



Jackie M. Scholar
Regulatory Reporting

Chevron Appalachia, LLC
Appalachian/Michigan Business Unit
800 Mountain View Drive
Smithfield, PA 15478
Tel 724 564 3721
Fax 724 564 3894
jscholar@chevron.com

June 1, 2017

WV DEP
Oil and Gas Conservation Commission
601 57th Street
Charleston, WV 25304
ATTN: Cindy Raines

RE: Well Operator's Report of Well Work WR-35 **RESUBMISSION**
Curry 8H

Dear Cindy,

Enclosed here within please find one (1) corrected Well Operator's Report of Well Work WR-35 for **Curry 8H, (API 47-5101784)**. The following items have been corrected:

- **Deepest formation penetrated**
- **Producing formation**

Chevron Appalachia, LLC would like to ask for an extension on the confidentiality until **July 11, 2019**, on the above referenced well because of propriety information that is released prematurely could jeopardize future operations.

Please send all correspondence to our Fayette County office listed at the top right-hand corner. If you have any questions, please contact me at (724) 564-3721. Thank you.

Sincerely,
Chevron Appalachia, LLC

A handwritten signature in blue ink that reads "Jackie M. Scholar".

Jackie M. Scholar
Regulatory Reporting
jscholar@chevron.com

Enclosure

AMENDED

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

RECEIVED
Office of Oil and Gas
MAY 15 2017
WV Department of
Environmental Protection

API 47-051-01784 County Marshall District Washington
Quad Moundsville Pad Name Curry Field/Pool Name _____
Farm name Curry Well Number 8H
Operator (as registered with the OOG) Chevron Appalachia, LLC
Address 800 Mountain View Drive City Smithfield State PA Zip 15478

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 5156653658 4417813.1 Easting 1641330.555 528578.6
Landing Point of Curve Northing 515928.810 4417890.4 Easting 1640766.550 528345.4
Bottom Hole Northing 520408.930 4419235.2 Easting 1636812.140 527117.9

Elevation (ft) 1317' 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 _____
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 - Barite, Surfactant, Calcium Chloride

Date permit issued 1/14/2015 Date drilling commenced 3/19/2015 Date drilling ceased 2/19/2016
Date completion activities began 4/19/2016 Date completion activities ceased 7/11/2016
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 1/2" stream @ 355' GL per mudlog Open mine(s) (Y/N) depths _____ N
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____ N
Coal depth(s) ft 819' GL per mud log Cavern(s) encountered (Y/N) depths _____ N

Is coal being mined in area (Y/N) _____ is in the sealed and abandoned Alexander Mine

APPROVED
NAME: [Signature]
DATE: 5/25/17

Reviewed by: [Signature]

Small, faint, illegible markings or text located at the bottom center of the page.

API 47-051 - 01784

Farm name Curry

Well number 8H

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	36"	30"	80'	New	X-42; 118.76#		Y
Surface	26"	20"	875'	New	J-55; 94#	811'	N *Performed shoe land & grouted to surface*
Coal							
Intermediate 1	17 1/2"	13 3/8"	2169'	New	N-80; 68#		Y
Intermediate 2	12 1/4"	9 5/8"	8902'	New	P-110; 40#		Y
Intermediate 3							
Production	8 1/2"	5 1/2"	17740'	New	P-110; 23#		Y
Tubing							
Packer type and depth set							

Comment Details _____

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	Bulk	216					
Surface	Class A	1135	15.60	1.20	1362	Surface	8
Coal							
Intermediate 1	Class A	1844	15.20	1.26	2323	Surface	8
Intermediate 2	Class G	Lead: 1523 Tail-1053	Lead-14.20, Tail-15.20	Lead-1.47, Tail-1.13	Lead-1139, Tail-1190	Surface	8
Intermediate 3							
Production	Class G	3525	15.00	1.30	4582	Surface	8
Tubing							

Drillers TD (ft) 17755 MD GL (11,328' TVD GL)

Loggers TD (ft) 11,688' MD GL (11,688' TVD GL)

Deepest formation penetrated Trenton

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 10235' MD GL (10,239' TVD GL)

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 A bow spring centralizer every joint in the water string.
a bow spring centralizer every two joints for the coal and intermediate strings then for the production string there is a centralizer every joint in the lateral and curve then one every two joints from KOP to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS See attached perforation and stimulation reports

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 051 - 01784

Farm name Curry

Well number 8H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHED			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	SEE		ATTACHED					
RECEIVED Office of Oil and Gas MAY 5 2017 WV Department of Environmental Protection								

Please insert additional pages as applicable.

API 47- 051 - 01784

Farm name Curry

Well number 8H

PRODUCING FORMATION(S)

DEPTHS

Utica 6557 TVD 7382 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 7850 psi Bottom Hole n/a psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5790 mcfpd Oil 0 bpd NGL 0 bpd Water 375 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
SEE BELOW	0		0		

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
Address _____ City _____ State _____ Zip _____

Logging Company Stratagraph NE Inc
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company Baker Hughes
Address 5373 West Alabama, Suite 300 City Houston State TX Zip 77056

Stimulating Company Schlumberger Technology Corp
Address 4600 J Barry Court, Suite 200 City Canonsburg State PA Zip 15307

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 724-564-3721
Signature [Signature] Title Regulatory Compliance Team Lead Date April 25, 2017

	Top MID	Bottom MD	Top TVD	Bottom TVD	Description
SLTS/SS	90	500	90	500	1/2" stream of water at 370'
LS/SLTS	500	700	500	700	
LS	700	834	700	834	
Coal	834	850	834	850	
LS/SLTST	850	3435	850	3435	
Speechley Sands	3435	3470	3435	3470	
Siltst/Sh	3470	5650	3470	5650	
Sh	5650	6315	5650	6311	
Middlesex	6315	6376	6311	6373	
Burket	6376	6410	6373	6408	
Tully	6410	6444	6408	6441	
S5 Hamilton	6444	6533	6441	6351	
S3	6533	6548	6351	6545	
Stafford/Cherry Valley	6548	6550	6545	6546	
Lower Marcellus/S2B	6550	6806	6546	6802	
Oriskany	6806	7390	6802	7387	
Salina	7390	8402	7387	8399	
Lockport	8402	9350	8399	9346	
Queenston	9350	11271	9346	11267	
Utica	11271	11406	11267	11402	
Point Pleasant	11406	11527	11402	11523	
Trenton	11527		11523		

API 47-051 - 01784 Farm name Curry Well number 8H

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	36"	30"	80'	New	X-42; 118.76#		Y
Surface	26"	20"	875'	New	J-55; 94#	811'	N *Performed shoe tact & grouted to surface*
Coal							
Intermediate 1	17 1/2"	13 3/8"	2169'	New	N-80; 68#		Y
Intermediate 2	12 1/4"	9 5/8"	8902'	New	P-110; 40#		Y
Intermediate 3							
Production	8 1/2"	5 1/2"	17740'	New	P-110; 23#		Y
Tubing							
Packer type and depth set							

Comment Details _____

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	Bulk	216					
Surface	Class A	1135	15.60	1.20	1362	Surface	8
Coal							
Intermediate 1	Class A	1844	15.20	1.26	2323	Surface	8
Intermediate 2	Class G	Lead:1523 Tail-1053	Lead-14.20; Tail-15.20	Lead-1.47; Tail-1.13	Lead-1139; Tail-1190	Surface	8
Intermediate 3							
Production	Class G	3525	15.00	1.30	4582	Surface	8
Tubing							

Drillers TD (ft) 17755' MD GL (11,328' TVD GL) Loggers TD (ft) 11,688' MD GL (11,688' TVD GL)
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____
 Kick off depth (ft) 10235' MD GL (10,239' TVD GL)

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 A bow spring centralizer every joint in the water string, a bow spring centralizer every two joints for the coal and intermediate strings, then for the production string there is a centralizer every joint in the lateral and curve, then one every two joints from KOP to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS See attached perforation and stimulation reports.

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

RECEIVED
Office of Oil and Gas
MAY 5 2017
WV Department of Environmental Protection

API 47- 051 - 01784 Farm name Curry Well number 8H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6557	TVD	7382 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 7850 psi Bottom Hole n/a psi DURATION OF TEST 24 hrs
 OPEN FLOW Gas 5790 mcfpd ON NGL 0 bpd Water 375 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
SEE BELOW	0		0		

RECEIVED
Office of Oil and Gas
MAY 5 2017
WV Department of
Environmental Protection

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
 Address _____ City _____ State _____ Zip _____
 Logging Company Stratagraph NE Inc
 Address 116 Ellsworth Avenue City Marietta State OH Zip 45750
 Cementing Company Baker Hughes
 Address 5373 West Alabama, Suite 300 City Houston State TX Zip 77056
 Stimulating Company Schlumberger Technology Corp
 Address 4600 J Barry Court, Suite 200 City Canonsburg State PA Zip 15307

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 724-564-3721
 Signature [Signature] Title Regulatory Compliance Team Lead Date April 25, 2017



Jackie M. Scholar
Regulatory Reporting

Chevron Appalachia, LLC
Appalachian/Michigan Business Unit
800 Mountain View Drive
Smithfield, PA 15478
Tel 724 564 3721
Fax 724 564 3894
jscholar@chevron.com

September 21, 2016

9/21/2019

CERTIFIED MAIL: 7015 0640 0001 0567 4833

WV DEP
Oil and Gas Conservation Commission
601 57th Street
Charleston, WV 25304
ATTN: Cindy Raines

RE: Well Operator's Report of Well Work WR-35 **RESUBMISSION**
Curry 8H

Dear Cindy,

Enclosed here within please find one (1) Well Operator's Report of Well Work WR-35, proof of our original submission (signed green card), one (1) copy of the Plat, (Mylar copy was submitted with original submission), one (1) copy of the FracFocus report, one (1) copy of the wireline logs, and one (1) copy of the directional Survey for **Curry 8H, (API 47-5101784)**.

Chevron Appalachia, LLC would like to request confidentiality for one (1) year on the above referenced well because of propriety information that is released prematurely could jeopardize future operations.

Please send all correspondence to our Fayette County office listed at the top right-hand corner. If you have any questions, please contact me at (724) 564-3721. Thank you.

