

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

January 14, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101786, issued to CHEVRON APPALACHIA, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: CURRY 10H

Farm Name: CURRY, JAMES E.

API Well Number: 47-5101786

Permit Type: Horizontal 6A Well

Date Issued: 01/14/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

Topographic map showing access road

Road Crossing Letter (if drilling under road)

WW-PN Application Notice by Publication

WW-6AC Notice Certifications and Waivers

WW-6A1 Lease Information

Certified Mail receipts for WW-6A

Mylar Plat (Signed and sealed) (Surface Owner matches WW-6A)

Public Notice (dated copy of advertisement or affidavit of publication)

Topographic Map with labeled surrounding water wells (not required)

WW-6A3 Notice of Entry for Plat Survey (if one was conducted)

WW-6A Notice of Application notarized w/ any attachments

will cloppe by

Received Date:10/6/2014		API:	5101786	/
Operator: CHEVRON APPALACHIA	, LLC	WELL: CUR	RRY 10H	
Pad Name: CURRY		End Comment	Period:	15/14
Pad Built: YesNo	_	Date Reviewed	1: 12-15	-14 INT.
CHEC	CKLIST FOR FIL	ING A PERM	пт	
	Horizontal	6A Well		
Please include these required elemen	nts in the Horizontal W	'ell 6A application	ns, in order liste	ed below. Do not use staples.
	First Well	Subsequent W	'ell	
10,150.	00	5,150.00		Check#: 25735920
Fees Paid				
Checklist / Cover letter	1/2-1 0100	Augo		
WW-6B Notice of Application	on VOIC PUCC	DOWN CURRENT	Field A	pproved
Cement Additives	1	11 11 11	i h	χ. γ.
Well Bore Schematic (not re	equired) dollar	t malch	43	
WW-9 Fluids/Cuttings Disp	osal and Reclamation	n Plan	Field A	pproved
Site Safety Plan	Orell onle	17	Field A	pproved
Water Management Plan	- () -	DWWN	Approval

API: 5101786

Certified Mail receipts for WW-6A3
WW-6A4 Notice of Intent to Drill (if no WW-6A3)
Certified Mail receipts for WW-6A4
WW-6A5 Notice of Planned Operation
Certified Mail receipts for WW-6A5
WW-6RW Well Location Restriction Waiver (if applicable)
WW-6RW Voluntary Statement of No Objection (if applicable)
Waiver for Surface Owner at Wellhead
Waiver for Surface Owner for Roads or other Disturbances
Waiver for Coal Owner, Operator or Lessee
Waiver for surface owner for Impoundment or Pit
Waiver for Surface Owner or Water Purveyor within 1500 feet of Center of Pad
Waiver for Natural gas Storage Field Operator
DOH Road Bonding Letter List / H Muslims Frac Additives List of Chemical Names & CAS#s
Site Construction, Reclamation, Erosion & Sediment Control Plans
MSDS Sheets
Reviewer outside checks:
Comments - Public, Surface Owner, Water Well Purveryor
Bond (\$250,000)
Operator is registered with the SOS
Workers Compensation / Unemployment Insurance account is OK
Professional Engineer/Company has COA
Check for mine data at proposed coordinates
Check for floodplain data at proposed coordinates

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

Horizontal 6A Well Permit App. Checklist:

API:

5101786

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: Chevron A	Appalachia, LLC	49449935	Marshall	Washington	Moundsville, WV 7.5'
ny manaparanan		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 1	0H	Well Pac	Name: Curry		
3) Farm Name/Surface Owner	Curry	Public Roa	d Access: Way	/man's Ridg	e Rd/County Rt 38
4) Elevation, current ground:	1317'	Elevation, proposed	post-constructi	on: 1317'	
5) Well Type (a) Gas	Oil _	Und	erground Stora	ge	
Other					
(b)If Gas Si	hallow 🔳	Deep			
H	orizontal =		M 8	118/14	
6) Existing Pad: Yes or No Y			_	·	
 Proposed Target Formation Marcellus, 6,504 GL, Thickness 			and Associated	Pressure(s)	:
8) Proposed Total Vertical De	pth: <u>7,9841</u>				ž.
9) Formation at Total Vertical	Depth: Marcellu	s			
10) Proposed Total Measured	Depth: 12,771	<i>p</i> 1			
11) Proposed Horizontal Leg	Length: <u>4,792</u>				
12) Approximate Fresh Water	Strata Depths:	573' GL			-
13) Method to Determine Free	sh Water Depths:	Local stream base/0	Curry 1H Pilot/offs	set operators	
14) Approximate Saltwater D					
15) Approximate Coal Seam	Depths: 825' GL				
16) Approximate Depth to Po	ssible Void (coal	mine, karst, other):	825' GL		
17) Does Proposed well locat directly overlying or adjacent			N	0 🗸	
(a) If Yes, provide Mine Inf	o: Name: Ale	exander Mine (aband	oned)		
		5'-833' GL			
	Seam: Pi	tsburgh No. 8 Coal S	eam		
Received	Owner: Re	eserve Coal Propertie	s Company		
Office of Oil & Gas					
JAN 06 2015					

