



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, November 20, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit Modification Approval for FREELAND M02H
47-051-02144-00-00

Modified Lateral, Attained Additional Leases

CHEVRON APPALACHIA, LLC

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

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

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: FREELAND M02H
Farm Name: JOSEPH L. FREELAND ET UX
U.S. WELL NUMBER: 47-051-02144-00-00
Horizontal 6A New Drill
Date Modification Issued: November 20, 2019

Promoting a healthy environment.

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 Clay Powhatan Point, W
Operator ID County District Quadrangle

2) Operator's Well Number: M02H Well Pad Name: Freeland

3) Farm Name/Surface Owner: Freeland Public Road Access: CR 21 Robert Ridge Road

4) Elevation, current ground: 1274' Elevation, proposed post-construction: 1275'

5) Well Type (a) Gas X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 5370' below GL, 50' thick; Pore Pressure Gradient 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,369

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,845

11) Proposed Horizontal Leg Length: 7,980

12) Approximate Fresh Water Strata Depths: 572' below GL

13) Method to Determine Fresh Water Depths: Based on deepest water well within 2 mile radius

14) Approximate Saltwater Depths: 1709', 1789', 2120' below GL

15) Approximate Coal Seam Depths: Pittsburgh Coal top 794' below GL

16) Approximate Depth to Possible Void (coal mine, karst, other): No Void - In solid coal pillar

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

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

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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	20	New	X52	78.67	40	40	CTS
Fresh Water	13.375	New	J-55	54.5	622	622	CTS
Coal							
Intermediate	9.625	New	J-55	40	2,170	2,170	CTS
Production	5.5	New	P110	20	14,845	14,845	(500' below 9.625" shoe)
Tubing							
Liners							

Mc
10/21/19

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	20	26	0.375"				
Fresh Water	13.375	17.5	0.38	2,730	400	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	3,950	500	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14,360	2,050	Class A, G, or H	1.25
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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Environmental Protection

WW-6B
(10/14)

API NO. 47051 - 02144100

OPERATOR WELL NO. M02H

Well Pad Name: Freeland

M
10/21/19

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

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,369 feet. Drill horizontal leg.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

9525 bbl fluid - 400,000 lbm sand/stage - 9,400 anticipated max psi - 100 bpm anticipated max rate

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.2

22) Area to be disturbed for well pad only, less access road (acres): 5.0

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

24) Describe all cement additives associated with each cement type:

For the Water String the blend will contain class A cement, 3% CaCl₂, and flake. The intermediate will contain class A cement, 3% CaCl₂, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

Air sections ensured to be clean via air circulation once TD is reached. Fluid sections will be circulated a minimum of 2 bottoms up once casing point has been reached and until uniform mud properties are achieved.

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*Note: Attach additional sheets as needed.

WA Department of
Environmental Protection

051-02144 MOD



Freeland M02H

Clay Twp, Marshall Co, WV Ground Level Elev. (ft above SL): 1,274

DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	INC	AZM			
Core Barrel / Auger	2 Bowspring per Jt	20" Conductor	40	40			30	Conductor 20" API 5L Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	13-3/8" Casing	622	622			17.5	Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface Minimum 50 ft past deepest known fresh water
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	9-5/8" Casing	2,170	2,170			12.375 - 12.25	Intermediate Casing 9-5/8" 40# J-55 BTC Wall (in) 0.395 Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 3950 Collapse (psi) 2570 Yield (Jt Strength 1,000 lbs) 630	Intermediate II Blend (Class A) Cement to Surface
	Bow Spring: (1) per every other jt over coupling SpiraGlider or Centek: (1) per jt of csg to KOP RECEIVED Office of Oil and Gas OCT 24 2019 WV Department of Environmental Protection	5-1/2" Casing	14,845				8.75 - 8.5	Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry Cement to 500' below 9-5/8" shoe Production Tail Slurry TOC minimum 200' above Marcellus
	Float Equip.								
	Float Equip.								