Sincerely,
Chevron Appalachia, LLC

Jackie M. Scholar
Regulatory Reporting
jscholar@chevron.com

Enclosures

cc: Kevin Coleman

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 City, State
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Dept. of Environmental Protection
 Oil & Gas Conservation Commission
 601 57th Street, SE
 Charleston, WV 25304

Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature X <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery 2016 08 15</p>
<p>1. Article Addressed to:</p> <p>Dept. of Environmental Protection Oil & Gas Conservation Commission 601 57th Street, SE Charleston, WV 25304</p>  <p>9590 9403 0977 5223 7478 48</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p> <p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail (over \$500)</p>
<p>2. Article Number (Transfer from service label) 7015 0640 0001 0567 4963</p>	<p>Domestic Return Receipt</p>

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

API 47-051-01784 County Marshall District Washington
Quad Moundsville Pad Name Curry Field/Pool Name _____
Farm name Curry Well Number 8H
Operator (as registered with the OOG) Chevron Appalachia, LLC
Address 800 Mountain View Drive City Smithfield State PA Zip 15478

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 5156653658 Easting 1641330 555
Landing Point of Curve Northing 515928 810 Easting 1640766 550
Bottom Hole Northing 520408 930 Easting 1636812 140

Elevation (ft) 1317' 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 _____
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 - Barite, Surfactant, Calcium Chloride

Date permit issued 1/14/2015 Date drilling commenced 3/19/2015 Date drilling ceased 2/19/2016
Date completion activities began 4/19/2016 Date completion activities ceased 7/11/2016
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 1/2" stream @ 355' GL per mudlog Open mine(s) (Y/N) depths N
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths N
Coal depth(s) ft 819' GL per mud log Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) No it is in the sealed and abandoned Alexander Mine

Reviewed by: _____

API 47-051 - 01784

Farm name Curry

Well number 8H

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	36"	30"	80'	New	X-42, 118.76#		Y
Surface	26"	20"	875'	New	J-55, 94#	811'	N *Performed shoe tact & grouted to surface*
Coal							
Intermediate 1	17 1/2"	13 3/8"	2169'	New	N-80, 68#		Y
Intermediate 2	12 1/4"	9 5/8"	8902'	New	P-110, 40#		Y
Intermediate 3							
Production	8 1/2"	5 1/2"	17740'	New	P-110, 23#		Y
Tubing							
Packer type and depth set							

Comment Details _____

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	Bulk	216					
Surface	Class A	1135	15.60	1.20	1362	Surface	8
Coal							
Intermediate 1	Class A	1844	15.20	1.26	2323	Surface	8
Intermediate 2	Class G	Lead-1523 Tail-1053	Lead-14.20 Tail-15.20	Lead-1.47 Tail-1.13	Lead-1139 Tail-1190	Surface	8
Intermediate 3							
Production	Class G	3525	15.00	1.30	4582	Surface	8
Tubing							

Drillers TD (ft) 17755 MD GL (11,328 TVD GL)

Loggers TD (ft) 11,688 MD GL (11,688 TVD GL)

Deepest formation penetrated Marcellus

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 10235 MD GL (10,239 TVD GL)

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 A bow spring centralizer every joint in the water string a bow spring centralizer every two joints for the coal and intermediate strings then for the production string there is a centralizer every joint in the lateral and curve then one every two joints from KOP to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS See attached perforation and stimulation reports

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47-051 - 01784

Farm name Curry

Well number 8H

PERFORATION RECORD

Stage No	Perforation date	Perforated from MD ft	Perforated to MD ft	Number of Perforations	Formation(s)
	SEE	ATTACHED			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen other (units)
	SEE		ATTACHED					

Please insert additional pages as applicable.

API 47-051-01784 Farm name Curry Well number 8H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6557</u>	<u>TVD</u>	<u>7382</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd
 GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
SEE BELOW	0		0		

Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
 Address _____ City _____ State _____ Zip _____

Logging Company Stratagraph NE Inc
 Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company Baker Hughes
 Address 5373 West Alabama, Suite 300 City Houston State TX Zip 77056

Stimulating Company Schlumberger Technology Corp
 Address 4600 J Barry Court, Suite 200 City Canonsburg State PA Zip 15307

Please insert additional pages as applicable.

Completed by Jackie M Scholar Telephone 724-564-3721
 Signature [Signature] Title Regulatory Compliance Team Lead Date August 2, 2016

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Lithology/Formation	Top TVD	Bottom TVD	TOP MD	Bottom MD	Type of Rock
SLTS/SS	90	500	90	500	Lithologies are taken from Curry 2H mudlog
LS/SLTST	500	700	500	700	
LS	700	834	700	834	
Coal	834	850	834	850	
LS/SLTST	850	944	850	944	
Speechley Sands	3435	3470	3435	3470	SS, SLTS
SLTST/SH	3470	5650	3470	5650	SLTST, SS, SH
SH	5565	6312	5650	6784	
Middlesex	6312	6403	6784	6945	SH, drk gry mgry
Burkett	6403	6414	6945	6966	
Tully	6414	6450	6966	7038	
S5 Hamilton	6450	6539	7038	7290	SH
S3	6539	6555	7290	7368	SH, tr LS
Stafford / Cherry Valley	6555	6555	7368	7382	LS, SH
Lower Marcellus / S2B	6557	--	7382	--	SH drk gry, tr LS

API: 47-5101784	Well Name: Curry	Well Number: 8H
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DRILLING CONTRACTORS		
Driller	Driller	Driller
Name Rocky Mountain drilling	Name Highlands Drilling LLC	Name Nabors Drilling USA
Address 185 North Vernal Avenue, suite 2	Address 900 Virginia Street East	Address 10100 NW 10th Street
City - State - Zip Vernal, UT 84078	City - State - Zip Charlestown, WV 25301	City - State - Zip Oklahoma City, OK 73124

API: 47-5101784	Well Name: Curry	Well Number: 8H
-----------------	------------------	-----------------

PERFORATION RECORD					
Stage No	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	6/23/16	17424	17302	50	Utica
2	6/23/16	17104	17256	50	Utica
3	6/23/16	17064	16902	50	Utica
4	6/23/16	16704	16862	50	Utica
5	6/24/16	16664	16502	50	Utica
6	6/24/16	16464	16302	50	Utica
7	6/24/16	16264	16102	50	Utica
8	6/24/16	16064	15902	50	Utica
9	6/25/16	15864	15707	50	Utica
10	6/25/16	15664	15502	50	Utica
11	6/25/16	15464	15302	50	Utica
12	6/25/16	15264	15102	50	Utica
13	6/26/16	15064	14902	50	Utica
14	6/26/16	14864	14702	50	Utica
15	6/26/16	14664	14502	50	Utica
16	6/26/16	14464	14302	50	Utica
17	6/27/16	14264	14099	50	Utica
18	6/27/16	14064	13902	50	Utica
19	6/27/16	13864	13702	50	Utica
20	6/28/16	13664	13502	50	Utica
21	6/28/16	13464	13302	50	Utica
22	6/28/16	13264	13102	50	Utica
23	6/29/16	13064	12902	50	Utica
24	6/29/16	12864	12702	50	Utica
25	6/29/16	12664	12508	50	Utica
26	6/29/16	12464	12302	50	Utica
27	6/29/16	12282	12102	50	Utica
28	6/30/16	12064	11905	50	Utica
29	6/30/16	11864	11702	50	Utica
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Please insert additional copies of this page if additional rows/stages are needed

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 6/22/2016
 Job End Date: 6/30/2016
 State: West Virginia
 County: Marshall
 API Number: 47-051-01784-00-00
 Operator Name: Chevron USA Inc.
 Well Name and Number: Curry 8H
 Latitude: 39.90992495
 Longitude: -80.66633907
 Datum: NAD83
 Federal Well: NO
 Indian Well: NO
 True Vertical Depth: 11,327
 Total Base Water Volume (gal): 11,808,135
 Total Base Non Water Volume: 0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Schlumberger	N/A	Water (Including Mix Water Supplied by Client)*	7732-18-5		87.19345	
U042	Schlumberger	Chelating Agent		Listed Below			

Submitted 7/29/16

B317	Schlumberger	Scale Inhibitor		Listed Below				
M300	Schlumberger	Mycicide/T/S GA 25		Listed Below				
A264A	Schlumberger	Corrosion Inhibitor		Listed Below				
B466	Schlumberger	Moderate Salinity Friction Reducer		Listed Below				
S012-4070	Schlumberger	Propping Agent		Listed Below				
S100	Schlumberger	Fluid Loss Additive		Listed Below				
L058	Schlumberger	Iron Control Agent		Listed Below				
H315	Schlumberger	Acid		Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the Individual Ingredients.								
			Quartz, Crystalline silica	14808-60-7	98.58287	12.62506		
			Hydrochloric acid	7647-01-0	0.70776	0.09064		

			2-Propenoic acid, ammonium salt, polymer with 2-propenamide, sodium salt	910644-97-2	0.20780	0.02661	
			Distillates, petroleum, hydro-treated light	64742-47-8	0.19241	0.02464	
			Glutaraldehyde	111-30-8	0.10644	0.01363	
			Ammonium sulfate	7783-20-2	0.08466	0.01084	
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.06440	0.00825	
			Ammonium acetate	631-61-8	0.04618	0.00591	
			Alcohol, C10-16, ethoxylated	68002-97-1	0.02812	0.00360	
			Alcohol, C12-C14, ethoxylated	68439-50-9	0.02771	0.00355	
			Alcohol, C12-C16, ethoxylated	68551-12-2	0.02771	0.00355	
			Sorbitan monooleate	1338-43-8	0.02309	0.00296	
			Sodium thiosulphate	7772-98-7	0.02309	0.00296	
			Ethanol, 2,2',2''-nitrioltris-, 1,1',1''-tris (dihydrogen phosphate), sodium salt	68171-29-9	0.01748	0.00224	
			Ethoxylated oleylamine	26635-93-8	0.01154	0.00148	
			Trisodium ortho phosphate	7601-54-9	0.00769	0.00098	
			Sodium erythorbate	6381-77-7	0.00664	0.00085	
			Quaternary ammonium compounds, ethylbis (hydroxyethyl)tallow alkyl, ethoxylated, Et sulfates (salts)	68071-95-4	0.00654	0.00084	
			Sodium Glycolate (impurity)	2836-32-0	0.00522	0.00067	
			Methanol	67-56-1	0.00359	0.00046	
			Ethylene Glycol	107-21-1	0.00219	0.00028	
			Sodium hydroxide	1310-73-2	0.00174	0.00022	

			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.00174	0.00022	
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.00174	0.00022	
			Reaction product of: acetophenone, formaldehyde, cyclohexylamine, methanol and acetic acid	224635-63-6	0.00148	0.00019	
			Trisodium nitrilotriacetate (impurity)	5064-31-3	0.00087	0.00011	
			Cinnamaldehyde	104-55-2	0.00082	0.00011	
			Propan-2-ol	67-63-0	0.00077	0.00010	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.00062	0.00008	
			Acetic acid(impurity)	64-19-7	0.00016	0.00002	
			Acetophenone	98-86-2	0.00016	0.00002	
			Amines, tallow alkyl, ethoxylated	61791-26-2	0.00012	0.00002	
			Formaldehyde (impurity)	50-00-0	0.00010	0.00001	
			2-Propanamid (impurity)	79-06-1	0.00008	0.00001	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 *** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line
 Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/22/2016
Job End Date:	6/30/2016
State:	West Virginia
County:	Marshall
API Number:	47-051-01784-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Curry 8H
Latitude:	39.90992495
Longitude:	-80.66633907
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,327
Total Base Water Volume (gal):	11,808,135
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

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			Water (Including Mix Water Supplied by Client)*	7732-18-5		87.19345	
U042	Schlumberger	Chelating Agent					
				Listed Below			



Submitted 7/28/16

B317	Schlumberger	Scale Inhibitor		Listed Below				
M300	Schlumberger	Myacidel/Ts GA 25		Listed Below				
A264A	Schlumberger	Corrosion Inhibitor		Listed Below				
B466	Schlumberger	Moderate Salinity Friction Reducer		Listed Below				
S012-4070	Schlumberger	Propping Agent		Listed Below				
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		Hydrochloric acid	7647-01-0	0.70776	0.09064			

				2-Propenoic acid, ammonium salt, polymer with 2-propenamide, sodium salt	910644-97-2	0.20780	0.02661	
				Distillates, petroleum, hydro-treated light	64742-47-8	0.19241	0.02464	
				Glutaraldehyde	111-30-8	0.10644	0.01363	
				Ammonium sulfate	7783-20-2	0.08466	0.01084	
				Tetrasodium ethylenediaminetetraacetate	64-02-8	0.06440	0.00825	
				Ammonium acetate	631-61-8	0.04618	0.00591	
				Alcohols, C10-16, ethoxylated	68002-97-1	0.02812	0.00360	
				Alcohols, C12-C14, ethoxylated	68439-50-9	0.02771	0.00355	
				Alcohols, C12-C16, ethoxylated	68551-12-2	0.02771	0.00355	
				Sorbitan monooleate	1338-43-8	0.02309	0.00296	
				Sodium thiosulphate	7772-98-7	0.02309	0.00296	
				Ethanol, 2,2',2''-nitrioltris-, 1,1',1''-tris (dihydrogen phosphate), sodium salt	68171-29-9	0.01748	0.00224	
				Ethoxylated oleylamine	26635-93-8	0.01154	0.00148	
				Trisodium ortho phosphate	7601-54-9	0.00769	0.00098	
				Sodium erythorbate	6381-77-7	0.00664	0.00085	
				Quaternary ammonium compounds, ethylbis (hydroxyethyl)lallow alkyl, ethoxylated, Et sulfates (salts)	68071-95-4	0.00654	0.00084	
				Sodium Glycolate (impurity)	2836-32-0	0.00522	0.00067	
				Methanol	67-56-1	0.00359	0.00046	
				Ethylene Glycol	107-21-1	0.00219	0.00028	
				Sodium hydroxide	1310-73-2	0.00174	0.00022	

				Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.00174	0.00022	
				Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.00174	0.00022	
				Reaction product of: acetophenone, formaldehyde, cyclohexylamine, methanol and acetic acid	224635-63-6	0.00148	0.00019	
				Trisodium nitriiotriacetate (impurity)	5064-31-3	0.00087	0.00011	
				Cinnamaldehyde	104-55-2	0.00082	0.00011	
				Propan-2-ol	67-63-0	0.00077	0.00010	
				Alcohol, C9-C11, Ethoxylated	68439-46-3	0.00062	0.00008	
				Acetic acid(impurity)	64-19-7	0.00016	0.00002	
				Acetophenone	98-86-2	0.00016	0.00002	
				Amines, tallow alkyl, ethoxylated	61791-26-2	0.00012	0.00002	
				Formaldehyde (impurity)	50-00-0	0.00010	0.00001	
				2-Propenamid (impurity)	79-06-1	0.00008	0.00001	

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 Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



Actual Wellpath Report

Curry 8H AWP Proj: 11720'
Page 1 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #08
Area	Marshall County, WV	Well	Curry 8H Pilot
Field	Marshall County	Wellbore	Curry 8H AWP
Facility	Curry Pad		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect@ 4.0.1
North Reference	True	User	Edsaryar
Scale	0.999953	Report Generated	02/Mar/2016 at 14:52
Convergence at slot	n/a	Database/Source file	WA_MPL_EASTERNUS_Defn/Curry_8H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North(ft)	East(ft)	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	17.65	-20.33	1641330.56	515665.66	39°54'35.730"N	80°39'58.821"W
Facility Reference Pt			1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W
Field Reference Pt			1644569.15	516963.83	39°54'48.972"N	80°39'17.476"W

WELLPATH DATUM

Calculation method	Minimum curvature	Nabors X07 (RKB) to Facility Vertical Datum	32.00ft
Horizontal Reference Pt	Slot	Nabors X07 (RKB) to Mean Sea Level	1352.00ft
Vertical Reference Pt	Nabors X07 (RKB)	Nabors X07 (RKB) to Mud Line at Slot (Slot #08)	32.00ft
MD Reference Pt	Nabors X07 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	317.96°



Actual Wellpath Report

Curry 8H AWP Proj: 11720"
Page 2 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #08
Area	Marshall County, WV	Well	Curry 8H Pilot
Field	Marshall County	Wellbore	Curry 8H AWP
Facility	Curry Pad		

WELLPATH DATA (125 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TYD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	153.830	0.00	0.00	0.00	0.00	1641330.56	515665.66	39°54'35.730"N	80°39'58.821"W	0.00	0.000	0.00	0.00	0.00
32.00	0.000	153.830	32.00	0.00	0.00	0.00	1641330.56	515665.66	39°54'35.730"N	80°39'58.821"W	0.00	0.000	0.00	0.00	0.00
132.00	0.120	153.830	132.00	-0.10	-0.09	0.05	1641330.60	515665.57	39°54'35.729"N	80°39'58.820"W	0.10	153.830	0.12	0.12	0.00
232.00	0.190	259.570	232.00	-0.11	-0.22	-0.07	1641330.49	515665.44	39°54'35.728"N	80°39'58.821"W	0.23	197.969	0.25	0.07	105.74
332.00	0.200	285.480	332.00	0.12	-0.20	-0.40	1641330.16	515665.46	39°54'35.728"N	80°39'58.826"W	0.45	243.385	0.09	0.01	25.91
432.00	0.140	292.380	432.00	0.38	-0.11	-0.68	1641329.88	515665.56	39°54'35.729"N	80°39'58.829"W	0.69	260.990	0.06	-0.06	6.90
532.00	0.210	318.360	532.00	0.67	0.08	-0.92	1641329.64	515665.75	39°54'35.731"N	80°39'58.832"W	0.92	274.681	0.10	0.07	25.98
632.00	0.080	335.450	632.00	0.92	0.28	-1.07	1641329.50	515665.95	39°54'35.733"N	80°39'58.834"W	1.10	284.462	0.14	-0.13	17.09
732.00	0.140	27.690	732.00	1.03	0.45	-1.04	1641329.53	515666.12	39°54'35.734"N	80°39'58.834"W	1.13	293.255	0.11	0.06	52.24
832.00	0.150	24.980	832.00	1.12	0.67	-0.93	1641329.64	515666.35	39°54'35.737"N	80°39'58.833"W	1.15	305.972	0.01	0.01	-2.71
932.00	0.370	224.360	932.00	1.15	0.56	-1.10	1641329.47	515666.24	39°54'35.735"N	80°39'58.835"W	1.23	297.075	0.51	0.22	-160.62
1032.00	1.050	233.480	1031.99	1.22	-0.21	-2.06	1641328.50	515665.47	39°54'35.728"N	80°39'58.847"W	2.07	264.068	0.69	0.68	9.12
1132.00	2.160	233.080	1131.95	1.48	-1.89	-4.30	1641326.23	515663.82	39°54'35.711"N	80°39'58.876"W	4.70	246.278	1.11	1.11	-0.40
1232.00	3.570	233.100	1231.82	1.92	-4.89	-8.30	1641322.20	515660.88	39°54'35.682"N	80°39'58.927"W	9.64	239.483	1.41	1.41	0.02
1332.00	3.580	232.320	1331.63	2.44	-8.67	-13.26	1641317.19	515657.16	39°54'35.644"N	80°39'58.991"W	15.84	236.822	0.05	0.01	-0.78
1432.00	3.710	231.050	1431.42	2.85	-12.61	-18.25	1641312.15	515653.29	39°54'35.605"N	80°39'59.055"W	22.18	235.349	0.15	0.13	-1.27
1532.00	3.330	228.410	1531.23	3.05	-16.57	-22.94	1641307.41	515649.39	39°54'35.566"N	80°39'59.115"W	28.30	234.147	0.41	-0.38	-2.64
1632.00	3.030	225.530	1631.08	2.96	-20.35	-27.00	1641303.30	515645.66	39°54'35.529"N	80°39'59.167"W	33.81	232.984	0.34	-0.30	-2.88
1732.00	2.390	221.960	1730.97	2.63	-23.76	-30.28	1641299.98	515642.30	39°54'35.495"N	80°39'59.209"W	38.48	231.880	0.66	-0.64	-3.57
1832.00	2.640	213.070	1830.87	1.82	-27.24	-32.93	1641297.28	515638.85	39°54'35.461"N	80°39'59.243"W	42.73	230.402	0.46	0.25	-8.89
1932.00	3.060	212.410	1930.75	0.51	-31.42	-35.61	1641294.54	515634.71	39°54'35.419"N	80°39'59.278"W	47.49	228.580	0.42	0.42	-0.66
2032.00	2.670	216.250	2030.62	-0.67	-35.55	-38.42	1641291.68	515630.61	39°54'35.379"N	80°39'59.314"W	52.35	227.222	0.43	-0.39	3.84
2132.00	2.280	210.610	2130.53	-1.74	-39.14	-40.81	1641289.25	515627.05	39°54'35.343"N	80°39'59.344"W	56.55	226.196	0.46	-0.39	-5.64
2142.00	2.240	209.940	2140.52	-1.86	-39.48	-41.01	1641289.04	515626.72	39°54'35.340"N	80°39'59.347"W	56.93	226.087	0.48	-0.40	-6.70
2261.00	1.140	200.460	2259.47	-3.13	-42.61	-42.58	1641287.43	515623.61	39°54'35.309"N	80°39'59.367"W	60.24	224.985	0.95	-0.92	-7.97
2356.00	0.800	185.830	2354.46	-4.01	-44.15	-42.98	1641287.01	515622.07	39°54'35.294"N	80°39'59.372"W	61.62	224.231	0.44	-0.36	-15.40
2451.00	0.550	209.050	2449.45	-4.60	-45.21	-43.27	1641286.71	515621.02	39°54'35.283"N	80°39'59.376"W	62.58	223.744	0.39	-0.26	24.44
2545.00	0.390	211.500	2543.45	-4.84	-45.88	-43.66	1641286.31	515620.36	39°54'35.276"N	80°39'59.381"W	63.33	223.580	0.17	-0.17	2.61
2640.00	0.400	237.560	2638.44	-4.87	-46.33	-44.11	1641285.86	515619.91	39°54'35.272"N	80°39'59.387"W	63.97	223.591	0.19	0.01	27.43
2734.00	0.230	242.290	2732.44	-4.77	-46.59	-44.55	1641285.41	515619.65	39°54'35.269"N	80°39'59.392"W	64.47	223.715	0.18	-0.18	5.03



Actual Wellpath Report

Curry 8H AWP Proj: 11720"
Page 3 of 6



REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #08
Area	Marshall County, WV	Well	Curry 8H Pilot
Field	Marshall County	Wellbore	Curry 8H AWP
Facility	Curry Pad		

