



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

PERMIT MODIFICATION APPROVAL

December 16, 2015

CHEVRON APPALACHIA, LLC
POST OFFICE BOX 611
MOON TOWN, PA 15108

Re: Permit Modification Approval for API Number 5101780, Well #: CURRY 3H

Modified Direction of Lateral

Oil and Gas Operator:

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

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

for Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

Promoting a healthy environment.

12/18/2015

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

1) Well Operator: Chevron Appalachia, LLC 49449935 Marshall Washington Moundsville, WV
Operator ID County District Quadrangle

2) Operator's Well Number: 3H Well Pad Name: Curry

3) Farm Name/Surface Owner: Curry Public Road Access: Wayman's Ridge Road

4) Elevation, current ground: 1317' Elevation, proposed post-construction: 1317'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6,504', 56', 0.58 psi/ft

8) Proposed Total Vertical Depth: 6,666'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13,476'

11) Proposed Horizontal Leg Length: 6,427'

12) Approximate Fresh Water Strata Depths: 355' GL

13) Method to Determine Fresh Water Depths: Curry 2H

14) Approximate Saltwater Depths: 1,890'-3,080'

15) Approximate Coal Seam Depths: 825' GL

16) Approximate Depth to Possible Void (coal mine, karst, other): 825' GL

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: Alexander Mine (abandoned)
Depth: 825'-833' GL
Seam: Pittsburgh No. 8 Coal
Owner: Reserve Coal Properties Company

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18) CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|-----------|-------------|-------|------------------------|----------------------------|------------------------------|-------------------------------|
| Conductor | 30" | New | | | 40' | 40' | CTS |
| Fresh Water | 20" | New | J-55 | 94# | 405' | 405' | CTS |
| Coal | 13-3/8" | New | J-55 | 54.5# | 880' | 880' | CTS |
| Intermediate | 9-5/8" | New | J-55 | 40# | 2,292' | 2,292' | CTS |
| Production | 5.5" | New | P-110 | 20# | 13,476' | 13,476' | CTS <i>John</i> |
| Tubing | | | | | | | |
| Liners | | | | | | | |

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|------------------------|---------------------|----------------------|--|-------------|--------------------------|
| Conductor | 30" | 36" | | | | | |
| Fresh Water | 20" | 26" | 0.438" | 2,100 psi | 300 psi | Class A | 1.21 |
| Coal | 13-3/8" | 17.5" | 0.380" | 2,730 psi | 600 psi | Class A | 1.04 |
| Intermediate | 9-5/8" | 12.25" | 0.395" | 3,950 psi | 2,500 psi | Class A | 1.29 |
| Production | 5.5" | 8.5" | 0.361" | 12,640 psi | 9,000 psi | Class G | 1.5 |
| Tubing | | | | | | | |
| Liners | | | | | | | |

PACKERS

| | | | | |
|-------------|--|--|--|--|
| Kind: | | | | |
| Sizes: | | | | |
| Depths Set: | | | | |

WV Department of Environmental Protection

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill 26" hole to 673' then run and cement 20" casing to surface covering the fresh water. Drill 17.5" hole to 925' then run and cement 13-3/8" casing to surface covering coal. Drill 12.25" hole to 2,292' then run and cement to surface 9-5/8" casing. Drill 8-1/2" hole to KOP. Drill 8-1/2" curve and lateral to 13,476' MD and 6,666' TVD. Run 5-1/2" production casing and cement back to surface.

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., (acres): 12.5 acres

22) Area to be disturbed for well pad only, less access road (acres): 3.6 acres

23) Describe centralizer placement for each casing string:

There will be a bow spring centralizer every jt on the Water string. There will be bow spring centralizer every 2 joints for the Coal and Intermediate String. The production string will have a centralizer every jt in the lateral and curve, then one every two jts from KOP to surface.

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 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 production cement will contain Class G cement with poz, retarder, anti-static agent, and defoamer. The tail will contain Class A cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

Well will be circulated a minimum of 2 bottoms up once casing point has been reached on all bore sections and until uniform mud properties are achieved.

