



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

PERMIT MODIFICATION APPROVAL
Horizontal / Horizontal Well - 1

QUALITY NATURAL GAS, LLC
1555 KY ROUTE 80

PRESTONBURG, KY 41653

Re: Permit Modification Approval for 2403
47-059-02260-00-00

MOVE SURFACE HOLE ON EXISTING LOCATION

QUALITY NATURAL GAS, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 2403
Farm Name: Logan Coal & Timber, C. W. Campbell & JLCLCT, LLC
U.S. WELL NUMBER: 47-059-02260-00-00
Horizontal / Horizontal Well - 1
Date Issued: 11/21/2016

Promoting a healthy environment.

12/02/2016

47-059-02260H
MOD

Kinzer Drilling Company, LLC
Mingo County, WV (NAD-83)
Logan Coal & Timber
#2403

OH

Plan: Plan #2

Standard Planning Report

09 November, 2016

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WV Department of
Environmental Protection

12/02/2016

59 02260H

Kinzer Drilling Company, LLC

Project: Mingo County, WV (NAD-83)
 Site: Logan Coal & Timber
 Well: #2403
 Wellbore: OH
 Design: Plan #2



WELL DETAILS: #2403

Rig Name: RKB = 10' @ 1186.93usft						
Ground Level: 1176.93						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0 00	0 00	208784.00	1655701.00	37° 34' 6.122 N	82° 4' 45.260 W	