WELLPATH DATA (125 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2828.00	0.580	291.410	2826.44	-4.30	-46.51	-45.16	1641284.80	515619.74	39°54'35.270"N	80°39'59.400"W	64.83	224.157	0.49	0.37	52.26
2923.00	0.670	293.430	2921.43	-3.36	-46.11	-46.12	1641283.85	515620.15	39°54'35.274"N	80°39'59.412"W	65.22	225.003	0.10	0.09	2.13
3018.00	0.730	267.740	3016.43	-2.47	-45.92	-47.23	1641282.74	515620.36	39°54'35.276"N	80°39'59.427"W	65.87	225.810	0.33	0.06	-27.04
3112.00	0.850	286.410	3110.42	-1.49	-45.74	-48.50	1641281.47	515620.55	39°54'35.278"N	80°39'59.443"W	66.67	226.676	0.30	0.13	19.86
3207.00	0.590	286.640	3205.41	-0.48	-45.40	-49.64	1641280.33	515620.91	39°54'35.281"N	80°39'59.458"W	67.28	227.555	0.27	-0.27	0.24
3301.00	0.740	285.400	3299.40	0.45	-45.10	-50.69	1641279.29	515621.22	39°54'35.284"N	80°39'59.471"W	67.85	228.339	0.16	0.16	-1.32
3396.00	0.730	291.190	3394.40	1.51	-44.72	-51.85	1641278.14	515621.62	39°54'35.288"N	80°39'59.486"W	68.47	229.221	0.08	-0.01	6.09
3491.00	0.910	293.340	3489.39	2.73	-44.20	-53.11	1641276.89	515622.15	39°54'35.293"N	80°39'59.502"W	69.10	230.226	0.19	0.19	2.26
3586.00	1.220	301.920	3584.37	4.39	-43.37	-54.66	1641275.35	515623.00	39°54'35.301"N	80°39'59.522"W	69.77	231.568	0.37	0.33	9.03
3681.00	1.330	297.230	3679.35	6.39	-42.34	-56.50	1641273.52	515624.06	39°54'35.311"N	80°39'59.546"W	70.60	233.154	0.16	0.12	-5.18
3775.00	1.580	302.230	3773.32	8.66	-41.15	-58.57	1641271.47	515625.28	39°54'35.323"N	80°39'59.572"W	71.58	234.908	0.30	0.27	5.56
3870.00	1.560	304.560	3868.28	11.18	-39.72	-60.74	1641269.31	515626.74	39°54'35.337"N	80°39'59.600"W	72.57	236.819	0.07	-0.02	2.45
3964.00	1.220	301.960	3962.25	13.38	-38.46	-62.64	1641267.43	515628.02	39°54'35.350"N	80°39'59.624"W	73.51	238.450	0.37	-0.36	-2.77
4059.00	1.090	300.050	4057.23	15.22	-37.47	-64.28	1641265.80	515629.03	39°54'35.360"N	80°39'59.645"W	74.41	239.759	0.14	-0.14	-2.01
4153.00	0.940	310.650	4151.22	16.83	-36.52	-65.64	1641264.45	515629.99	39°54'35.369"N	80°39'59.663"W	75.12	240.908	0.26	-0.16	11.28
4247.00	0.930	321.780	4245.21	18.36	-35.42	-66.70	1641263.41	515631.11	39°54'35.380"N	80°39'59.676"W	75.52	242.028	0.19	-0.01	11.84
4341.00	1.070	318.460	4339.19	20.00	-34.17	-67.75	1641262.37	515632.38	39°54'35.392"N	80°39'59.690"W	75.88	243.239	0.16	0.15	-3.53
4436.00	1.110	317.580	4434.18	21.80	-32.82	-68.96	1641261.18	515633.74	39°54'35.405"N	80°39'59.706"W	76.37	244.547	0.05	0.04	-0.93
4530.00	1.300	312.560	4528.15	23.77	-31.43	-70.36	1641259.80	515635.15	39°54'35.419"N	80°39'59.723"W	77.06	245.930	0.23	0.20	-5.34
4625.00	1.690	298.460	4623.12	26.17	-30.03	-72.38	1641257.80	515636.57	39°54'35.433"N	80°39'59.749"W	78.37	247.466	0.56	0.41	-14.84
4718.00	1.960	292.490	4716.07	28.90	-28.77	-75.06	1641255.14	515637.87	39°54'35.446"N	80°39'59.784"W	80.38	249.028	0.35	0.29	-6.42
4812.00	2.140	300.960	4810.01	32.03	-27.25	-78.05	1641252.17	515639.42	39°54'35.461"N	80°39'59.822"W	82.67	250.752	0.37	0.19	9.01
4910.00	2.010	302.040	4907.95	35.43	-25.69	-81.08	1641249.17	515641.32	39°54'35.496"N	80°39'59.861"W	84.96	252.605	0.14	-0.13	1.10
5005.00	1.630	307.910	5002.90	38.36	-23.60	-83.55	1641246.71	515643.06	39°54'35.511"N	80°39'59.893"W	86.85	254.173	0.45	-0.40	6.18
5099.00	1.420	310.380	5096.87	40.83	-22.11	-85.50	1641244.79	515644.66	39°54'35.522"N	80°39'59.918"W	88.31	255.501	0.23	-0.22	2.63
5194.00	1.060	294.370	5191.85	42.80	-20.98	-87.19	1641243.11	515645.81	39°54'35.522"N	80°39'59.940"W	89.68	256.468	0.52	-0.38	-16.85
5268.00	0.900	177.450	5265.84	42.98	-21.28	-87.79	1641242.50	515645.52	39°54'35.520"N	80°39'59.947"W	90.33	256.373	2.26	-0.22	-158.00
5320.00	1.730	146.730	5317.83	41.89	-22.35	-87.34	1641242.94	515644.45	39°54'35.509"N	80°39'59.941"W	90.16	255.648	2.04	1.60	-59.08
5415.00	2.160	135.410	5412.77	38.69	-24.82	-85.30	1641244.95	515641.95	39°54'35.485"N	80°39'59.915"W	88.84	253.776	0.60	0.45	-11.92
5509.00	2.160	130.230	5506.71	35.16	-27.23	-82.70	1641247.51	515639.51	39°54'35.461"N	80°39'59.882"W	87.07	251.778	0.21	0.00	-5.51



Actual Wellpath Report

Curry 8H AWP Proj: 11720'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #08
Area	Marshall County, WV	Well	Curry 8H Pilot
Field	Marshall County	Wellbore	Curry 8H AWP
Facility	Curry Pad		

WELLPATH DATA (125 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TYD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
5604.00	3.370	125.110	5601.59	30.66	-29.99	-79.05	1641251.13	515636.70	39°54'35.433"N	80°39'59.835"W	84.55	249.225	1.30	1.27	-5.39
5699.00	3.450	120.900	5696.43	25.21	-33.06	-74.31	1641255.83	515633.57	39°54'35.403"N	80°39'59.774"W	81.34	246.016	0.28	0.08	-4.43
5794.00	3.180	112.460	5791.27	20.10	-35.54	-69.43	1641260.68	515631.03	39°54'35.379"N	80°39'59.712"W	77.99	242.893	0.59	-0.28	-8.88
5888.00	2.710	104.040	5885.14	15.90	-37.07	-64.86	1641265.23	515629.43	39°54'35.363"N	80°39'59.653"W	74.71	240.249	0.68	-0.50	-8.96
5983.00	2.520	101.690	5980.04	12.35	-38.04	-60.64	1641269.44	515628.41	39°54'35.354"N	80°39'59.599"W	71.58	237.898	0.23	-0.20	-2.47
6078.00	2.120	87.270	6074.97	9.56	-38.38	-56.84	1641273.23	515628.02	39°54'35.351"N	80°39'59.550"W	68.58	235.970	0.74	-0.42	-15.18
6172.00	1.880	85.660	6168.91	7.51	-38.18	-53.56	1641276.51	515628.18	39°54'35.353"N	80°39'59.508"W	65.78	234.518	0.26	-0.26	-1.71
6267.00	1.680	78.560	6263.86	5.85	-37.79	-50.64	1641279.43	515628.54	39°54'35.356"N	80°39'59.470"W	63.19	233.273	0.31	-0.21	-7.47
6362.00	1.520	80.600	6358.83	4.46	-37.30	-48.04	1641282.05	515628.98	39°54'35.361"N	80°39'59.437"W	60.82	232.167	0.18	-0.17	2.15
6455.00	1.270	80.610	6451.80	3.24	-36.93	-45.80	1641284.28	515629.32	39°54'35.365"N	80°39'59.408"W	58.84	231.118	0.27	-0.27	0.01
6550.00	1.110	75.120	6546.78	2.25	-36.53	-43.87	1641286.22	515629.71	39°54'35.369"N	80°39'59.384"W	57.09	230.222	0.21	-0.17	-5.78
6643.00	1.120	65.200	6639.76	1.57	-35.91	-42.18	1641287.92	515630.30	39°54'35.375"N	80°39'59.362"W	55.40	229.586	0.21	0.01	-10.67
6738.00	1.180	71.480	6734.74	0.91	-35.21	-40.41	1641289.70	515630.98	39°54'35.382"N	80°39'59.339"W	53.60	228.929	0.15	0.06	6.61
6832.00	1.280	84.070	6828.72	-0.10	-34.80	-38.45	1641291.67	515631.37	39°54'35.386"N	80°39'59.314"W	51.86	227.852	0.31	0.11	13.39
6927.00	1.230	92.010	6923.70	-1.43	-34.72	-36.37	1641293.74	515631.41	39°54'35.387"N	80°39'59.287"W	50.29	226.328	0.19	-0.05	8.36
7022.00	1.160	89.990	7018.68	-2.79	-34.76	-34.39	1641295.72	515631.35	39°54'35.386"N	80°39'59.262"W	48.90	224.695	0.09	-0.07	-2.13
7116.00	1.610	93.160	7112.65	-4.36	-34.83	-32.12	1641297.99	515631.25	39°54'35.386"N	80°39'59.233"W	47.38	222.681	0.49	0.48	3.37
7211.00	1.800	91.160	7207.61	-6.33	-34.94	-29.30	1641300.81	515631.11	39°54'35.385"N	80°39'59.197"W	45.59	219.983	0.21	0.20	-2.11
7305.00	1.860	87.390	7301.56	-8.31	-34.90	-26.30	1641303.81	515631.11	39°54'35.385"N	80°39'59.158"W	43.70	217.001	0.14	0.06	-4.01
7400.00	1.240	116.790	7396.53	-10.24	-35.29	-23.84	1641306.27	515630.68	39°54'35.381"N	80°39'59.127"W	42.59	214.040	1.04	-0.65	30.95
7494.00	1.270	124.480	7490.50	-12.21	-36.34	-22.07	1641308.02	515629.61	39°54'35.371"N	80°39'59.104"W	42.52	211.276	0.18	0.03	8.18
7589.00	1.850	133.640	7585.47	-14.76	-37.99	-20.10	1641309.97	515627.93	39°54'35.354"N	80°39'59.078"W	42.98	207.876	0.66	0.61	9.64
7683.00	1.540	126.490	7679.43	-17.51	-39.79	-17.98	1641312.06	515626.11	39°54'35.337"N	80°39'59.051"W	43.67	204.319	0.40	-0.33	-7.61
7778.00	1.540	155.630	7774.39	-19.98	-41.71	-16.43	1641313.59	515624.17	39°54'35.318"N	80°39'59.031"W	44.83	201.497	0.82	0.00	30.67
7873.00	1.790	154.340	7869.35	-22.62	-44.21	-15.26	1641314.73	515621.65	39°54'35.293"N	80°39'59.016"W	46.77	199.041	0.27	0.26	-1.36
7968.00	1.780	160.280	7964.31	-25.41	-46.94	-14.12	1641315.83	515618.91	39°54'35.266"N	80°39'59.002"W	49.02	196.741	0.19	-0.01	6.25
8062.00	1.600	178.720	8058.27	-27.75	-49.63	-13.60	1641316.32	515616.22	39°54'35.239"N	80°39'58.995"W	51.45	195.323	0.61	-0.19	19.62
8156.00	1.890	195.270	8152.22	-29.58	-52.43	-13.98	1641315.91	515613.42	39°54'35.212"N	80°39'59.000"W	54.26	194.925	0.62	0.31	17.61
8251.00	2.080	200.860	8247.17	-31.21	-55.56	-15.00	1641314.84	515610.31	39°54'35.181"N	80°39'59.013"W	57.55	195.112	0.29	0.20	5.88
8346.00	1.940	208.550	8342.11	-32.53	-58.58	-16.39	1641313.42	515607.30	39°54'35.151"N	80°39'59.031"W	60.83	195.627	0.32	-0.15	8.09



Actual Wellpath Report

Curry 8H AWP Proj: 11720'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #08
Area	Marshall County, WV	Well	Curry 8H Pilot
Field	Marshall County	Wellbore	Curry 8H AWP
Facility	Curry Pad		