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WV Department of
Environmental Protection

*Note: Attach additional sheets as needed.

SI-0178900

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Lease Name or Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|----------------------|-----------------------|-----------------------|---------|-----------|
| see attached | | | | |

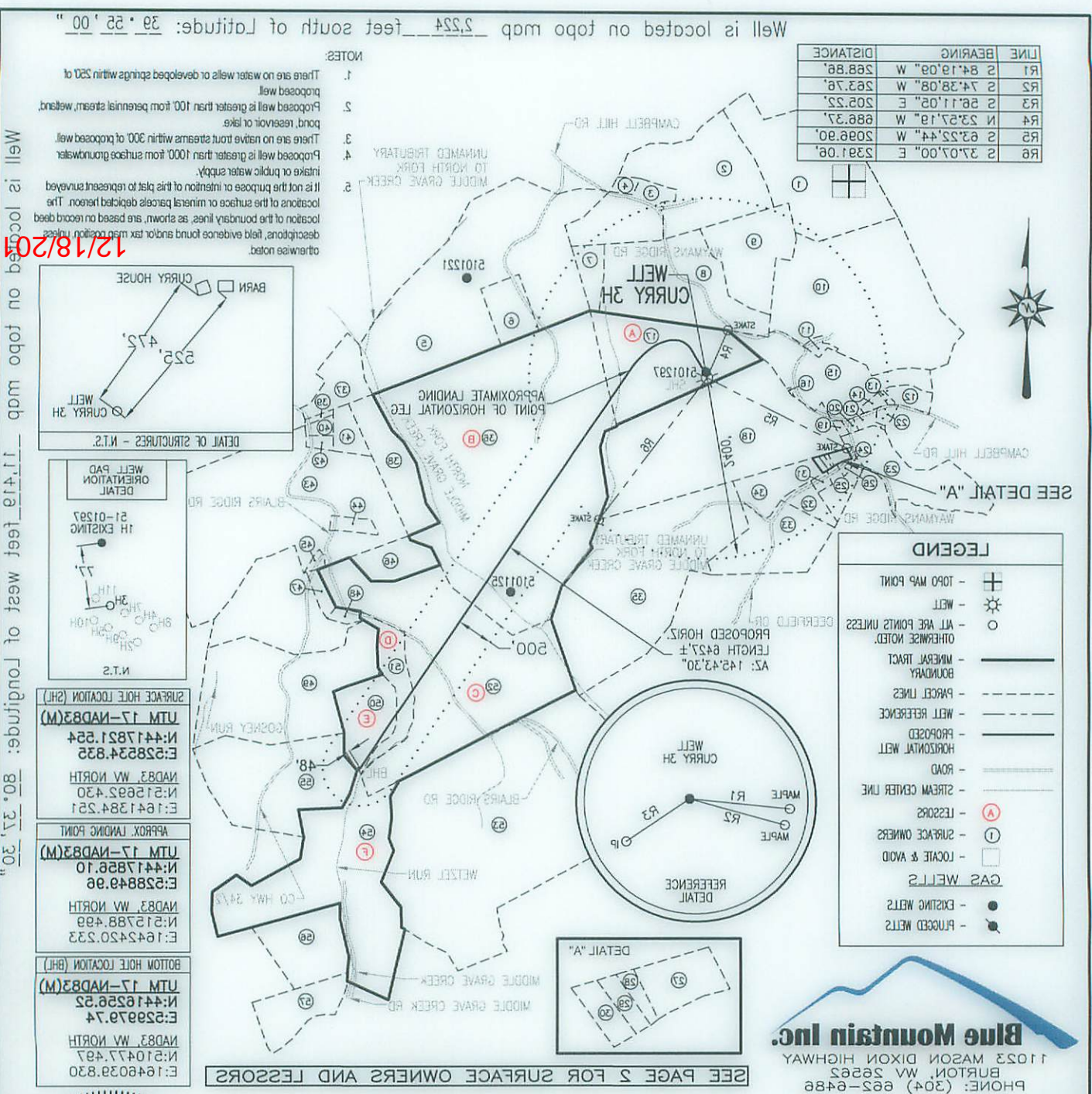
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Chevron Appalachia, LLC
 By: *Jenny Hayes*
 Its: Permitting Team Lead



Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26622
 PHONE: (304) 662-6486

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS
 PLAN 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.