SECTION DETAILS

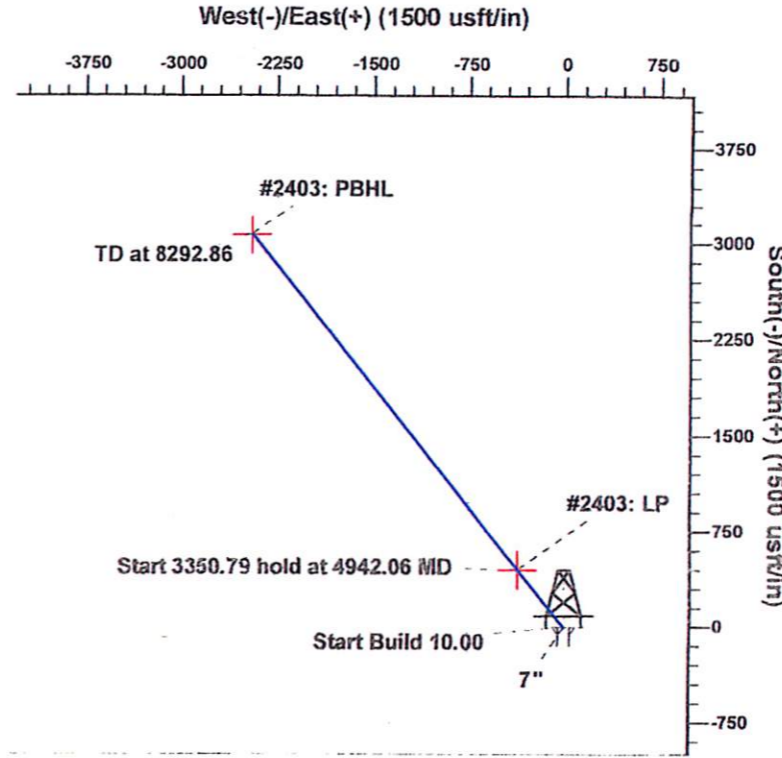
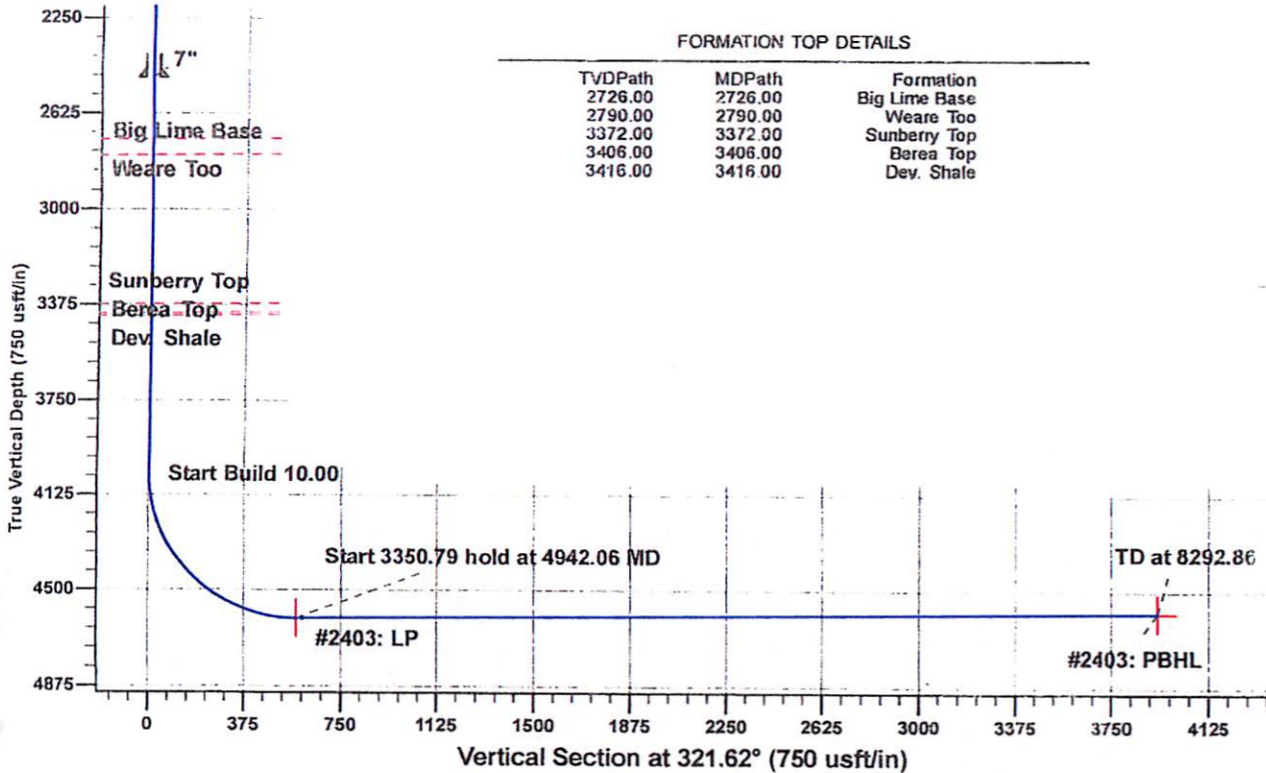
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4037.06	0.00	0.00	4037.06	0.00	0.00	0.00	0.00	0.00	
3	4942.06	90.50	321.62	4610.00	453.08	-358.82	10.00	321.62	577.96	
4	8292.86	90.50	321.62	4580.76	3079.81	-2439.03	0.00	0.00	3928.62	#2403: PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
#2403 PBHL	4580.76	3079.81	-2439.03	211892.00	1653298.00	37° 34' 36.570 N	82° 5' 15.557 W	Point
#2403 LP	4610.00	453.08	-358.82	209241.23	1655347.48	37° 34' 10.602 N	82° 4' 49.716 W	Point

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
2726.00	2726.00	Big Lime Base
2790.00	2790.00	Weare Too
3372.00	3372.00	Sunberry Top
3406.00	3406.00	Berea Top
3416.00	3416.00	Dev. Shale



PROJECT DETAILS: Mingo County, WV (NAD-83)

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



Azimuths to True North
 Magnetic North: -7.28°

Magnetic Field
 Strength: 51230.7snT
 Dip Angle: 65.42°
 Date: 11/9/2016
 Model: IGRF2015

Plan: Plan #2 (#2403/OH)

Created By: Matthew May Date: 17:58 November 09 2016

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WV Department of
Environmental Protection

Database:	Single User DB Primary	Local Co-ordinate Reference:	Well #2403
Company:	Kinzer Drilling Company, LLC	TVD Reference:	RKB = 10' @ 1186.93usft
Project:	Mingo County, WV (NAD-83)	MD Reference:	RKB = 10' @ 1186.93usft
Site:	Logan Coal & Timber	North Reference:	True
Well:	#2403	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Mingo County, WV (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	West Virginia Southern Zone		

Site	Logan Coal & Timber				
Site Position:		Northing:	208,784.00 usft	Latitude:	37° 34' 6.122 N
From:	Map	Easting:	1,655,701.00 usft	Longitude:	82° 4' 45.260 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.67 °