WELLPATH DATA (125 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TYD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
8441.00	2.110	213.100	8437.05	-33.52	-61.46	-18.11	1641311.66	515604.45	39°54'35.123"N	80°39'59.053"W	64.07	196.418	0.25	0.18	4.79
8535.00	2.120	223.620	8530.99	-34.09	-64.16	-20.25	1641309.48	515601.77	39°54'35.096"N	80°39'59.080"W	67.28	197.518	0.41	0.01	11.19
8630.00	2.430	227.390	8625.91	-34.24	-66.80	-22.95	1641306.75	515599.17	39°54'35.070"N	80°39'59.115"W	70.63	198.959	0.36	0.33	3.97
8726.00	2.600	227.040	8721.82	-34.30	-69.66	-26.04	1641303.62	515596.35	39°54'35.041"N	80°39'59.155"W	74.37	200.495	0.18	0.18	-0.36
8945.00	1.160	264.800	8940.70	-33.05	-73.25	-31.88	1641297.73	515592.84	39°54'35.006"N	80°39'59.230"W	79.89	203.522	0.83	-0.66	17.24
9015.00	0.770	297.160	9010.69	-32.19	-73.10	-33.01	1641296.61	515593.00	39°54'35.007"N	80°39'59.244"W	80.20	204.301	0.94	-0.56	46.23
9109.00	0.830	304.840	9104.68	-30.93	-72.42	-34.13	1641295.50	515593.69	39°54'35.014"N	80°39'59.259"W	80.06	205.232	0.13	0.06	8.17
9204.00	0.890	303.510	9199.67	-29.55	-71.62	-35.31	1641294.33	515594.51	39°54'35.022"N	80°39'59.274"W	79.85	206.242	0.07	0.06	-1.40
9299.00	0.910	301.600	9294.66	-28.11	-70.82	-36.56	1641293.08	515595.33	39°54'35.030"N	80°39'59.290"W	79.70	207.308	0.04	0.02	-2.01
9392.00	1.070	296.530	9387.65	-26.59	-70.04	-37.97	1641291.69	515596.12	39°54'35.038"N	80°39'59.308"W	79.67	208.463	0.20	0.17	-5.45
9487.00	1.060	295.370	9482.63	-24.95	-69.27	-39.56	1641290.11	515596.91	39°54'35.045"N	80°39'59.328"W	79.77	209.730	0.03	-0.01	-1.22
9582.00	0.760	292.990	9577.62	-23.57	-68.65	-40.93	1641288.74	515597.55	39°54'35.051"N	80°39'59.346"W	79.92	210.806	0.32	-0.32	-2.51
9676.00	0.650	293.580	9671.61	-22.52	-68.19	-41.99	1641287.69	515598.02	39°54'35.056"N	80°39'59.360"W	80.08	211.627	0.12	-0.12	0.63
9771.00	0.640	293.210	9766.61	-21.55	-67.77	-42.98	1641286.71	515598.46	39°54'35.060"N	80°39'59.372"W	80.24	212.382	0.01	-0.01	-0.39
9866.00	0.470	285.600	9861.60	-20.74	-67.45	-43.84	1641285.85	515598.79	39°54'35.063"N	80°39'59.383"W	80.45	213.021	0.19	-0.18	-8.01
9961.00	0.380	281.430	9956.60	-20.16	-67.28	-44.52	1641285.17	515598.96	39°54'35.065"N	80°39'59.392"W	80.68	213.493	0.10	-0.09	-4.39
10055.00	0.440	281.850	10050.60	-19.61	-67.15	-45.18	1641284.51	515599.11	39°54'35.066"N	80°39'59.400"W	80.93	213.935	0.06	0.06	0.45
10150.00	0.500	281.660	10145.59	-18.98	-66.99	-45.94	1641283.75	515599.28	39°54'35.068"N	80°39'59.410"W	81.23	214.444	0.06	0.06	-0.20
10244.00	0.620	267.110	10239.59	-18.33	-66.93	-46.85	1641282.84	515599.34	39°54'35.068"N	80°39'59.422"W	81.70	214.993	0.20	0.13	-15.48
10339.00	0.760	277.810	10334.58	-17.53	-66.87	-47.99	1641281.71	515599.42	39°54'35.069"N	80°39'59.436"W	82.31	215.665	0.20	0.15	11.26
10433.00	0.980	284.450	10427.57	-16.39	-66.59	-49.37	1641280.33	515599.72	39°54'35.072"N	80°39'59.454"W	82.90	216.555	0.26	0.24	7.14
10527.00	1.090	287.550	10522.56	-14.94	-66.12	-51.02	1641278.69	515600.22	39°54'35.076"N	80°39'59.475"W	83.51	217.657	0.13	0.12	3.26
10621.00	1.250	287.870	10616.54	-13.28	-65.53	-52.85	1641276.87	515600.82	39°54'35.082"N	80°39'59.499"W	84.19	218.886	0.17	0.17	0.34
10716.00	1.200	290.960	10711.51	-11.49	-64.86	-54.76	1641274.96	515601.52	39°54'35.089"N	80°39'59.523"W	84.89	220.177	0.09	-0.05	3.25
10811.00	1.310	286.820	10806.49	-9.68	-64.19	-56.73	1641273.00	515602.32	39°54'35.096"N	80°39'59.549"W	85.67	221.473	0.15	0.15	-4.36
10906.00	1.260	290.920	10901.47	-7.82	-63.50	-58.75	1641270.99	515602.93	39°54'35.102"N	80°39'59.574"W	86.51	222.774	0.11	-0.05	4.32
11000.00	1.190	289.350	10995.45	-6.04	-62.81	-60.63	1641269.12	515603.65	39°54'35.109"N	80°39'59.599"W	87.30	223.992	0.08	-0.07	-1.67
11095.00	1.320	293.690	11090.42	-4.18	-62.04	-62.57	1641267.20	515604.44	39°54'35.117"N	80°39'59.624"W	88.11	225.242	0.17	0.14	4.57
11190.00	1.420	305.230	11185.40	-2.03	-60.92	-64.53	1641265.25	515605.58	39°54'35.128"N	80°39'59.649"W	88.75	226.648	0.31	0.11	12.15
11284.00	1.460	308.640	11279.37	0.29	-59.50	-66.42	1641263.38	515607.03	39°54'35.142"N	80°39'59.673"W	89.17	228.143	0.10	0.04	3.63



Actual Wellpath Report

Curry 8H AWP Proj: 11720'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #08
Area	Marshall County, WV	Well	Curry 8H Pilot
Field	Marshall County	Wellbore	Curry 8H AWP
Facility	Curry Pad		

WELLPATH DATA (125 stations)

MID [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Built Rate [°/100ft]	Turn Rate [°/100ft]
11379.00	1.420	309.120	11374.34	2.64	-58.00	-68.28	1641261.54	515608.55	39°54'35.157"N	80°39'59.697"W	89.59	229.650	0.04	-0.04	0.51
11473.00	1.370	309.660	11468.31	4.91	-56.55	-70.05	1641259.79	515610.02	39°54'35.171"N	80°39'59.719"W	90.03	231.084	0.05	-0.05	0.57
11567.00	1.490	305.490	11562.28	7.21	-55.13	-71.91	1641257.95	515611.47	39°54'35.185"N	80°39'59.743"W	90.60	232.525	0.17	0.13	-4.44
11648.00	1.610	299.290	11643.25	9.32	-53.96	-73.76	1641256.11	515612.67	39°54'35.197"N	80°39'59.767"W	91.39	233.812	0.25	0.15	-7.65
11720.00	1.610	299.290	11715.22	11.23	-52.97	-75.52	1641254.36	515613.68	39°54'35.206"N	80°39'59.790"W	92.24	234.955	0.00	0.00	0.00

HOLE & CASING SECTIONS - RefWellbore: Curry 8H AWP Proj: 11720'

String/Diameter	Start MID [ft]	End MID [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
30in Conductor	32.00	112.00	80.00	32.00	112.00	0.00	0.00	-0.06	0.03
20in Casing Surface	32.00	907.00	875.00	32.00	907.00	0.00	0.00	0.66	-1.00

TARGETS

Name	MID [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Curry Pad Revised Buffer		6900.00	-17.65	20.33	1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W	polygon
Curry Pad Revised LL		7000.00	-17.65	20.33	1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: Curry 8H AWP Ref Wellpath: Curry 8H AWP Proj: 11720'

Start MID [ft]	End MID [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.00	2142.00	Generic gyro - northseeking (Standard)	03 Gyrodota MS Gyro <17-1/2"> (100-2110')	Curry 8H AWP
2142.00	8726.00	Navitrak (MagCorr)	04 BHI MWD <12-1/4"> (2142)(2261-8726) Proj:8945'	Curry 8H AWP
8726.00	11648.00	Navitrak (MagCorr)	05 BHI MWD <8-1/2"> (8726)(8945-11648)	Curry 8H AWP
11648.00	11720.00	Blind Drilling (std)	Projection to bit	Curry 8H AWP

Well is located on topo map 2,251 feet south of Latitude: 39° 55' 00"

AS DRILLED PLAT

Well is located on topo map 11,472 feet west of Longitude: 80° 37' 30"

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4419236.64
 E:527119.82
 NAD83, WV NORTH
 N:520413.674
 E:1636818.522

AS DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4419235.16
 E:527117.90
 NAD83, WV NORTH
 N:520408.930
 E:1636812.140

PERMITTED APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4417890.31
 E:528343.01
 NAD83, WV NORTH
 N:515928.576
 E:1640758.556

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

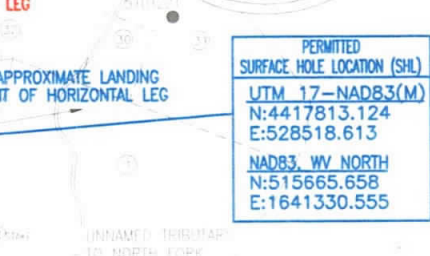
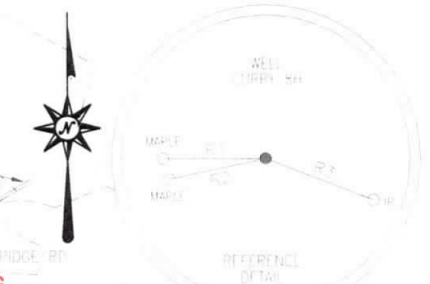
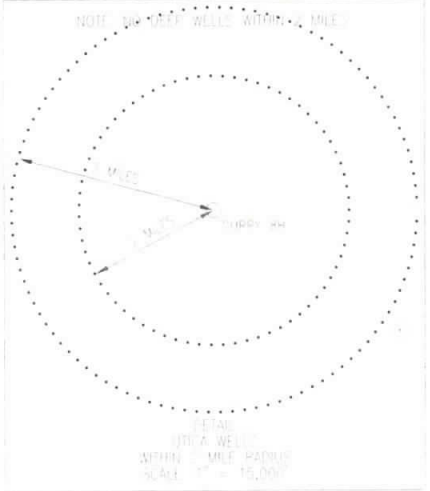
LEGEND	
	- TOPO MAP POINT
	- WELL
	- ALL ARE POINTS UNLESS OTHERWISE NOTED.
	- MINERAL TRACT BOUNDARY
	- PARCEL LINES
	- WELL REFERENCE
	- AS-DRILLED LATERAL
	- PROPOSED HORIZONTAL WELL
	- ROAD
	- STREAM CENTER LINE
	- LESSORS
	- SURFACE OWNERS
GAS WELLS	
	- EXISTING WELLS
	- PLUGGED WELLS

- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 3. There are no native trout streams within 300' of proposed well.
 4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

AS DRILLED APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4417890.42
 E:528345.45
 NAD83, WV NORTH
 N:515928.610
 E:1640766.550

AS DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4417813.124
 E:528518.613
 NAD83, WV NORTH
 N:515665.658
 E:1641330.555

PERMITTED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4417813.124
 E:528518.613
 NAD83, WV NORTH
 N:515665.658
 E:1641330.555



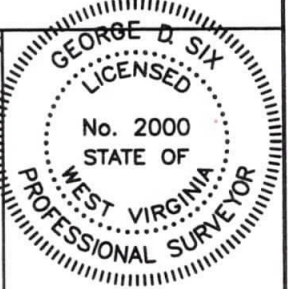
LINE	BEARING	DISTANCE
P1	N 89° 51' 29" W	213.80
P2	S 77° 50' 14" W	205.19
P3	S 62° 41' 14" W	240.77
P4	S 67° 02' 29" W	203.66
P5	S 38° 51' 25" E	240.84
P6	S 58° 25' 50" E	173.49

Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: CURRY 8H - AS-DRILLED
 DRAWING #: CURRY 8H - AS-DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 25, 2016
 OPERATOR'S WELL #: CURRY 8H - AS-DRILLED
 API WELL #: 47 51 01784
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1317.13'

COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: JAMES E. CURRY ACREAGE: 45.01±