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

FILE #: CURRY 3H
 DRAWING #: CURRY 3H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE: U.S.G.S. MONUMENT THOMAS 1498.81'
 OF ELEVATION:

DATE: DECEMBER 8, 2015
 OPERATOR'S WELL #: CURRY 3H
 API WELL #: 47
 STATE COUNTY PERMIT

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK
 COUNTY/DISTRICT: MARSHALL \ WASHINGTON
 SURFACE OWNER: JAMES E. CURRY
 OIL & GAS ROYALTY OWNER: JAMES E. CURRY

WELL TYPE: Oil Waste Disposal Gas Liquid Injection
 Production Storage Deep Shallow

TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TMD: 666'± TMD: 13795'±
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

WELL OPERATOR: CHEVRON APPALACHIA, LLC
 ADDRESS: 800 MOUNTAIN VIEW DRIVE
 CITY: SMITHFIELD, STATE: PA ZIP CODE: 15478
 DESIGNATED AGENT: KENNETH E. TAWNEY
 ADDRESS: 500 LEE STREET, EAST SUITE 1600
 CITY: CHARLESTON, STATE: WV ZIP CODE: 25301-3202

Well is located on topo map 2,224 feet south of Latitude: 39° 55' 00"

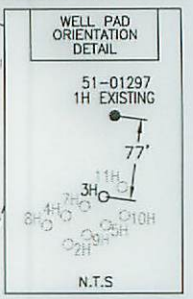
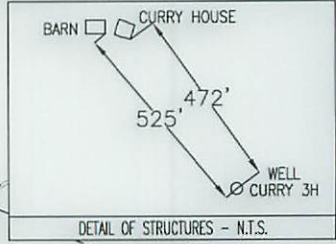
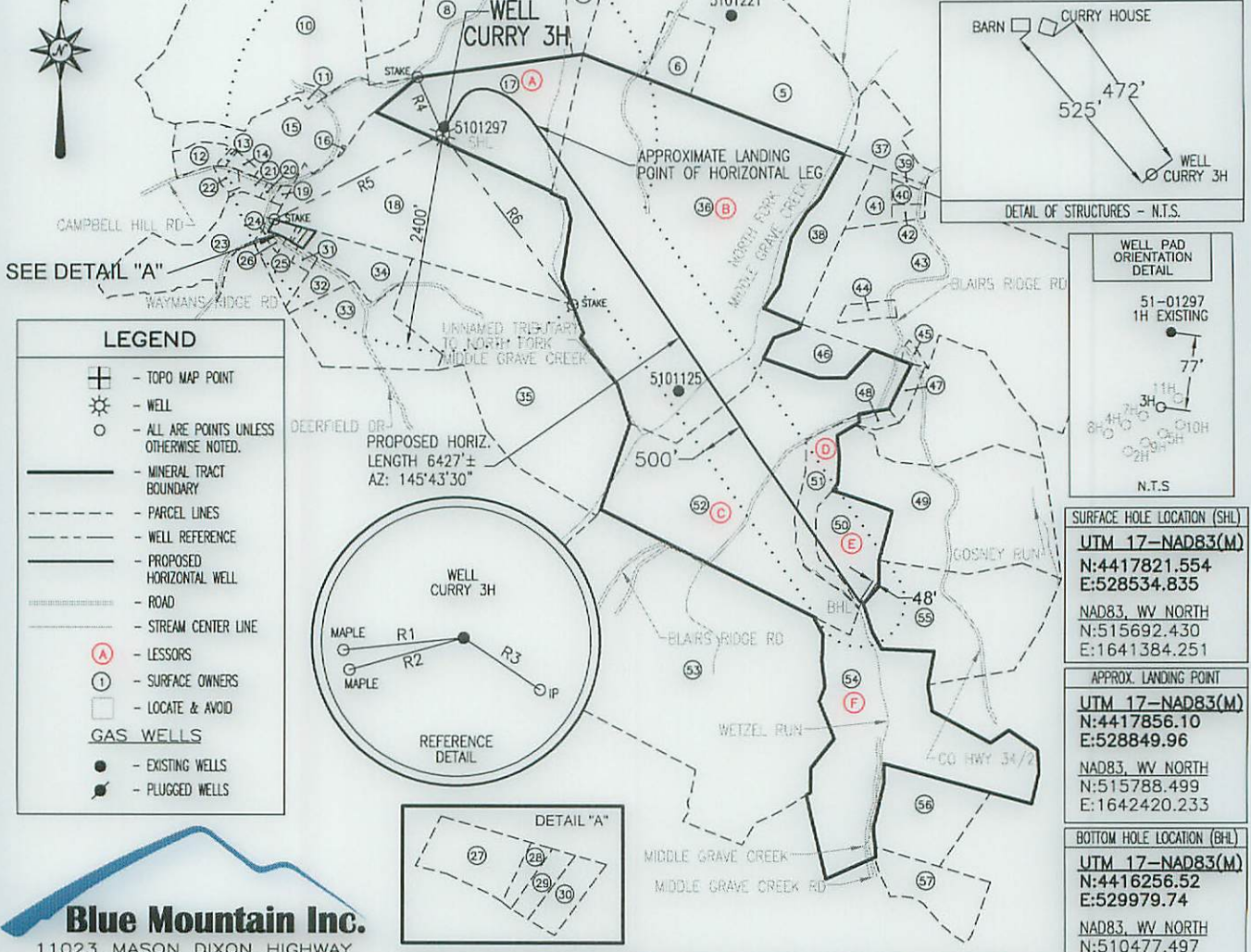
| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| R1 | S 84°19'09" W | 268.86' |
| R2 | S 74°38'08" W | 263.76' |
| R3 | S 56°11'05" E | 205.22' |