WW-6B (9/13)

18)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	30"	New			40'	40'	CTS
Fresh Water	20"	New	J-55	94#	673'	673'	CTS
Coal	13-3/8"	New	J-55	54.5#	925'	925'	CTS
Intermediate	9-5/8"	New	N-80	40#	2,292'	2,292'	CTS
Production	5.5"	New	P-110	20#	12,744'	12,744'	CTS
Tubing							
Liners							

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TYPE	Size	Wellbore	Wall	Burst Pressure	Cement Type	Cement Yield
		<u>Diameter</u>	<u>Thickness</u>			(cu. ft./k)
Conductor	30"	36"				
Fresh Water	20"	26"	0.438"	2,100 psi	Class A	1.21
Coal	13-3/8"	17.5	0.380"	2,730 psi	Class A	1.04
Intermediate	9-5/8"	12.25	0.395	5,750 psi	Class A	1.29
Production	5.5"	8.5	0.361	12,640 psi	Class A	2.2
Tubing						
Liners						

PACKERS

Kind:		
Sizes:		
Depths Set:		DECEMEN

Office of Oil and Gas

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WV Department of Environment page 01/16/2015

19) Describe proposed well work, including the drilling and plugging back of	of any pilot hole:
Drill 26" hole to 673' then run and cement 20" casing to surface covering the fresh wand cement 13-3/8" casing to surface covering coal. Drill 12.25" hole to 2,292' ther casing. Drill 8 1/2" hole to KOP. Drill 8 1/2" curve and lateral to 12,744' MD and 6,52 and cement back to surface.	n run and cement to surface 9 5/8"
20) Describe fracturing/stimulating methods in detail, including anticipated	max pressure and max rate:
Chevron will utilize plug and perf method with 40 stages using 8,572 bbl of fluid and	315,000 lbm of sand per stage
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (act	res):
22) Area to be disturbed for well pad only, less access road (acres): 3.6 Ac	cres
23) Describe centralizer placement for each casing string:	
There will be a bow spring centralizer every jt on the Water string. There will be a b the Coal and Intermediate String. The production string will have a centralizer every every two jts from KOP to surface.	oow spring centralizer every 2 joints for jt in the lateral and curve, then one
24) Describe all cement additives associated with each cement type:	
The Water String blend will contain class A cement, 3% CaCl2, and flake. The Coal CaCl2, and flake. The intermediate will contain class A cement, 2% CaCl2, Salt, and a lead and tail cement. The lead will contain class A cement, KCl, dispersant, suspendiation class A cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension	d flake. The Production cement will have ension agent, and retarder. The tail will
25) Proposed borehole conditioning procedures:	
We will be circulated a minimum of 2 bottoms up once casing point has been reach mud properties are achieved.	
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*Note: Attach additional sheets as needed.	Environma

Scenario-1: Marcellus well drilled first as Pilot well:

- a. If a void is encountered, we will drill ahead to min 30' or max 50' below mine void and stop drilling.
 - Notify DEP Inspector and obtain permit/ approval to plug back hole. The plugback procedure will be as follows:
 - o Trip in hole with 2-7/8" tubing cement stinger to 20' above top of void.
 - o Mix and pump cement to fill rat hole below void. Trip out of hole and lay down tubing
 - o Trip in hole with Open Hole Packer and set at 20' above top of void. Test packer.
 - o Trip out of hole and lay down packer running tool
 - o TIH w/ 2-7/8" tubing to 5'+/- from top of packer
 - Mix and pump 15.6pgg cement on top of packer and fill hole to within 10' from surface.
 - o Trip out of hole and lay down tubing.
 - o Nipple down BOPE and related equipment
 - o Cut casing, lay wellhead and casing cut piece
 - o Weld on steel plate to cover casing
 - Rig down and skid rig to next well. Note: Cellar ring removal, cellar filling and installation of land mark will be done later