Well	#2403					
Well Position	+N/-S	0.00 usft	Northing:	208,784.00 usft	Latitude:	37° 34' 6.122 N
	+E/-W	0.00 usft	Easting:	1,655,701.00 usft	Longitude:	82° 4' 45.260 W
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	1,176.93 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/9/2016	-7.28	65.42	51,231

Design	Plan #2				
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	321.62

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,037.06	0.00	0.00	4,037.06	0.00	0.00	0.00	0.00	0.00	0.00	
4,942.06	90.50	321.62	4,610.00	453.08	-358.82	10.00	10.00	0.00	321.62	
8,292.86	90.50	321.62	4,580.76	3,079.81	-2,439.03	0.00	0.00	0.00	0.00	#2403: PBHL

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WV Department of
Environmental Protection

Database: Single User DB Primary
 Company: Kinzer Drilling Company, LLC
 Project: Mingo County, WV (NAD-83)
 Site: Logan Coal & Timber
 Well: #2403
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #2403
 TVD Reference: RKB = 10' @ 1186.93usft
 MD Reference: RKB = 10' @ 1186.93usft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,726.00	0.00	0.00	2,726.00	0.00	0.00	0.00	0.00	0.00	0.00
Big Lime Base									
2,790.00	0.00	0.00	2,790.00	0.00	0.00	0.00	0.00	0.00	0.00
Weare Top									
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,372.00	0.00	0.00	3,372.00	0.00	0.00	0.00	0.00	0.00	0.00
Sunberry Top									
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,406.00	0.00	0.00	3,406.00	0.00	0.00	0.00	0.00	0.00	0.00
Berea Top									
3,416.00	0.00	0.00	3,416.00	0.00	0.00	0.00	0.00	0.00	0.00
Dev. Shale									
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,037.06	0.00	0.00	4,037.06	0.00	0.00	0.00	0.00	0.00	0.00
4,050.00	1.29	321.62	4,050.00	0.11	-0.09	0.15	10.00	10.00	0.00
4,100.00	6.29	321.62	4,099.87	2.71	-2.14	3.45	10.00	10.00	0.00