| R4 | N 23°57'19" W | 686.37' |
| R5 | S 63°22'44" W | 2096.90' |
| R6 | S 37°07'00" E | 2391.06' |

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.

12/18/2015

Well is located on topo map 1,419 feet west of Longitude: 80° 37' 30"



SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
 N:4417821.554
 E:528534.835

NAD83, WV NORTH
 N:515692.430
 E:1641384.251

APPROX. LANDING POINT

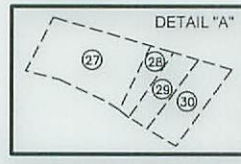
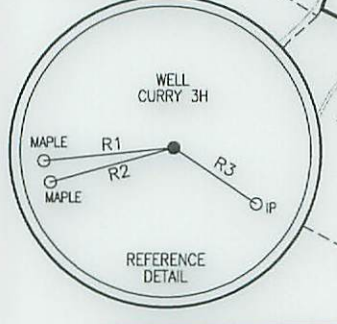
UTM 17-NAD83(M)
 N:4417856.10
 E:528849.96

NAD83, WV NORTH
 N:515788.499
 E:1642420.233

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
 N:4416256.52
 E:529979.74

NAD83, WV NORTH
 N:510477.497
 E:1646039.830



SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

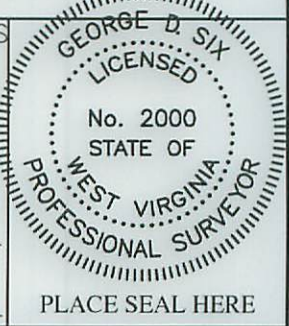
Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: CURRY 3H
 DRAWING #: CURRY 3H
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 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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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: DECEMBER 8, 2015
 OPERATOR'S WELL #: CURRY 3H
 API WELL #: 47 51 01780 H6A
 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: 451.793±