Handwritten signature and date: Jm 10/20/19



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WV Department of
Environmental Protection

Chevron

**Appalachian LLC
WV Well Site Safety Plan**

ju
10/21/19

Pad: Freeland Pad A

Well # M02H

3599 Roberts Ridge Rd

Moundsville, WV 26041

Clay District

Marshall County, WV

Access Point – [39.865278°N, 80.758511°W]

Well Site – [39.867578°N, 80.761275°W]

Marshall County, West Virginia

Revised 12/5/2018: Casing and Cementing Info

02/18/2019: H2S Notification

**10/16/2019: Collision Avoidance, Casing and Cementing Info, Lateral Extension, Update
Contacts**

WW-6A1
(5/13)

Operator's Well No. M02H

**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
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See Attached

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OCT 24 2019


WV Department of
Environmental Protection

**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: Branden Weimer 
 Its: Senior Permitting Advisor

BHL is located on topo map 10,906 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 2,702 feet south of Latitude: 39° 52' 30"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

BHL is located on topo map 8,529 feet west of Longitude: 80° 45' 00"
 SHL is located on topo map 3,156 feet west of Longitude: 80° 45' 00"

LINE	BEARING	DISTANCE
R1	N 13°24'19" W	220.85'
R2	N 27°43'46" W	229.31'
R3	N 41°12'24" W	209.47'
R4	N 38°52'45" W	1640.42'
R5	N 22°11'03" W	1809.79'
R6	N 71°36'12" E	1218.53'

UNKNOWN TRIBUTARY TO FISH RUN
 SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4413087.74
 E:520419.64
 NAD83, WV NORTH
 N:500603.560
 E:1614494.530

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4413137.52
 E:520042.86
 NAD83, WV NORTH
 N:500787.560
 E:1613260.880

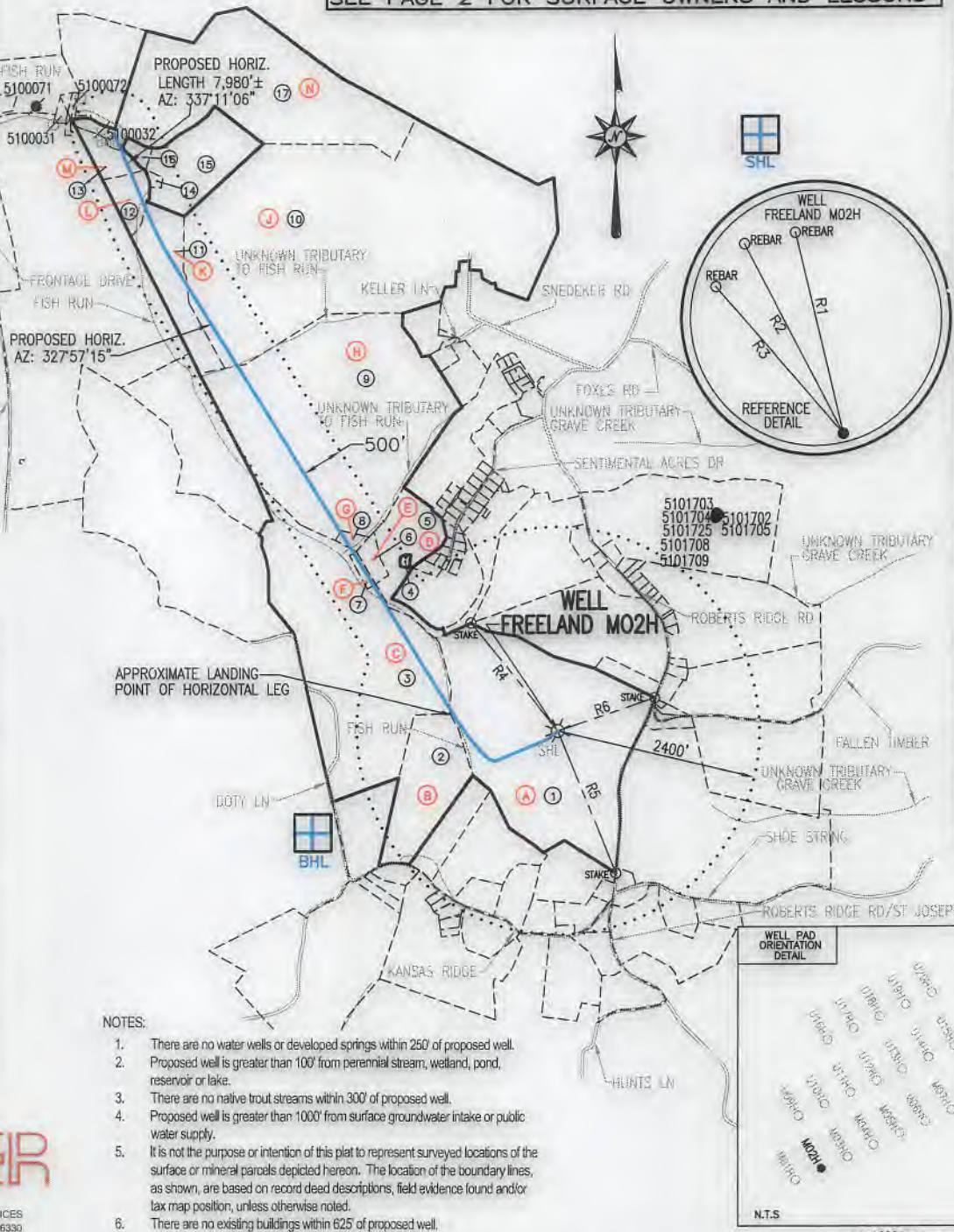
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4415208.23
 E:518776.47
 NAD83, WV NORTH
 N:507652.090
 E:1609218.750