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Planning Report

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 Site: Logan Coal & Timber
 Well: #2403
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #2403
 TVD Reference: RKB = 10' @ 1186.93usft
 MD Reference: RKB = 10' @ 1186.93usft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,150.00	11.29	321.62	4,149.27	8.70	-6.89	11.09	10.00	10.00	0.00
4,200.00	16.29	321.62	4,197.81	18.04	-14.29	23.01	10.00	10.00	0.00
4,250.00	21.29	321.62	4,245.13	30.66	-24.28	39.11	10.00	10.00	0.00
4,300.00	26.29	321.62	4,290.87	46.47	-36.80	59.28	10.00	10.00	0.00
4,350.00	31.29	321.62	4,334.67	65.35	-51.75	83.36	10.00	10.00	0.00
4,400.00	36.29	321.62	4,376.21	87.14	-69.01	111.16	10.00	10.00	0.00
4,450.00	41.29	321.62	4,415.17	111.69	-88.45	142.47	10.00	10.00	0.00
4,500.00	46.29	321.62	4,451.25	138.81	-109.93	177.06	10.00	10.00	0.00
4,550.00	51.29	321.62	4,484.18	168.29	-133.27	214.67	10.00	10.00	0.00
4,600.00	56.29	321.62	4,513.70	199.91	-158.31	255.00	10.00	10.00	0.00
4,650.00	61.29	321.62	4,539.60	233.42	-184.86	297.75	10.00	10.00	0.00
4,700.00	66.29	321.62	4,561.67	268.58	-212.70	342.60	10.00	10.00	0.00
4,750.00	71.29	321.62	4,579.76	305.11	-241.63	389.20	10.00	10.00	0.00
4,800.00	76.29	321.62	4,593.71	342.74	-271.43	437.20	10.00	10.00	0.00
4,850.00	81.29	321.62	4,603.42	381.17	-301.87	486.23	10.00	10.00	0.00
4,900.00	86.29	321.62	4,608.82	420.13	-332.72	535.92	10.00	10.00	0.00
4,942.06	90.50	321.62	4,610.00	453.08	-358.82	577.96	10.00	10.00	0.00
5,000.00	90.50	321.62	4,609.50	498.50	-394.78	635.89	0.00	0.00	0.00
5,100.00	90.50	321.62	4,608.62	576.89	-456.86	735.89	0.00	0.00	0.00
5,200.00	90.50	321.62	4,607.75	655.28	-518.95	835.88	0.00	0.00	0.00
5,300.00	90.50	321.62	4,606.88	733.67	-581.03	935.88	0.00	0.00	0.00
5,400.00	90.50	321.62	4,606.00	812.07	-643.11	1,035.88	0.00	0.00	0.00
5,500.00	90.50	321.62	4,605.13	890.46	-705.19	1,135.87	0.00	0.00	0.00
5,600.00	90.50	321.62	4,604.26	968.85	-767.27	1,235.87	0.00	0.00	0.00
5,700.00	90.50	321.62	4,603.39	1,047.24	-829.35	1,335.86	0.00	0.00	0.00
5,800.00	90.50	321.62	4,602.51	1,125.63	-891.43	1,435.86	0.00	0.00	0.00
5,900.00	90.50	321.62	4,601.64	1,204.02	-953.51	1,535.86	0.00	0.00	0.00
6,000.00	90.50	321.62	4,600.77	1,282.41	-1,015.60	1,635.85	0.00	0.00	0.00
6,100.00	90.50	321.62	4,599.90	1,360.80	-1,077.68	1,735.85	0.00	0.00	0.00
6,200.00	90.50	321.62	4,599.02	1,439.19	-1,139.76	1,835.85	0.00	0.00	0.00
6,300.00	90.50	321.62	4,598.15	1,517.59	-1,201.84	1,935.84	0.00	0.00	0.00
6,400.00	90.50	321.62	4,597.28	1,595.98	-1,263.92	2,035.84	0.00	0.00	0.00
6,500.00	90.50	321.62	4,596.41	1,674.37	-1,326.00	2,135.83	0.00	0.00	0.00
6,600.00	90.50	321.62	4,595.53	1,752.76	-1,388.08	2,235.83	0.00	0.00	0.00
6,700.00	90.50	321.62	4,594.66	1,831.15	-1,450.16	2,335.83	0.00	0.00	0.00
6,800.00	90.50	321.62	4,593.79	1,909.54	-1,512.24	2,435.82	0.00	0.00	0.00
6,900.00	90.50	321.62	4,592.91	1,987.93	-1,574.33	2,535.82	0.00	0.00	0.00
7,000.00	90.50	321.62	4,592.04	2,066.32	-1,636.41	2,635.81	0.00	0.00	0.00
7,100.00	90.50	321.62	4,591.17	2,144.71	-1,698.49	2,735.81	0.00	0.00	0.00
7,200.00	90.50	321.62	4,590.30	2,223.11	-1,760.57	2,835.81	0.00	0.00	0.00
7,300.00	90.50	321.62	4,589.42	2,301.50	-1,822.65	2,935.80	0.00	0.00	0.00
7,400.00	90.50	321.62	4,588.55	2,379.89	-1,884.73	3,035.80	0.00	0.00	0.00
7,500.00	90.50	321.62	4,587.68	2,458.28	-1,946.81	3,135.80	0.00	0.00	0.00
7,600.00	90.50	321.62	4,586.81	2,536.67	-2,008.89	3,235.79	0.00	0.00	0.00
7,700.00	90.50	321.62	4,585.93	2,615.06	-2,070.97	3,335.79	0.00	0.00	0.00
7,800.00	90.50	321.62	4,585.06	2,693.45	-2,133.06	3,435.78	0.00	0.00	0.00
7,900.00	90.50	321.62	4,584.19	2,771.84	-2,195.14	3,535.78	0.00	0.00	0.00
8,000.00	90.50	321.62	4,583.32	2,850.23	-2,257.22	3,635.78	0.00	0.00	0.00
8,100.00	90.50	321.62	4,582.44	2,928.63	-2,319.30	3,735.77	0.00	0.00	0.00
8,200.00	90.50	321.62	4,581.57	3,007.02	-2,381.38	3,835.77	0.00	0.00	0.00
8,292.86	90.50	321.62	4,580.76	3,079.81	-2,439.03	3,928.62	0.00	0.00	0.00

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 TVD Reference: RKB = 10' @ 1186.93usft
 MD Reference: RKB = 10' @ 1186.93usft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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
#2403: PBHL - plan hits target center - Point	0.00	0.00	4,580.76	3,079.81	-2,439.03	211,892.00	1,653,298.00	37° 34' 36.570 N	82° 5' 15.557 W
#2403: LP - plan hits target center - Point	0.00	0.00	4,610.00	453.08	-358.82	209,241.24	1,655,347.48	37° 34' 10.602 N	82° 4' 49.716 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,484.00	2,484.00	7"	7	7-1/2