The rest wells original plan will be revised to incorporate a coal casing string as follows:

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b. Marcellus Wells Contingency Casing Plan:

Drill 26" hole to 700' (min 50' or max 150' beyond freshwater zone)

Office of Oil & Gas

Run 20" 94.5# J-55 BTC casing

Cement casing to surface using displacement method with 30% excess

JAN **06** 2015

- Drill 17-1/2" hole to 925' (min 30'or max 50 beyond mine void)
- Run 13-3/8" 54.5# J-55 BTC casing with cement basket 20' above mine void
- Cement casing using displacement method to bottom of mine void using 100% excess
- Grout from surface to cement basket using whatever volume of cement necessary to get cement to surface
- Drill 12-1/4" hole to 2,292' 100' below the Berea Sand
- Run 9-5/8" 40# N-80 BTC casing to isolate the Berea, shallow gas sand and salt water zones
- Cement casing to surface using displacement method with 30% excess
- Drill 8-1/2" production hole to TD
- Run 5 ½" 20# P-110 VA Superior production casing to TD
- Cement casing to surface using displacement method with 10% excess
- c. <u>Utica/ Point Pleasant well Contingency Casing Plan</u>: In a situation where there is also Utica/ Point Pleasant well(s) to be drilled on same pad, the Point Pleasant/Utica well contingency casing design based on the outcome of the Marcellus pilot well drilled will be as follows:
 - Drill 26" hole to 673' (min 50' or max 150' beyond freshwater zone)
 - Run 24" 186# X-56 DDS casing
 - Cement casing to surface using displacement method with 30% excess
 - Drill 21" hole to 925' (min 30'or max 50 beyond mine void)
 - Run 18-5/8" 87.5# J-55 BTC casing with cement basket 20' above mine void
 - Cement casing using displacement method to bottom of mine void using 100% excess
 - Grout from surface to cement basket using whatever volume of cement necessary to get cement to surface
 - Drill 17-1/2" hole to 2,292' 100' below the Berea Sand
 - Run 13-3/8" 72# N-80 BTC casing to isolate the Berea, shallow gas sand and salt water zones
 - Cement casing to surface using displacement method with 30% excess
 - Drill 12-1/4" hole to 8,852' 100' below the Lockport

Scenario-2: Drilling String/ Bottom Hole Assembly Stuck during drilling:

- If the drill string/BHA gets stuck during drilling operation:
 - Make all necessary effort and attempt to free the drill string/BHA.
 - If all effort and attempts proves unsuccessful, will notify WV DEP Inspector of situation and obtain verbal and/or email approval to plug hole back with cement plug(s) and sidetrack well
 - o Cement plug(s) will be set as needed to the desired depth adequate for successful sidetrack of well without compromising anti-collision with the original hole and ghost well(s)/adjacent wells on the same pad
 - Cement plug(s) additives will contain Class H cement, KCl, Dispersant, Anti-Foam, and Retarder.
 - o Trip in hole with Drilling Bottom Hole Assembly
 - Dress/drill cement to proposed kick off point
 - Kick off and sidetrack well and directionally drill sidetrack well to original casing point

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Office of Oil & Gas
JAN 0 6 2015

CEMENT ADDITIVES

The Water String blend will contain class A cement, 3% CaCl2, and flake.

The Coal String will be class A cement with 1% CaCl2, and flake.

The intermediate will contain class A cement, 2% CaCl2, Salt, and flake.