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS



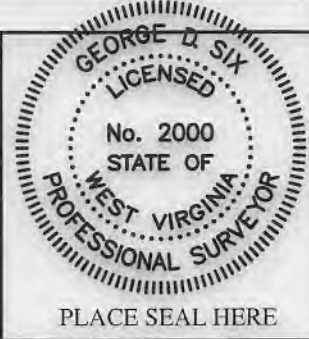
- NOTES:**
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface 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.
 - There are no existing buildings within 625' of proposed well.

THRASHER
 CIVIL · ENVIRONMENTAL · CONSULTING · FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 · FAX (304) 624-7831

FILE #: FREELAND M02H
 DRAWING #: FREELAND M02H
 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

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

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1274.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: POWHATAN POINT, WV 7.5'

SURFACE OWNER: JOSEPH L. FREELAND ET UX ACREAGE: 104.22±

OIL & GAS ROYALTY OWNER: JOSEPH FREELAND ET UX ACREAGE: 661.678±

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: 6,369'± TMD: 14,845.33'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600
 City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

DATE: OCTOBER 17, 2019

OPERATOR'S WELL #: FREELAND M02H

API WELL #: 47 51 02144 MOD
 STATE COUNTY PERMIT

FREELAND

M02H

PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	JOSEPH FREELAND ET UX	4-7/21
B	ANTHONY FRANCIS SPECHT	4-7/20
	DEBORAH DARLENE VENTLE	
	CHERYL DENISE VOSS ET VIR	
	SUSAN MAY	
	CATHERINE PAZIN	
	LINDA KENT-FARINHA	
	KRISTINE BOURQUE	
	CHARLES GARNER	
	FREDERICK H. GARNER SR.	
	DAVID GARNER	
	DORIS JEAN FALLIN GARNER	
	THOMAS L. GARNER	
	KAREN HARPER	
	LESLIE GARNER	
	VALORIE HARPER	
	VIRGINIA THOMPSON	
	RUSSELL GARNER	
	BARBARA DOUGLAS	
	LINDA ZAREMBA	
	AMBER SPIESS	
	SHEENA LEA SCALES	
	WILLIAM R. HUGHES	
	ANTHONY F. MANZO	
	DANIEL MANZO SR.	
	ROBERT H. ROBINSON SR.	
	ROBERT H. ROBINSON JR.	
	LISA SHROYER	
	KEITH A. ROBINSON	
	JOHN L. SIMONETTI	
	JOHN M. SIMONETTI	
	JAMES SIMONETTI	
	CHARLES D. CUDDIHY	
	DAVID CUDDIHY	
	CAROL DRUMMOND	
	MARGO KAVANAS	
	WELDON L. KING ET UX	
	RENA ELAINE DEBLASIO	
	REBELLEE WILLIAMS	
	GARY SHEETS ET UX	
	JULIE MCALISTER	
	JUDITH R. VON BLON	
	REGINA WASHABAUGH	
	SHEILA MCDANIEL	
	DAVID VAUGHN JR.	
	ELLEN COOK	
	VIRGINIA HORNSBY	
	PATRICIA CHENOWETH	
	DORIS CALDWELL	
	LAURA L. BELL	
	SHANNON DEMPSEY	
	JACQUELINE CIRULLO	
	CURTISS RUCKMAN	
	WENDY ELIZABETH ZISKO	
	DARLENE A. COX-WEIGUM LIFE ESTATE	
	MICHAEL RUCKMAN	
	JAMIE CROSSMAN	
	ORPHA MAY HYDE	
	BEVERLY LINDSEY	
	THOMAS M. WILLIAMS III	
	DORIS L. MEIGH ET VIR	
	DOROTHY L. MEYERS ET VIR	
	PAMELA OSTROSKE	
	EUGENE BLUMLING ET UX	
	MARIE E. CSONTOS	
	MARGO LONG	
	BARBARA A. WEST	
	REBECCA S. BASIL	
	CHRISTINA M. BASIL	
	ROSS V. BASIL	
	ANTHONY C. BASIL	
	NORMAN DERROW	