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,726.00	2,726.00	Big Lime Base		-0.50	322.39
2,790.00	2,790.00	Weare Too		-0.50	322.39
3,372.00	3,372.00	Sunberry Top		-0.50	322.39
3,406.00	3,406.00	Berea Top		-0.50	322.39
3,416.00	3,416.00	Dev. Shale		-0.50	322.39

RECEIVED
Office of Oil and Gas

NOV 17 2016

12/02/2016

WV Department of
Environmental Protection

CAM of Kentucky Real Estate, LLC

P.O. Box 1169
Pikeville, Kentucky 41502

June 2, 2015

Chief, Office of Oil & Gas
Department of Environmental Protection
601 57th Street
Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2403 WV State Plane Coordinates N 208,790
E 1,655,632

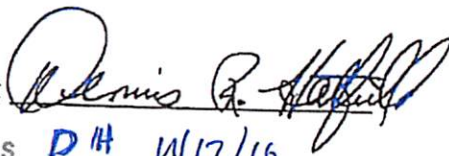
Dear Mr. Martin:

The undersigned owner of the coal that underlies this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided; the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 8/7/15

CAM of Kentucky Real Estate, LLC

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Office of Oil and Gas

By: 
DH 11/17/16

NOV 17 2016

WV Department of
Environmental Protection

Received
Office of Oil & Gas
AUG 17 2015

Logan Coal & Timber Corporation

37 North Valley Road, Suite 2-A
Paoli, Pennsylvania 19301

June 2, 2015

Chief, Office of Oil & Gas
Department of Environmental Protection
601 57th Street
Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2403 WV State Plane Coordinates N 208,790
E 1,655,632

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The undersigned owner of the coal that underlies this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided; the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 7/10/15

Logan Coal & Timber Corporation

By: [Signature]
RW
11/17/16

RECEIVED
Office of Oil and Gas

NOV 17 2016

WV Department of
Environmental Protection

Received
Office of Oil & Gas
AUG 17 2015

C.W Campbell Company

848 Fourth Avenue, Suite 301
Huntington, West Virginia 25701

June 2 2015

Chief, Office of Oil & Gas
Department of Environmental Protection
601 57th Street
Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2403 WV State Plane Coordinates N 208.790
E 1.655.632

Dear Mr. Martin

The undersigned owner of the coal that underlies this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations

Date: July 6, 2015

C.W Campbell Company

By Amy D. Babler, President

ATB
11/17/2016

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Office of Oil and Gas

NOV 17 2016

WV Department of
Environmental Protection

Received
Office of Oil & Gas
AUG 17 2015

JLCLCT, LLC
723 Kanawha Blvd 14th Floor
Charleston, West Virginia 25301

June 2, 2015

Chief, Office of Oil & Gas
Department of Environmental Protection
601 57th Street
Charleston, WV 25304

Quality Natural Gas, LLC
Gas Well Application
Well Number 2403 WV State Plane Coordinates N 208.790
E 1655.632

Dear Ms. Torey Evans

The undersigned coal owner of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 7/23/15