OIL & GAS ROYALTY OWNER: JAMES E. CURRY ACREAGE: 141.540±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,458'± TMD: 17,787'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

UNIT CONSOLIDATION MAP

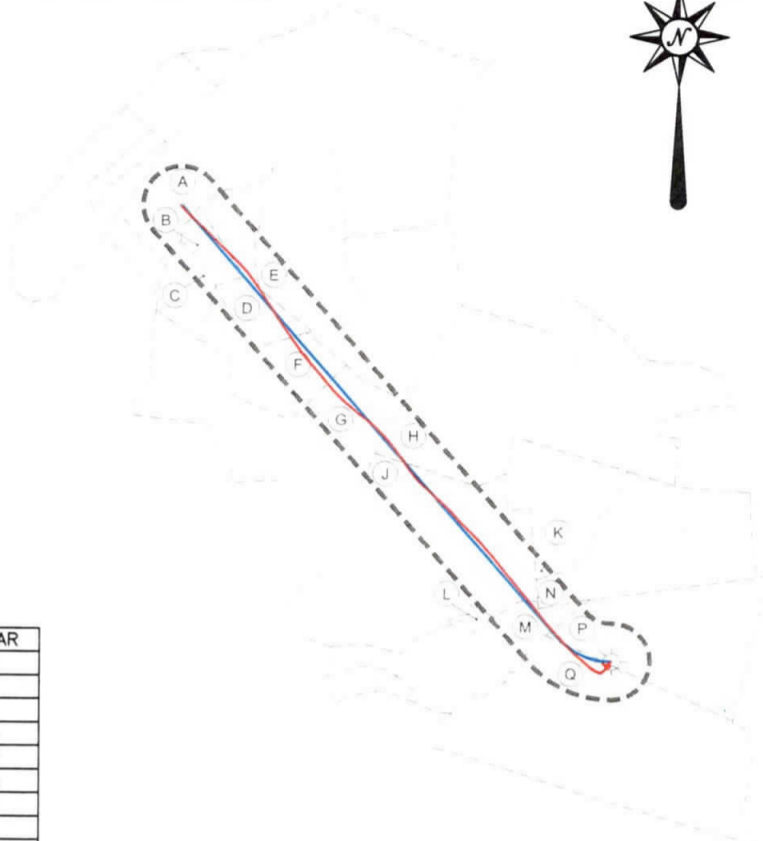
CURRY 8H UNIT

PAGE 2 OF 2



PERMITTED SURFACE HOLE LOCATION (SHL)	PERMITTED APPROX. LANDING POINT	PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4417813.124 E:528518.613	UTM 17-NAD83(M) N:4417890.31 E:528343.01	UTM 17-NAD83(M) N:4419236.64 E:527119.82
NAD83, WV NORTH N:515665.658 E:1641330.555	NAD83, WV NORTH N:515928.576 E:1640758.556	NAD83, WV NORTH N:520413.674 E:1636818.522

AS DRILLED SURFACE HOLE LOCATION (SHL)	AS DRILLED APPROX. LANDING POINT	AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4417813.124 E:528518.613	UTM 17-NAD83(M) N:4417890.42 E:528345.45	UTM 17-NAD83(M) N:4419235.16 E:527117.90
NAD83, WV NORTH N:515665.658 E:1641330.555	NAD83, WV NORTH N:515928.810 E:1640766.550	NAD83, WV NORTH N:520408.930 E:1636812.140



	SURFACE OWNER	DIST-TM/PAR
1	JOHN J. HART ET UX	14-10/18
2	RAYMOND EUGENE FRANKLIN ET UX	14-11/9
3	DAVID LAWRENCE WILSON ET UX	14-11/8
4	DEBRA J. & RICHARD L. WAYT JR.	14-11/8.5
5	DAVID E. FRANKLIN	14-11/8.7
6	PATRICIA SUE HOSKINS	14-11/8.6
7	GREGORY SCOTT MCDONALD ET UX	14-11/8.9
8	MARY V. JAKO ET AL	14-11/8.2
9	JASON W. & AMANDA K. JOHNSON	14-11/6.5
10	RONALD R. & NITA L. ADKINS	14-11/6.9
11	ILA F. MOORE ET AL	14-11/6
12	ROBERT H. BOWMAN JR.	14-11/8.1
13	JOHN J. & BELINDA R. BAKER	14-11/8.8
14	RICHARD W. HYETT ET UX	14-11/17
15	RICHARD W. HYETT ET UX	14-11/8.4
16	RICHARD W. HYETT ET UX	14-11/8.3
17	JOSEPH MICHAEL CROW ET UX	14-10/17
18	DAVID E. HILL ET UX	14-11/7
19	DAVID E. HILL ET UX	14-11/6.10
20	DENNIS C. FISHER ET UX	14-11/6.4
21	DENNIS CLYDE FISHER	14-11/18
22	VALLIE JAMES WEST	14-10/8.1
23	VALLIE JAMES WEST	14-10/8
24	RICHARD E. HITT	14-10/8.3
25	DAVID L. BLAKE	14-10/8.2
26	MICHAEL T. DAVIS	14-10/9
27	FREDA ELIZABETH BLAKE	14-10/9.1
28	JOSEPH MICHAEL CROW	14-10/16
29	JAMES E. CURRY	14-10/15
30	JOHN J. & RENEE A. HART	14-10/19
31	JOHN J. & RENEE A. HART	14-10/19.1
32	JOHN J. HART ET UX	14-10/14
33	JAMES E. CURRY	14-10/13
34	DENNIS BLAKE ET UX	14-10/12
35	DENNIS & MICHELLE S. BLAKE	14-10/11.3
36	JOHN J. II & JENNA E. HART	14-10/11
37	JAMES E. BLAKE	14-10/11.1
38	JOHN J. HART ET UX	14-6/36
39	CARL W. & BRIDGETT L. YOHO	14-6/35
40	DENNIS BLAKE ET UX	14-10/10
41	JOHN W. & MARY ALICE MILLER	14-10/4.6
42	JOHN W. & MARY ALICE MILLER	14-10/4.7
43	JOHN W. & MARY ALICE MILLER	14-10/3
44	MARY LOU RUBINI	14-6/41.1
45	JEFFREY L. & JANET L. ALLEN	14-6/37
46	JOHN W. & MARY ALICE MILLER	14-6/41
47	BRUCE M. STRAIGHT	14-10/4.3
48	JOHN W. & MARY ALICE MILLER	14-10/4.8
49	JOSEPH D. STRAIGHT	14-10/4
50	AARON ALLEN STRAIGHT	14-10/4.5
51	RANDALL E. & CHARLOTTE REXROAD	14-10/4.4
52	JOHN W. & MARY ALICE MILLER	14-9/24
53	DANNIE J. RUZA SR.	14-9/24.1
54	DANNIE J. RUZA SR.	14-10/1
55	DANNIE J. RUZA SR.	14-10/2
56	WILLIAM H. III & LINDA BARDALL	14-7/42
57	WHEELING POWER CO.	14-7/42.1

	LESSOR	DIST-TM/PAR	AC. IN UNIT
A	L. DEXTER & SANDRA L. COFFIELD	14-10/4.3	9.259
	SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST		
B	L. DEXTER & SANDRA L. COFFIELD	14-10/4	6.391
	SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST		
C	L. DEXTER & SANDRA L. COFFIELD	14-10/4.5	2.202
	SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST		
D	JOHN W. & MARY ALICE MILLER	14-10/4.8	14.227
	SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST		
E	JOHN W. & MARY ALICE MILLER	14-10/3	14.830
F	JOHN W. & MARY ALICE MILLER	14-10/4.7	8.912
	SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST		
G	JOHN W. & MARY ALICE MILLER	14-10/4.6	13.127
	SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST		
H	DENNIS & MICHELLE S. BLAKE	14-10/10	7.823
J	MICHAEL T. & PENNY J. DAVIS	14-10/9	35.647
K	DENNIS & MICHELLE S. BLAKE	14-10/12	0.558
L	CURTIS & FREDA BLAKE	14-10/9.1	0.659
M	DAVID L. BLAKE	14-10/8.2	6.302
N	JAMES E. CURRY	14-10/13	2.414
P	JAMES E. CURRY	14-10/15	9.144
Q	JOSEPH M. & TAMARA L. CROW	14-10/17	10.045
TOTAL UNIT ACREAGE			141.540

LEGEND	
-----	- UNIT BOUNDARY
.....	- PARCEL LINES
○	- WELL

NOTE:
It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted. The location of the unit boundary lines, as shown, are based on a .pdf file/image referenced into the drawing, unless otherwise noted.

MARCH 25, 2016



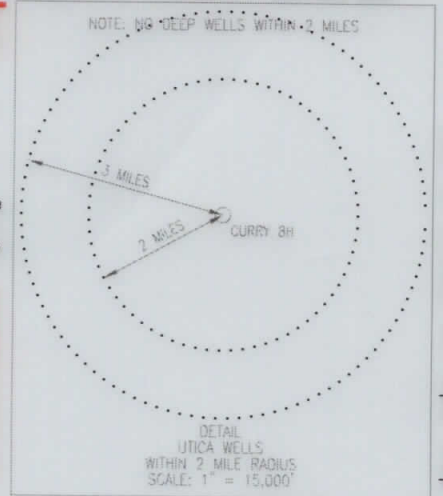
Well is located on topo map 2,251 feet south of Latitude: 39° 55' 00"

AS DRILLED PLAT

NOTES:

- There are no water wells or developed springs within 250' of proposed well.
- Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface groundwater intake or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

NOTE: NO DEEP WELLS WITHIN 2 MILES



Well is located on topo map 11,472 feet west of Longitude: 80° 37' 30"

PERMITTED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4419236.64
 E:527119.82
 NAD83, WV NORTH
 N:520413.674
 E:1636818.522

AS DRILLED BOTTOM HOLE LOCATION (BHL)
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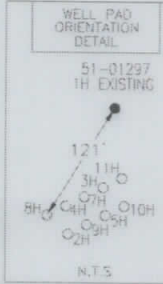
SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- AS-DRILLED LATERAL
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS

AS DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4417813.124
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 NAD83, WV NORTH
 N:515665.658
 E:1641330.555

PERMITTED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4417813.124
 E:528518.613
 NAD83, WV NORTH
 N:515665.658
 E:1641330.555



LINE	BEARING	DISTANCE
R1	N 86°57'29" W	213.82'
R2	S 77°52'14" W	205.19'
R3	S 68°41'47" E	240.67'
R4	S 63°22'29" W	2036.88'
R5	S 38°31'25" E	2402.86'
R6	S 58°25'50" E	1739.41'

Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: CURRY 8H - AS-DRILLED
 DRAWING #: CURRY 8H - AS-DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
 R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX
 LICENSED
 No. 2000
 STATE OF
 WEST VIRGINIA
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 25, 2016
 OPERATOR'S WELL #: CURRY 8H - AS-DRILLED
 API WELL #: 47 51 01784
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1317.13'
 COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'
 SURFACE OWNER: JAMES E. CURRY ACREAGE: 45.01±
 OIL & GAS ROYALTY OWNER: JAMES E. CURRY ACREAGE: 141.540±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,458'± TMD: 17,787'±
 WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

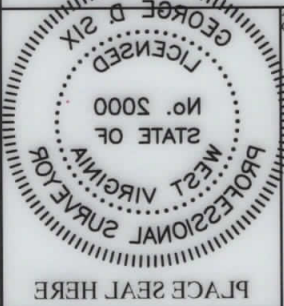
City SMITHFIELD State PA Zip Code 15478
 WELL OPERATOR CHEVRON APPALACHIA, LLC
 Address 800 MOUNTAIN VIEW DRIVE
 500 LEE STREET, EAST SUITE 1600
 DESIGNATED AGENT KENNETH E. TAWNEY
 TMD: 17,787± ESTIMATED DEPTH: TWD: 11,458±