	LESSOR	DIST-TM/PAR
C	HG ENERGY II APPALACHIA LLC	4-7/12
D	ROGER R. KING ET UX	4-7/5
E	*HG ENERGY II APPALACHIA LLC	4-7/5.1
F	HG ENERGY II APPALACHIA LLC	4-7/12.1
G	HG ENERGY II APPALACHIA LLC	4-5/75.1
H	ROSEANNA KELLER ET VIR	4-5/75
J	LANE P. RINE ET UX	4-5/73
K	EMMA A. SNEDEKER	4-6/9
	NOREEN S. HEDRICK	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	KATHERINE MATHEWS	
	FLOYD EUGENE BOLEN JR.	
	ROBERT M. MERASHOFF	
	EQT PRODUCTION CO ET AL	
L	EMMA A. SNEDEKER	4-6/10
	NOREEN S. HEDRICK	
	CHESTNUT HOLDINGS LLC	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	ROBERT M. MERASHOFF	
	EQT PRODUCTION CO ET AL	
M	EMMA A. SNEDEKER	4-6/13.2
	NOREEN S. HEDRICK	
	CHESTNUT HOLDINGS LLC	
	EVELYN K. SNEDEKER	
	ROBERT D. SIGLER ET UX	
	NANCY C. RIGGS	
	DONALD A. SNEDEKER	
	DELORES J. CALLIHAN	
	TRACI L. WILLIAMS	
	ROBERT J. SCHAUER ET UX	
	ROBERT M. MERASHOFF	
	EQT PRODUCTION CO ET AL	
N	CHESTNUT HOLDINGS LLC	4-6/13
	EVELYN K SNEDEKER	
	ROBERT D SIGLER ET UX	
	NANCY C RIGGS	
	DONALD A SNEDEKER	
	EMMA A SNEDEKER	
	DELORES J CALLIHAN	
	NOREEN S HEDRICK	
	ROBERT J SCHAUER ET UX	
	TRACI L WILLIAMS	
	ROBERT M MERASHOFF	
	EQT PRODUCTION CO ET AL	

	SURFACE OWNER	DIST-TM/PAR
1	JOSEPH L. FREELAND ET UX	4-7/21
2	BIBIANA DERROW	4-7/20
3	CATHY J. & CARL F. JR., PETRUCCI	4-7/12
4	MARSHALL COUNTY SEWERAGE DIST.	4-7/5.7
5	LINDA J. KING	4-7/5
6	*CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	4-7/5.1
7	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	4-7/12.1
8	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	4-5/75.1
9	KELLER FAMILY TRUST	4-5/75
10	LANE P. & TONI L. RINE	4-5/73
11	LEROY D. ROSIER EST	4-6/9
12	MOLLIE ROSIER - EST	4-6/10
13	RONALD L. GALENTINE	4-6/13.2
14	DAVID L. ROSIER ET UX	4-6/11
15	FLOYD W. BOLEN ET UX ESTS	4-6/12
16	FLOYD W. BOLEN ET UX ESTS	4-6/13.1
17	ROBERT W. ASTON	4-6/13

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
 N:4413087.74
 E:520419.64
 NAD83, WV NORTH
 N:500603.560
 E:1614494.530

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4413137.52
 E:520042.86
 NAD83, WV NORTH
 N:500787.560
 E:1613260.880

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4415208.23
 E:518776.47
 NAD83, WV NORTH
 N:507652.090
 E:1609218.750