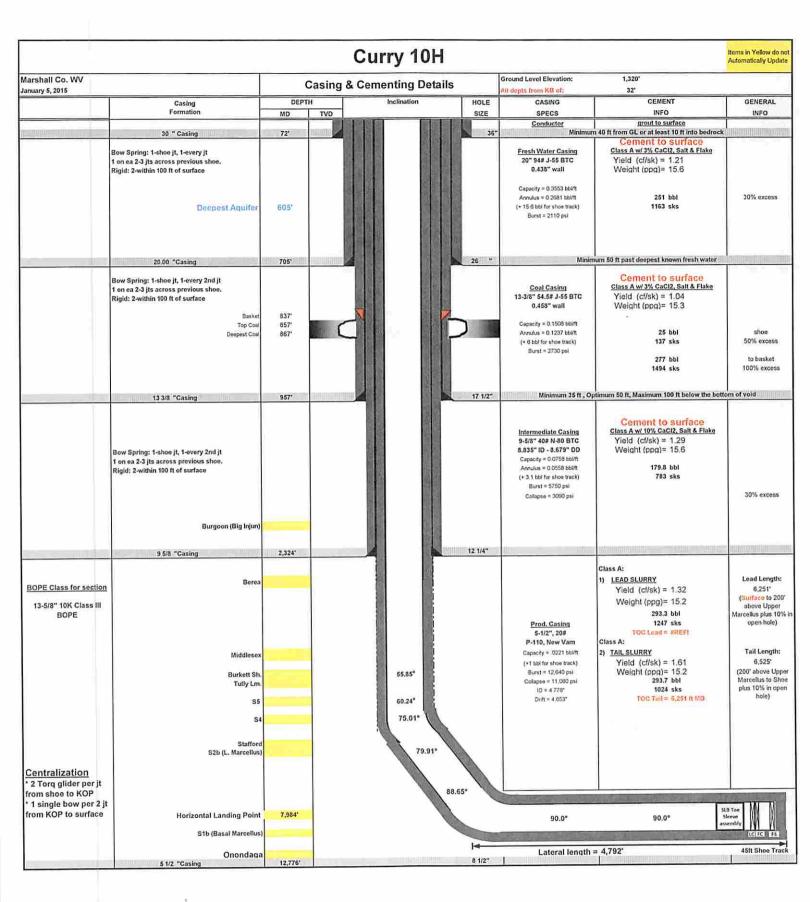
The Production cement will have a lead and tail cement.

The lead will contain class A cement, KCl, dispersant, suspension agent, and retarder.

The tail will contain class A cement, Calcium Carbonate, KCI, dispersant, de-foamer, suspension agent, and friction reducer.

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Office of Oil & Gas

4705101786

API Number 47 47 0 5 1 0 1 7 8 6 Operator's Well No. 10H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Chevron Appala	chia, LLC	OP Code	49449935
Watershed (HUC 10)_Middle	Grave Creek - Grave Creek	Quadrangle _Moundsville, W	V 7.5'
Elevation 1317	County_Marshall	District_	Washington
Do you anticipate using more t	han 5,000 bbls of water to comple	te the proposed well work? Y	Ves _ No
	anticipated pit waste: be used in the pit? Yes	No If so, what ml.?	
	ethod For Treated Pit Wastes:		
Und Reu Off	d Application lerground Injection (UIC Permit use (at API Number	-9 for disposal location)	Cuttings from the drilling prepared for transportation etc. Vertical on Air, Horizontal on Oil Based
	pe? Synthetic, petroleum, etc.Synth		
	g medium? Fluid loss control, emulsifie		Received
	? Leave in pit, landfill, removed of		Office of Oil & Gas
If left in nit and plan	n to solidify what medium will be	used? (cement, lime, sawdust)	N/A JAN 0 6 2015
-Landfill or offsite na	ame/permit number?Arden Landfill -	Permit # - PA DEP 100172	
on August 1, 2005, by the Off provisions of the permit are of law or regulation can lead to of I certify under pena application form and all attended to the control of the	fice of Oil and Gas of the West Vi- enforceable by law. Violations of enforcement action. Ity of law that I have personally achments thereto and that, based believe that the information is to information, including the possible Anna Shuamker	rginia Department of Environment of the part term or condition of the part term or condition of the part term of the part ter	ATER POLLUTION PERMIT issued then the general permit and/or other applicable with the information submitted on this lividuals immediately responsible for I am aware that there are significant
Subscribed and sworn before	me this 12 day of	August .	20 14 COMMONWEALTH OF DENBEVILLANIA
	Thomas Basinger	9	ary Lublic NOTARIAL SEAL THOMAS BASINGER Notary Public CONNELL SVILLE O 1/16/20/15 My Commission Exores Server 2015