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

OIL & GAS ROYALTY OWNER: JAMES E. CURRY ACREAGE: 141.540±
 SURFACE OWNER: JAMES E. CURRY ACREAGE: 45.01±
 COUNTY/DISTRICT: MARSHALL \ WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 75'
 WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1317.13'
 Well Type: Oil Waste Disposal Gas Liquid Injection
 Storage Shallow Deep

WELL OPERATOR'S WELL #: CURRY 8H - A2-DRILLED
 API WELL #: 47 STATE COUNTY PERMIT 01784
 SURFACE OWNER: JAMES E. CURRY
 OPERATOR'S WELL #: CURRY 8H - A2-DRILLED
 DATE: MARCH 25, 2016

FILE #: CURRY 8H - A2-DRILLED
 DRAWING #: CURRY 8H - A2-DRILLED
 SCALE: 1" = 200'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.1'
 OF ELEVATION: THOMAS 1498.1'
 R.P.E.: L.I.S.: P.S. No. 2000
 Signed: *[Signature]*
 THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS



Blue Mountain Inc.
 1025 MASON DIXON HIGHWAY
 BURTON, WV 26622
 PHONE: (304) 662-6486

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- AS-DRILLED LATERAL
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

PERMITTED APPROX. LANDING POINT

UTM 17-NAD83(M)
 E:528343.01
 N:441780.31
 NAD83 WV NORTH
 E:1640758.556
 N:515282.576

PERMITTED APPROX. LANDING POINT

UTM 17-NAD83(M)
 E:527117.90
 N:4419232.18
 NAD83 WV NORTH
 E:1636812.140
 N:520408.930

PERMITTED BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
 E:527119.82
 N:4419236.84
 NAD83 WV NORTH
 E:1636818.222
 N:520413.674

AS DRILLED PLAT

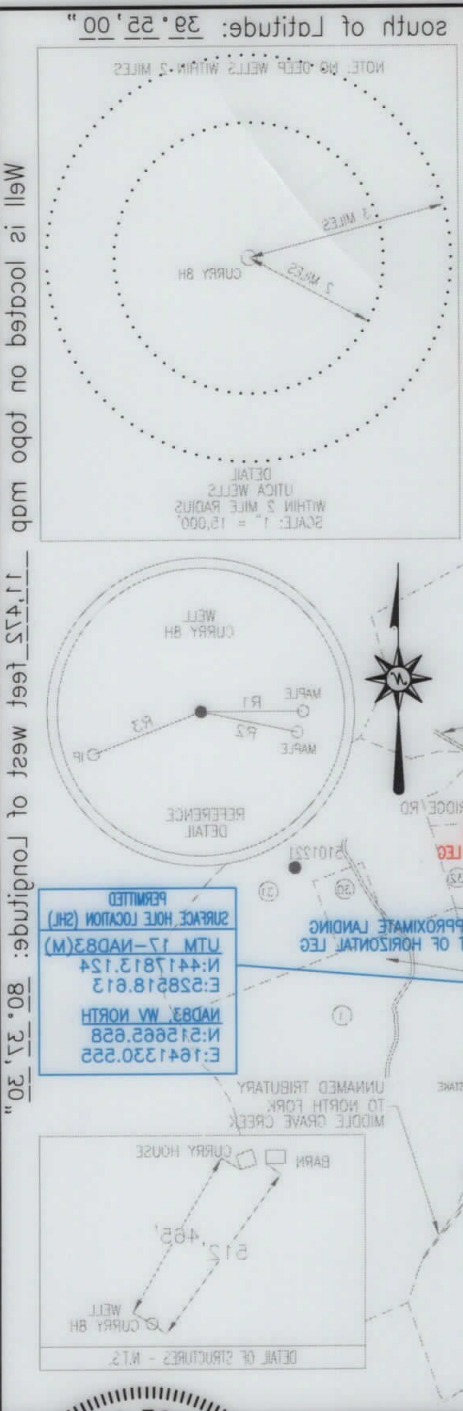
OTHERWISE NOTED
 BASED ON RECORD DEED DESCRIPTIONS, FIELD EVIDENCE FOUND AND/OR TAX MAP POSITION, UNLESS OTHERWISE NOTED.
 THE LOCATION OF THE BOUNDARY LINES, AS SHOWN, ARE OR MINERAL INTERESTS DEBATED HEREON. THE LOCATION OF THE BOUNDARY LINES, AS SHOWN, ARE OR MINERAL INTERESTS DEBATED HEREON.
 IF IS NOT THE PURPOSE OR INTENTION OF THIS PLAT TO REPRESENT SURVEYED LOCATIONS OF THE SURFACE SUPPLY.
 PROPOSED WELL IS GREATER THAN 1000' FROM SURFACE GROUNDWATER INTAKE OF PUBLIC WATER SUPPLY.
 THERE ARE NO KNOWN TRIBUTARY STREAMS WITHIN 300' OF PROPOSED WELL.
 THERE ARE NO KNOWN TRIBUTARY STREAMS WITHIN 100' FROM PERENNIAL STREAMS, WELLS, POND, RESERVOIR OR LAKE.
 PROPOSED WELL IS GREATER THAN 100' FROM PERENNIAL STREAMS, WELLS, POND, RESERVOIR OR LAKE.

AS DRILLED APPROX. LANDING POINT

UTM 17-NAD83(M)
 E:528345.42
 N:441780.42
 NAD83 WV NORTH
 E:1640766.250
 N:515282.810

NOTES

1. THERE ARE NO KNOWN TRIBUTARY STREAMS WITHIN 300' OF PROPOSED WELL.
2. THERE ARE NO KNOWN TRIBUTARY STREAMS WITHIN 100' FROM PERENNIAL STREAMS, WELLS, POND, RESERVOIR OR LAKE.
3. PROPOSED WELL IS GREATER THAN 1000' FROM SURFACE GROUNDWATER INTAKE OF PUBLIC WATER SUPPLY.
4. IF IS NOT THE PURPOSE OR INTENTION OF THIS PLAT TO REPRESENT SURVEYED LOCATIONS OF THE SURFACE SUPPLY.



LINE	BEARING	DISTANCE
R1	N 88°27.29' W	213.82'
R2	S 77°52.14' W	208.19'
R3	S 88°41.47' E	240.87'
R4	S 83°22.29' W	203.68'
R5	S 38°31.28' E	240.86'
R6	S 88°28.50' E	1739.41'

UNIT CONSOLIDATION MAP

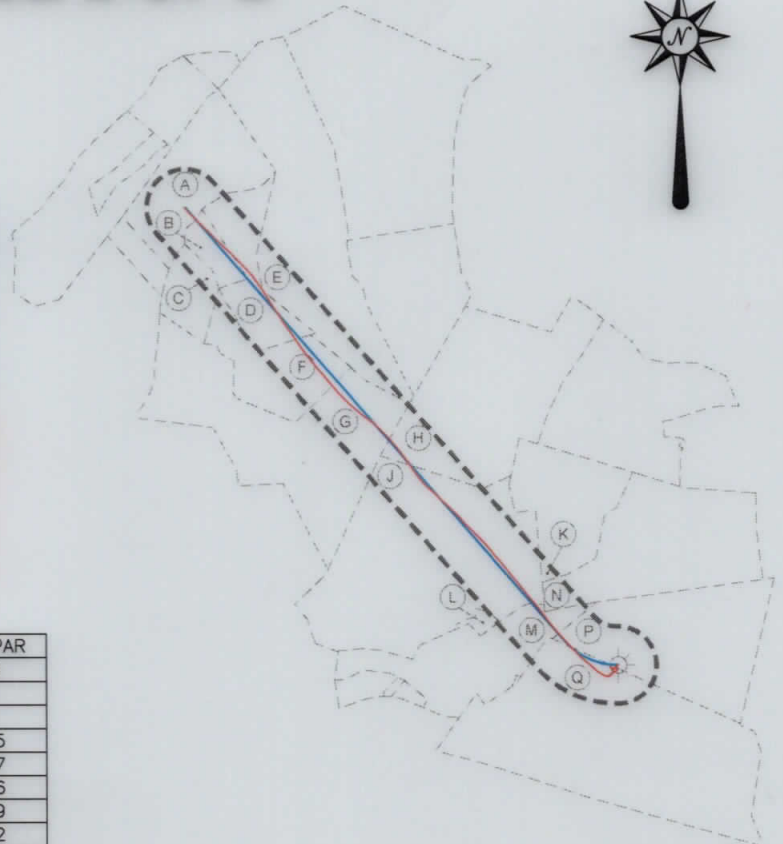
CURRY 8H UNIT

PAGE 2 OF 2



PERMITTED SURFACE HOLE LOCATION (SHL)	PERMITTED APPROX. LANDING POINT	PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4417813.124 E:528518.613	UTM 17-NAD83(M) N:4417890.31 E:528343.01	UTM 17-NAD83(M) N:4419236.64 E:527119.82
NAD83_WV NORTH N:515665.658 E:1641330.555	NAD83_WV NORTH N:515928.576 E:1640758.556	NAD83_WV NORTH N:520413.674 E:1636818.522

AS DRILLED SURFACE HOLE LOCATION (SHL)	AS DRILLED APPROX. LANDING POINT	AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4417813.124 E:528518.613	UTM 17-NAD83(M) N:4417890.42 E:528345.45	UTM 17-NAD83(M) N:4419235.16 E:527117.90
NAD83_WV NORTH N:515665.658 E:1641330.555	NAD83_WV NORTH N:515928.810 E:1640766.550	NAD83_WV NORTH N:520408.930 E:1636812.140



	SURFACE OWNER	DIST-TM/PAR
1	JOHN J. HART ET UX	14-10/18
2	RAYMOND EUGENE FRANKLIN ET UX	14-11/9
3	DAVID LAWRENCE WILSON ET UX	14-11/8
4	DEBRA J. & RICHARD L. WAYT JR.	14-11/8.5
5	DAVID E. FRANKLIN	14-11/8.7
6	PATRICIA SUE HOSKINS	14-11/8.6
7	GREGORY SCOTT MCDONALD ET UX	14-11/8.9
8	MARY V. JAKO ET AL	14-11/8.2
9	JASON W. & AMANDA K. JOHNSON	14-11/6.5
10	RONALD R. & NITA L. ADKINS	14-11/6.9
11	ILA F. MOORE ET AL	14-11/6
12	ROBERT H. BOWMAN JR.	14-11/8.1
13	JOHN J. & BELINDA R. BAKER	14-11/8.8
14	RICHARD W. HYETT ET UX	14-11/17
15	RICHARD W. HYETT ET UX	14-11/8.4
16	RICHARD W. HYETT ET UX	14-11/8.3
17	JOSEPH MICHAEL CROW ET UX	14-10/17
18	DAVID E. HILL ET UX	14-11/7
19	DAVID E. HILL ET UX	14-11/6.10
20	DENNIS C. FISHER ET UX	14-11/6.4
21	DENNIS CLYDE FISHER	14-11/18
22	VALLIE JAMES WEST	14-10/8.1
23	VALLIE JAMES WEST	14-10/8
24	RICHARD E. HITT	14-10/8.3
25	DAVID L. BLAKE	14-10/8.2
26	MICHAEL T. DAVIS	14-10/9
27	FREDA ELIZABETH BLAKE	14-10/9.1
28	JOSEPH MICHAEL CROW	14-10/16
29	JAMES E. CURRY	14-10/15
30	JOHN J. & RENEE A. HART	14-10/19
31	JOHN J. & RENEE A. HART	14-10/19.1
32	JOHN J. HART ET UX	14-10/14
33	JAMES E. CURRY	14-10/13
34	DENNIS BLAKE ET UX	14-10/12
35	DENNIS & MICHELLE S. BLAKE	14-10/11.3
36	JOHN J. II & JENNA E. HART	14-10/11
37	JAMES E. BLAKE	14-10/11.1
38	JOHN J. HART ET UX	14-6/36
39	CARL W. & BRIDGETT L. YOHO	14-6/35
40	DENNIS BLAKE ET UX	14-10/10
41	JOHN W. & MARY ALICE MILLER	14-10/4.6
42	JOHN W. & MARY ALICE MILLER	14-10/4.7
43	JOHN W. & MARY ALICE MILLER	14-10/3
44	MARY LOU RUBINI	14-6/41.1
45	JEFFREY L. & JANET L. ALLEN	14-6/37
46	JOHN W. & MARY ALICE MILLER	14-6/41
47	BRUCE M. STRAIGHT	14-10/4.3
48	JOHN W. & MARY ALICE MILLER	14-10/4.8
49	JOSEPH D. STRAIGHT	14-10/4
50	AARON ALLEN STRAIGHT	14-10/4.5
51	RANDALL E. & CHARLOTTE REXROAD	14-10/4.4
52	JOHN W. & MARY ALICE MILLER	14-9/24
53	DANNIE J. RUZA SR.	14-9/24.1
54	DANNIE J. RUZA SR.	14-10/1
55	DANNIE J. RUZA SR.	14-10/2
56	WILLIAM H. III & LINDA BARDALL	14-7/42
57	WHEELING POWER CO.	14-7/42.1