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: MARCELLUS ESTIMATED DEPTH: TVD: 6,666'± TMD: 13,792'±

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

CURRY

3H

PAGE 2 OF 2

| | LESSOR | DIST-TM/PAR |
|---|------------------------------|-------------|
| A | JAMES E. CURRY | 14-10/15 |
| B | JOHN J. & RENEE HART | 14-10/18 |
| C | VERNON, JR. & JUDITH E. KNOX | 15-15/1 |
| D | VERNON, JR. & JUDITH E. KNOX | 15-15/13 |
| E | VERNON, JR. & JUDITH E. KNOX | 15-15/14 |
| F | DWAIN E. GLOVER | 15-16/12 |

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| E:528534.835 |
| NAD83, WV NORTH |
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| N:510477.497 |
| E:1646039.830 |

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|----|--------------------------------|-------------|
| 1 | DENNIS BLAKE ET UX | 14-10/10 |
| 2 | DENNIS & MICHELLE S. BLAKE | 14-10/11.3 |
| 3 | JOHN J. II & JENNA E. HART | 14-10/11 |
| 4 | JAMES E. BLAKE | 14-10/11.1 |
| 5 | JOHN J. & RENEE A. HART | 14-10/19.1 |
| 6 | JOHN J. & RENEE A. HART | 14-10/19 |
| 7 | JOHN J. HART ET UX | 14-10/14 |
| 8 | JAMES E. CURRY | 14-10/13 |
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| 10 | MICHAEL T. DAVIS | 14-10/9 |
| 11 | FREDA ELIZABETH BLAKE | 14-10/9.1 |
| 12 | RICHARD E. HITT | 14-10/8.3 |
| 13 | VALLIE JAMES WEST | 14-10/8 |
| 14 | VALLIE JAMES WEST | 14-10/8.1 |
| 15 | DAVID L. BLAKE | 14-10/8.2 |
| 16 | JOSEPH MICHAEL CROW | 14-10/16 |
| 17 | JAMES E. CURRY | 14-10/15 |
| 18 | JOSEPH MICHAEL CROW ET UX | 14-10/17 |
| 19 | DAVID E. HILL ET UX | 14-11/7 |
| 20 | DAVID E. HILL ET UX | 14-11/6.10 |
| 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 |
| 41 | JOHN A. BIERCE II ET UX | 15-15/4 |
| 42 | JOHN B. KESTNER ET UX | 15-15/5 |
| 43 | HONUS ADAIR STOLLAR | 15-15/9 |
| 44 | 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 |
| 47 | NATHAN J. & SHANEY M. LILLEY | 15-15/12.3 |
| 48 | MARK O. PETTIT | 15-15/12.1 |
| 49 | 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 |
| 56 | DWAIN E. GLOVER | 15-16/11 |
| 57 | DWAYNE A. BONDS JR. | 15-16/10 |

51-01780 MOD

12/18/2015

DECEMBER 8, 2015

CURRY
3H
PAGE 2 OF 2

SURFACE HOLE LOCATION (SHL)
UTM 17-ND83(M)
E: 258234.835
N: 4417821.254
NAD83, W, NORTH
E: 1641384.251
N: 218882.430

APPROX. LANDING POINT
UTM 17-ND83(M)
E: 258849.98
N: 4417888.10
NAD83, W, NORTH
E: 1642420.233
N: 212788.499

BOTTOM HOLE LOCATION (SHL)
UTM 17-ND83(M)
E: 258234.74
N: 4418288.22
NAD83, W, NORTH
E: 1646038.830
N: 210477.497

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| 52 | VERNON KNOX JR. ET UX | 12-12\1 |
| 53 | RONALD A. STOLLAR | 12-12\1 |
| 54 | DWAIN E. GLOVER | 12-12\12 |
| 55 | JERRY I. & CAROLYN LILLEY | 12-12\16 |
| 56 | DWAIN E. GLOVER | 12-12\11 |
| 57 | DWAYNE A. BONDS JR. | 12-12\10 |