Form WW-9 Operator's Well No. 10H Chevron Appalachia, LLC Prevegetation pH 6.5-7.0 Proposed Revegetation Treatment: Acres Disturbed 19.5 Lime 2,000 lb/ac Tons/acre or to correct to pH 6.5 to 7.0 10-20-20 Fertilizer type Fertilizer amount 1,000 lbs/acre Mulch 2 Tons/acre Seed Mixtures Permanent Temporary Seed Type lbs/acre Seed Type lbs/acre Annual Ryegrass Mixture 10 lb per acre (3/1-5/15) and (8/16-4/30) Kentucky 31 Frescue - 20 lb/ac Annual Rye Grass Red Fescue (PENN LAWN) 20 lb/ac and 41 lb/ac Barley or Oats (local seeds) 50 lb per acre (3/1-5/15) Crownvetch 20 lb/ac Hard Fescue Mixture 63 lb/ac Millet (Hungarian, German, or Japanese) 50 lb per acre (5/16-8/15) Hard Fescue Mixture 63 lb/ac Annual Ryegrass (8/1-5/15) 7lb/ac (cut & fill slopes) Cereal Rye or Cereal Wheat - 50 lb per acre (8/16-4/30) Annual Ryegrass (8/1-5/15)12 lb/ac (all other areas) Weeping Lovegrass (5/15-8/1) 5lb/ac Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided) Photocopied section of involved 7.5' topographic sheet. capied Dwelling located less than 625 Date: 8 /19/14 WV Departmen

Dil & Coes luspector

Field Reviewed?

01/16/2015

CHEVRON APPALACHIA, LLC



West Virginia Well Site Safety Plan

Curry Site Well 10H Marshall County, West Virginia

Prepared in Conformance with:

West Virginia's Code §22-6A and Legislative Rule §35-8-5.7 and

West Virginia Department of Environmental Protection's, Office of Oil and Gas documents: "Well Site Safety Plan Standards" (issued August 25, 2011), and "Deep Well Drilling Procedures and Site Safety Plan Requirements" (issued October 22, 2012)

Je 8/19/14

Revision 1

Original: September 2012

Revised: June 2013

Revised: May 2014

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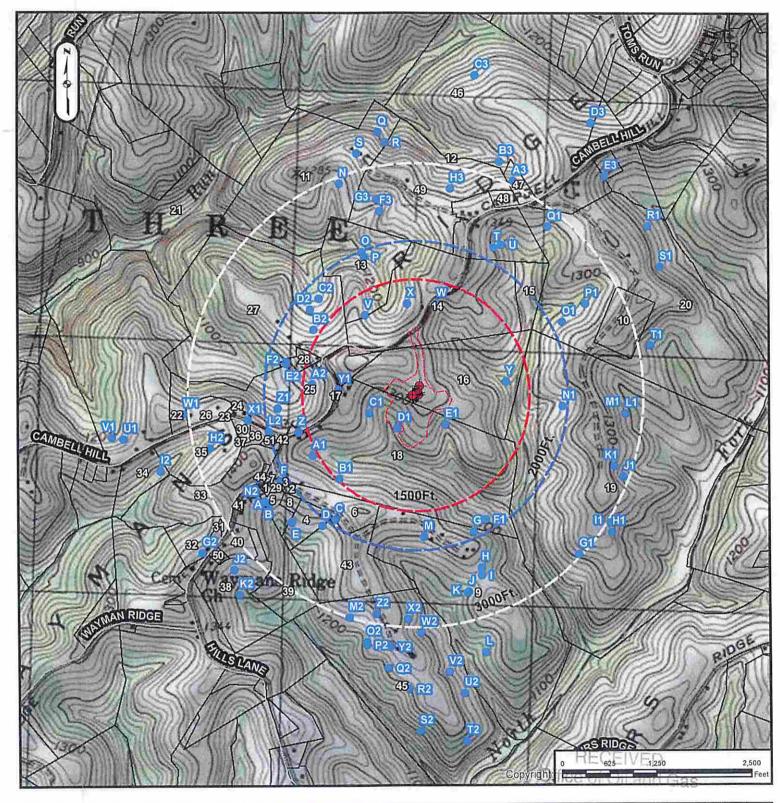
WV Department of Environmenta on