JLCLCT, LLC

By: Tony Evans
TE
11/17/16

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Office of Oil and Gas

NOV 17 2016

WV Department of
Environmental Protection

Received
Office of Oil & Gas
AUG 17 2015

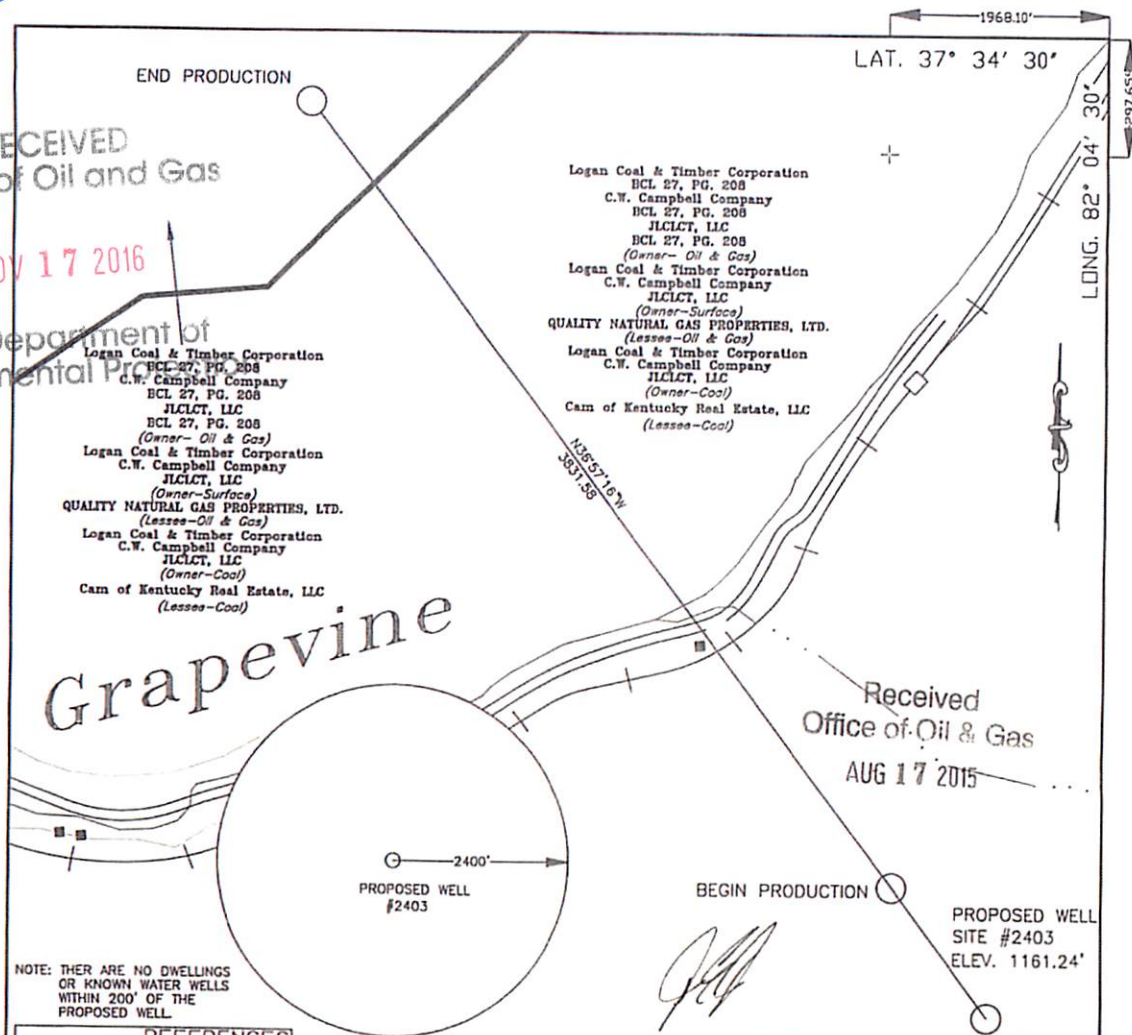
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59-02260H

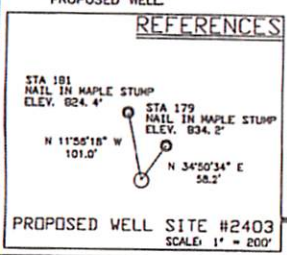
RECEIVED
Office of Oil and Gas

NOV 17 2016

WV Department of
Environmental Protection



NOTE: THERE ARE NO DWELLINGS OR KNOWN WATER WELLS WITHIN 200' OF THE PROPOSED WELL.



Geographic Nad 27
LAT = 37° 34' 5.97"
LONG = 82° 04' 47.77"

UTM NAD 83
Zone 17 (Meter)
N = 4,158481.42
E = 404643.28

State Plane
WV South NAD 83
N = 208790
E = 1,655,632

LEGEND

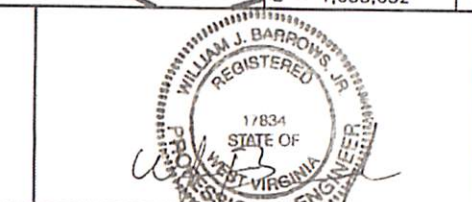
+	SONITES LOCATION WELL ON UNITED STATES TOPOGRAPHICAL MAPS
○	PROPOSED WELL
⊗	PLUGGED WELL
⊙	EXISTING WELL
○	SURVEY STATION
○	TREE
—	ROADS
—+—	RAILROAD
— —	STREAM, DRAIN, CREEK