	LESSOR	DIST-TM/PAR	AC. IN UNIT
A	L. DEXTER & SANDRA L. COFFIELD SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST	14-10/4.3	9.259
B	L. DEXTER & SANDRA L. COFFIELD SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST	14-10/4	6.391
C	L. DEXTER & SANDRA L. COFFIELD SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST	14-10/4.5	2.202
D	JOHN W. & MARY ALICE MILLER SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST	14-10/4.8	14.227
E	JOHN W. & MARY ALICE MILLER	14-10/3	14.830
F	JOHN W. & MARY ALICE MILLER SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST	14-10/4.7	8.912
G	JOHN W. & MARY ALICE MILLER SHERI L. EVRAETS, TRUSTEE OF THE SHERI L. EVRAETS FAMILY TRUST	14-10/4.6	13.127
H	DENNIS & MICHELLE S. BLAKE	14-10/10	7.823
J	MICHAEL T. & PENNY J. DAVIS	14-10/9	35.647
K	DENNIS & MICHELLE S. BLAKE	14-10/12	0.558
L	CURTIS & FREDA BLAKE	14-10/9.1	0.659
M	DAVID L. BLAKE	14-10/8.2	6.302
N	JAMES E. CURRY	14-10/13	2.414
P	JAMES E. CURRY	14-10/15	9.144
Q	JOSEPH M. & TAMARA L. CROW	14-10/17	10.045
TOTAL UNIT ACREAGE			141.540

LEGEND	
-----	- UNIT BOUNDARY
.....	- PARCEL LINES
☆	- WELL

NOTE:

It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted. The location of the unit boundary lines, as shown, are based on a .pdf file/image referenced into the drawing, unless otherwise noted.

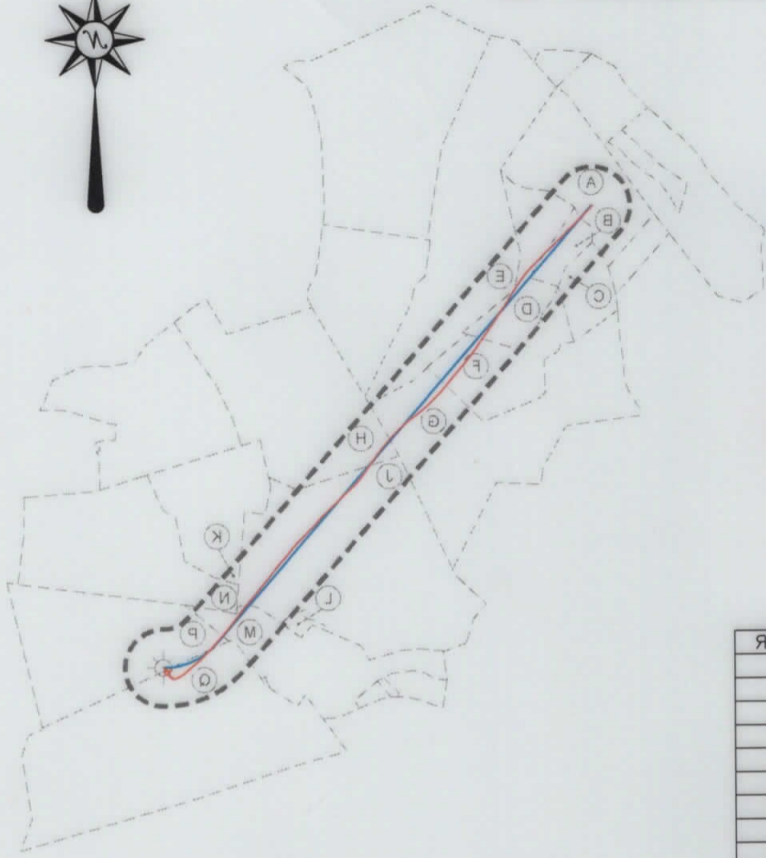
MARCH 25, 2016



UNIT CONSOLIDATION MAP

CURRY 8H UNIT

PAGE 2 OF 2



SURFACE HOLE LOCATION (SHL) UTM 17-NAD83(M) N:4417813.124 E:258218.613 NAD83 WV NORTH N:515665.658 E:1641320.555 PERMITTED	APPROX. LANDING POINT UTM 17-NAD83(M) N:4417890.31 E:258343.01 NAD83 WV NORTH N:515928.578 E:1640758.556 PERMITTED	BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83(M) N:4419236.64 E:257119.82 NAD83 WV NORTH N:520413.674 E:1636818.252 PERMITTED
SURFACE HOLE LOCATION (SHL) UTM 17-NAD83(M) N:4417813.124 E:258218.613 NAD83 WV NORTH N:515665.658 E:1641320.555 AS DRILLED	APPROX. LANDING POINT UTM 17-NAD83(M) N:4417890.42 E:258342.42 NAD83 WV NORTH N:515928.810 E:1640766.550 AS DRILLED	BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83(M) N:4419236.16 E:257117.90 NAD83 WV NORTH N:520408.930 E:1636812.140 AS DRILLED

DIST-TM\PAR.AC. IN UNIT	LESSOR	SURFACE OWNER
14-10\18		1 SURFACE OWNER
14-11\9		1 JOHN J. HART ET UX
14-11\8		2 RAYMOND EUGENE FRANKLIN ET UX
14-11\8.5		3 DAVID LAWRENCE WILSON ET UX
14-11\8.7		4 DEBRA J. & RICHARD L. WAYT JR.
14-11\8.6		5 DAVID E. FRANKLIN
14-11\8.9		6 PATRICIA SUE HOSKINS
14-11\8.2		7 GREGORY SCOTT McDONALD ET UX
14-11\8.2		8 MARY V. JAKO ET AL
14-11\8.9		9 JASON W. & AMANDA K. JOHNSON
14-11\8.9		10 RONALD R. & NITA L. ADKINS
14-11\8		11 IIA F. MOORE ET AL
14-11\8.1		12 ROBERT H. BOWMAN JR.
14-11\8.8		13 JOHN J. & BELINDA R. BAKER
14-11\17		14 RICHARD W. HYETT ET UX
14-11\8.4		15 RICHARD W. HYETT ET UX
14-11\8.3		16 RICHARD W. HYETT ET UX
14-10\17		17 JOSEPH MICHAEL CROW ET UX
14-11\7		18 DAVID E. HILL ET UX
14-11\8.10		19 DAVID E. HILL ET UX
14-11\8.4		20 DENNIS C. FISHER ET UX
14-11\18		21 DENNIS CLYDE FISHER
14-10\8.1		22 VALLIE JAMES WEST
14-10\8		23 VALLIE JAMES WEST
14-10\8.3		24 RICHARD E. HITT
14-10\8.2		25 DAVID L. BLAKE
14-10\9		26 MICHAEL T. DAVIS
14-10\8.1		27 FREDA ELIZABETH BLAKE
14-10\16		28 JOSEPH MICHAEL CROW
14-10\12		29 JAMES E. CURRY
14-10\19		30 JOHN J. & RENEE A. HART
14-10\19.1		31 JOHN J. & RENEE A. HART
14-10\14		32 JOHN J. HART ET UX
14-10\13		33 JAMES E. CURRY
14-10\12		34 DENNIS BLAKE ET UX
14-10\11.3		35 DENNIS & MICHELLE S. BLAKE
14-10\11		36 JOHN J. II & JENNA E. HART
14-10\11.1		37 JAMES E. BLAKE
14-6\36		38 JOHN J. HART ET UX
14-6\35		39 CARL W. & BRIDGETT L. YOHO
14-10\10		40 DENNIS BLAKE ET UX
14-10\4.6		41 JOHN W. & MARY ALICE MILLER
14-10\4.7		42 JOHN W. & MARY ALICE MILLER
14-10\3		43 JOHN W. & MARY ALICE MILLER
14-6\4.1		44 MARY LOU RUBINI
14-6\37		45 JEFFREY L. & JANET L. ALLEN
14-6\41		46 JOHN W. & MARY ALICE MILLER
14-10\4.3		47 BRUCE M. STRAIGHT
14-10\4.8		48 JOHN W. & MARY ALICE MILLER
14-10\4		49 JOSEPH D. STRAIGHT
14-10\4.5		50 AARON ALLEN STRAIGHT
14-10\4.4		51 RANDALL E. & CHARLOTTE REKROAD
14-9\24		52 JOHN W. & MARY ALICE MILLER
14-9\24.1		53 DANNIE J. RUZA SR.
14-10\1		54 DANNIE J. RUZA SR.
14-10\2		55 DANNIE J. RUZA SR.
14-7\42		56 WILLIAM H. III & LINDA BARDALL
14-7\42.1		57 WHEELING POWER CO.

DIST-TM\PAR.AC. IN UNIT	LESSOR
14-10\4.3	A L. DEXTER & SANDRA L. COFFIELD
14-10\4	B SHERI L. EVERETS, TRUSTEE OF THE SHERI L. EVERETS FAMILY TRUST
14-10\4.5	C L. DEXTER & SANDRA L. COFFIELD
14-10\4.8	D JOHN W. & MARY ALICE MILLER
14-10\3	E JOHN W. & MARY ALICE MILLER
14-10\4.7	F JOHN W. & MARY ALICE MILLER
14-10\4.6	G JOHN W. & MARY ALICE MILLER
14-10\10	H DENNIS & MICHELLE S. BLAKE
14-10\9	I MICHAEL T. & PENNY J. DAVIS
14-10\12	K DENNIS & MICHELLE S. BLAKE
14-10\9.1	L CURTIS & FREDA BLAKE
14-10\8.2	M DAVID L. BLAKE
14-10\13	N JAMES E. CURRY
14-10\15	O JAMES E. CURRY
14-10\17	P JOSEPH M. & TAMARA L. CROW
14-10\17	Q JOSEPH M. & TAMARA L. CROW
14-10\4.3	9.259
14-10\4	6.361
14-10\4.5	2.202
14-10\4.8	14.227
14-10\3	14.830
14-10\4.7	8.912
14-10\4.6	12.127
14-10\10	7.823
14-10\9	25.647
14-10\12	0.258
14-10\9.1	0.629
14-10\8.2	6.302
14-10\13	2.414
14-10\15	9.144
14-10\17	10.042
14-10\17	141.240
TOTAL UNIT ACREAGE	

LEGEND	
---	UNIT BOUNDARY
---	PARCEL LINES
☼	WELL

MARCH 25, 2016



NOTE:
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