4705101786

Date: 7/21/2014

WATER SUPPLY EXHIBIT **CURRY**





SURFACE OWNER: JAMES E. CURRY

OIL/GAS OWNER: JAMES E. CURRY

WELL OPERATOR: CHEVRON APPALACHIA, LLC

ADDRESS: 800 MOUNTAIN VIEW DRIVE

SMITHFIELD, PA 15478

PHONE: 724-564-3700

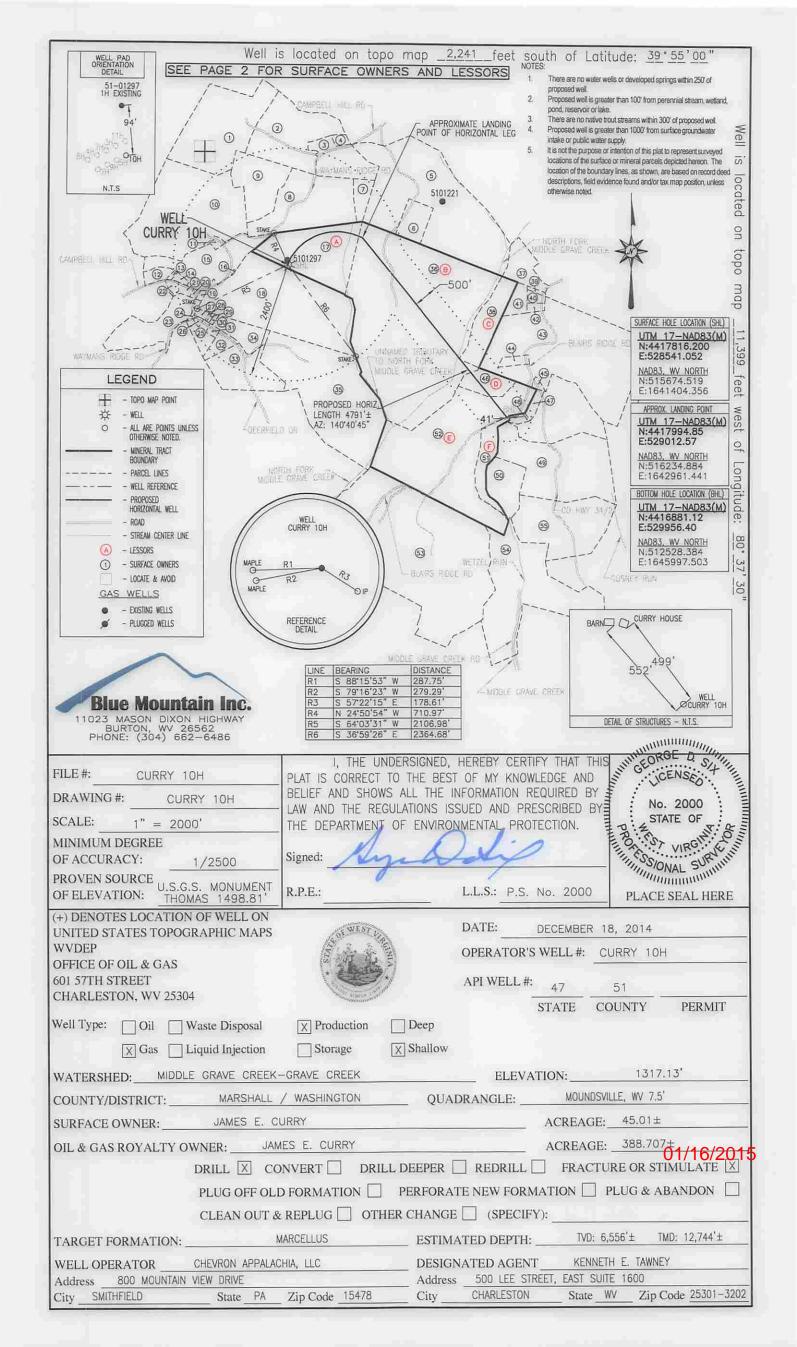
COUNTY: MARSHALL 6 2014

DISTRICT: WASHINGTON ment of

SURVEYOR: BLUE MOUNTAINING TION

ADDRESS: 11023 MASON DIXON HIGHWAY BURTON, WV 26562 01/16/2015

PHONE: 304-662-6486



CURRY 10H PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A B	JAMES E. CURRY	14-10/15
В	JOHN J. & RENEE HART	14-10/18
С	JOHN A., II & LINDA JO BIERCE	15-15/3
D E	VERNON, JR. & JUDITH E. KNOX	15-15/2
E	VERNON, JR. & JUDITH E. KNOX	15-15/1
F	VERNON, JR. & JUDITH E. KNOX	15-15/13