DRAWING No. WYA2403.DWG

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1 IN 2,500

PROVEN SOURCE OF ELEVATION USGS B. M. MONUMENT #722



B & B Engineering, LLC
36 Hatfield Lane
Prestonsburg, KY 41653
Phone: (606) 874-7005

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
CHARLESTON, WV. 25304

DATE: 06/11/2015
OPERATOR'S WELL NO. 2403
API WELL NO. 47 -- 59 -- 02260H
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF 'GAS') PRODUCTION OR STORAGE DEEP OR SHALLOW

LOCATION: ELEVATION 1161.24 WATER SHED GRAPEVINE CREEK OF TUG FORK OF BIG SANDY
DISTRICT Maconia COUNTY MINGO
QUADRANGLE MAJESTIC

SURFACE OWNER Logan Coal & Timber, C.W. Campbell & JLCLCT, LLC ACREAGE +/-260 Acres
OIL & GAS ROYALTY OWNER Logan Coal & Timber, C.W. Campbell & JLCLCT, LLC LEASE ACREAGE +/-260 Acres
LEASE No. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG _____
TARGET FORMATION DEVONIAN SHALE

WELL OPERATOR QUALITY NATURAL GAS, LLC ESTIMATED DEPTH TVD 4611 TMD 8943
ADDRESS P. O. BOX 480 DESIGNATED AGENT JAMES HILL
Allen, Kentucky 41601 ADDRESS H. C. 71 Rt. 4 BOX 87-A
WHARNCLIFFE, WV. 25651

12/02/2016

Duane Lester

From: Dennis Halbert <DHalbert@rhinolp.com>
Sent: Wednesday, November 16, 2016 1:25 PM
To: Duane Lester
Subject: RE: Relocation of 2403

Duane,
I have reviewed the plat of well 2403 that you sent to me and CAM Mining is okay with its new location.

Dennis Halbert
Chief Engineer

From: Duane Lester [<mailto:dlester@kinzerdrilling.com>]
Sent: Wednesday, November 16, 2016 1:01 PM
To: Dennis Halbert
Subject: Relocation of 2403
Importance: High

Dennis:

Can you shoot me an e-mail stating that CAM is fine with the relocation.....although you gave me a verbal, I need something to give to the WV DEP.....I am strapped for time as the rig is moving onto location.....much appreciated.

Thanks

Duane Lester
Kinzer Business Realty, Ltd.
Quality Natural Gas, LLC
P. O. Box 460
Allen, Kentucky 41601
Telephone #606-874-8041
Facsimile #606-874-9928
Mobile #606-794-8404
dlester@kinzerdrilling.com

590 2260H

MOD

Thanks

Duane Lester
Kinzer Business Realty, Ltd.
Quality Natural Gas, LLC
P. O. Box 460
Allen, Kentucky 41601
Telephone #606-874-8041
Facsimile #606-874-9928
Mobile #606-794-8404
dlester@kinzerdrilling.com

59 02260H
MOD

Kinzer Business Realty, Ltd.

Quality Natural Gas, LLC
P. O. Box 460
Allen, Kentucky 41601
Telephone #606-874-8041
Facsimile #606-874-9928
dlester@kinzdrilling.com

November 16, 2016

West Virginia Department of
Environmental Protection
601 57th Street, S.E.
Charleston, West Virginia 25304

Attn.: Mr. Jeff McLaughlin

Re: API Well #47-5902260
Quality Natural Gas Well #2403H
Revised Plat & Planning Report
Mingo County, West Virginia

Dear Jeff:

Please find enclosed the revised plat and planning report per the request of Mr. Allen D. Flowers regarding the above existing permit.

Based upon an onsite visit by the inspector and pursuant to his request, the permitted location has moved to the new location as shown on the attached plat. The proposed location does not interfere with any current mining operations and has been approved by the current coal operator as shown by the attached e-mail from the Chief Engineer of CAM Mining, LLC.

Should you have any questions, please feel free to contact me at your earliest convenience.

Sincerely,


Duane Lester

cc: file
Permitted Well Application #47-5902260
Quality Natural Gas, LLC Well #2403
Revised Plat & Coordinates
E-mail approving relocation

12/02/2016