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