	SURFACE OWNER	DIST-TM/PAR
	DENNIS BLAKE ET UX	14-10/10
	DENNIS & MICHELLE S. BLAKE	14-10/11.3
	JOHN J. II & JENNA E. HART	14-10/11
	JAMES E. BLAKE	14-10/11.1
	JOHN J. & RENEE A. HART	14-10/19.1
	JOHN J. & RENEE A. HART	14-10/19
	JOHN J. HART ET UX	14-10/14
	JAMES E. CURRY	14-10/13
1	DENNIS BLAKE ET UX	14-10/12
0	MICHAEL T. DAVIS	14-10/9
1	FREDA ELIZABETH BLAKE	14-10/9.1
2	RICHARD E. HITT	14-10/8.3
3	VALLIE JAMES WEST	14-10/8
4	VALLIE JAMES WEST	14-10/8.1
5	DAVID L. BLAKE	14-10/8.2
6	JOSEPH MICHAEL CROW	14-10/16
7	JAMES E. CURRY	14-10/15
8	JOSEPH MICHAEL CROW ET UX	14-10/15
9		14-10/17
20	DAVID E. HILL ET UX	14-11/6.10
	DAVID E. HILL ET UX	14-11/0.10
21	DENNIS C. FISHER ET UX	14-11/6.4
22	DENNIS CLYDE FISHER	14-11/18
23	ILA F. MOORE ET AL	14-11/6
24	ROBERT H. BOWMAN JR.	14-11/8.1
25	PATRICIA SUE HOSKINS	14-11/8.6
26	MARY V. JAKO ET AL	14-11/8.2
27	JOHN J. & BELINDA R. BAKER	14-11/8.8
28	RICHARD W. HYETT ET UX	14-11/17
29	RICHARD W. HYETT ET UX	14-11/8.4
30	RICHARD W. HYETT ET UX	14-11/8.3
31	GREGORY SCOTT MCDONALD ET UX	14-11/8.9
32	DEBRA J. & RICHARD L. WAYT JR.	14-11/8.5
33	DAVID LAWRENCE WILSON ET UX	14-11/8
34	DAVID E, FRANKLIN	14-11/8.7
35	RAYMOND EUGENE FRANKLIN ET UX	14-11/9
36	JOHN J. HART ET UX	14-10/18
37	HEIKKI & TRISHA YEAGER	15-15/8.6
38	JOHN A. BIERCE II ET UX	15-15/3
39	JOHN A. BIERCE II ET UX	15-15/7
40	JOHN A. BIERCE II ET UX	15-15/6
11	JOHN A. BIERCE II ET UX	15-15/4
12	JOHN B. KESTNER ET UX	15-15/5
43	HONUS ADAIR STOLLAR	15-15/9
14	KANDY J. & ANTHONY E. BLATT	15-15/9.1
45	M E CHURCH	15-15/10
46	VERNON KNOX JR. ET UX	15-15/2
17	NATHAN J. & SHANEY M. LILLEY	15-15/12.3
18	MARK O. PETTIT	15-15/12.1
19	PAULINE LOU LILLEY - LIFE	15-15/15
50	VERNON KNOX JR. ET UX	15-15/14
51	VERNON KNOX JR. ET UX	15-15/13
52	VERNON KNOX JR. ET UX	15-15/1
53	RONALD A. STOLLAR	15-16/1
54	DWAIN E. GLOVER	15-16/12
55	JERRY I. & CAROLYN LILLEY	15-15/16

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4417816.200
E:528541.052

N:515674.519 E:1641404.356

APPROX, LANDING POINT UTM 17—NAD83(M) N:4417994.85 E:529012.57

N:516234.884 E:1642961.441

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4416881.12
E:529956.40

N:512528.384 E:1645997.503

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