21-01580 MOD

12/18/2015

DECEMBER 8, 2015



| | Lessor | Lessee | Royalty | DB/PG | ASSIGNMENT 1 | ASSIGNMENT 2 | ASSIGNMENT 3 |
|-----------|------------------------------|-------------------------------------|----------------|---|---|--|--|
| (A) | James E. Curry | TriEnergy, Inc. | 12.5% minimum | DB651/PG599 (Memo) DB740/PG643 (Lease) | BK19/PG138-- TriEnergy, Inc. to AB Resources, LLC | BK24/PG319-- AB Resources, LLC to Chief Exploration & Development LLC, et al. | BK25/1--Chief Exploration & Development LLC, et al. to Chevron U.S.A. Inc. |
| (B) | John J. & Renee Hart | TriEnergy, Inc. | 12.5% minimum | DB651/PG603 (Memo) DB741/PG41 (Lease) | BK19/PG138-- TriEnergy, Inc. to AB Resources, LLC | BK24/PG319-- AB Resources, LLC to Chief Exploration & Development LLC, et al. | BK25/1--Chief Exploration & Development LLC, et al. to Chevron U.S.A. Inc. |
| (C)(D)(E) | Vernon, Jr. & Judith E. Knox | Great Lakes Energy Partners, LLC | 12.5% minimum | DB662/PG184 | Great Lakes Merges into Range Resources; Inst# 2000003233 | BK23/PG368--Range Resources-Appalachia, LLC to Chesapeake Appalachia, L.L.C. | BK30/PG461--Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc. |
| (F) | Dwain E. Glover | XTO Energy Inc. | 12.5% minimum | DB676/PG283 | BK31/PG627 -- XTO Energy Inc. to Chevron U.S.A. Inc. | N/A | N/A |

| PARCEL | LESSOR |
|---------------|------------------------------|
| A | JAMES E. CURRY |
| B | JOHN J. & RENEE HART |
| C | VERNON, JR. & JUDITH E. KNOX |
| D | VERNON, JR. & JUDITH E. KNOX |
| E | VERNON, JR. & JUDITH E. KNOX |
| F | DWAIN E. GLOVER |

SI-01780 Map

Adkins, Laura L

From: Adkins, Laura L
Sent: Friday, December 11, 2015 8:37 AM
To: 'Brooks, Kristen R'
Subject: Modification Curry Pad

Kristen,

I received the paperwork for your modification request on the Curry 3H.....I didn't realize this is the one you received a plugging permit for not long ago. The only way we can modify this permit is if you have not plugged the well and you cancel the plugging permit. I leave at noon today but if you need to talk over the phone you can always call my cell at 304-380-2773.

Laura L. Adkins

Environmental Resource Specialist III
Permit Review
WVDEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
304-926-0499 ext. 1495



Kristen Brooks
Permit Coordinator

**Appalachian/Michigan
Strategic Business Unit**
Chevron North America
Exploration and Production
A Division of Chevron U.S.A. Inc.
800 Mountain View Drive
Smithfield, PA 15478
Tel 724-564-3781
Fax 724-564-3894
kristenbrooks@chevron.com

December 9, 2015

West Virginia D.E.P.
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

RE: Curry 3H (API 47-51-01780)

Dear Sir/Madam,

Please consider this a formal modification request for the Curry 3H well (API # 47-51-01780) located in Washington District, Marshall County. Enclosed is an updated plat, WW-6B, and WW-6A1 to change the lateral of the 3H well. Should you have any questions or concerns, please contact me at (724) 564-3781 or kristenbrooks@chevron.com.

Sincerely,

A handwritten signature in cursive script that reads "Kristen Brooks".

Kristen Brooks
Permit Coordinator
Chevron Appalachia, LLC

Enclosures

RECEIVED
Office of Oil and Gas

DEC 10 2015

WV Department of
Environmental Protection

12/18/2015