* -- DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

THRASHER

OCTOBER 17, 2019

API WELL #: 47

51

02144 MOD

STATE COUNTY PERMIT

Freeland Unit #2H - BATCH 1 - MRCL FULL

Plat ID	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
A	4-7-21	FREELAND JOSEPH ET UX	Chevron U.S.A. Inc.	≥ 0.125	932/374	n/a	n/a	n/a
		SPECHT ANTHONY FRANCIS - SFX	Chevron U.S.A. Inc.	≥ 0.125	1014/582	n/a	n/a	n/a
		VENTLE DEBORAH DARLENE - SFX	Chevron U.S.A. Inc.	≥ 0.125	958/138	n/a	n/a	n/a
		VOSS CHERYL DENISE ET VIR - SFX	Chevron U.S.A. Inc.	≥ 0.125	958/150	n/a	n/a	n/a
		MAY SUSAN - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/328	n/a	n/a	n/a
		PAZIN CATHERINE - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/331	n/a	n/a	n/a
		FARINHA KENT LINDA - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/253	n/a	n/a	n/a
		BOURQUE KRISTINE - SFX	Chevron U.S.A. Inc.	≥ 0.125	935/172	n/a	n/a	n/a
		GARNER CHARLES - SFX	Chevron U.S.A. Inc.	≥ 0.125	930/662	n/a	n/a	n/a
		GARNER FREDERICK H SR - SFX	Chevron U.S.A. Inc.	≥ 0.125	930/613	n/a	n/a	n/a
		GARNER DAVID - SFX	Chevron U.S.A. Inc.	≥ 0.125	929/520	n/a	n/a	n/a
		GARNER DORIS JEAN FALLIN - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/337	n/a	n/a	n/a
		GARNER THOMAS L - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/389	n/a	n/a	n/a
		HARPER KAREN - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/322	n/a	n/a	n/a
		GARNER LESLIE - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/380	n/a	n/a	n/a
		HARPER VALORIE - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/383	n/a	n/a	n/a
		THOMPSON VIRGINIA - SFX	Chevron U.S.A. Inc.	≥ 0.125	930/619	n/a	n/a	n/a
		GARNER RUSSELL - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/319	n/a	n/a	n/a
		DOUGLAS BARBARA - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/334	n/a	n/a	n/a
		ZAREMBA LINDA - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/325	n/a	n/a	n/a
		SPIESS AMBER - SFX	Chevron U.S.A. Inc.	≥ 0.125	966/222	n/a	n/a	n/a
		SCALES SHEENA LEA - SFX	Chevron U.S.A. Inc.	≥ 0.125	941/365	n/a	n/a	n/a
		HUGHES WILLIAM R - SFX	Chevron U.S.A. Inc.	≥ 0.125	941/374	n/a	n/a	n/a
		MANZO ANTHONY F - SFX	Chevron U.S.A. Inc.	≥ 0.125	939/174	n/a	n/a	n/a
		MANZO DANIEL SR - SFX	Chevron U.S.A. Inc.	≥ 0.125	935/201	n/a	n/a	n/a
		ROBINSON ROBERT H SR - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/271	n/a	n/a	n/a
		ROBINSON ROBERT H JR - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/386	n/a	n/a	n/a
		SHROYER LISA - SFX	Chevron U.S.A. Inc.	≥ 0.125	934/468	n/a	n/a	n/a
		ROBINSON KEITH A - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/283	n/a	n/a	n/a
		SIMONETTI JOHN L - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/238	n/a	n/a	n/a
		SIMONETTI JOHN M - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/235	n/a	n/a	n/a
		SIMONETTI JAMES - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/232	n/a	n/a	n/a

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		CUDDIHY CHARLES D - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/274	n/a	n/a	n/a
		CUDDIHY DAVID - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/247	n/a	n/a	n/a
		DRUMMOND CAROL - SFX	Chevron U.S.A. Inc.	≥ 0.125	934/106	n/a	n/a	n/a
		KAVANAS MARGO - SFX	Chevron U.S.A. Inc.	≥ 0.125	929/523	n/a	n/a	n/a
		KING WELDON L ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	937/347	n/a	n/a	n/a
		DEBLASIO RENA ELAINE - SFX	Chevron U.S.A. Inc.	≥ 0.125	954/22	n/a	n/a	n/a
		WILLIAMS REBELLEE - SFX	Chevron U.S.A. Inc.	≥ 0.125	976/268	n/a	n/a	n/a
		SHEETS GARY ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	944/397	n/a	n/a	n/a
		MICALISTER JULIE - SFX	Chevron U.S.A. Inc.	≥ 0.125	954/25	n/a	n/a	n/a
		VON BLON JUDITH R - SFX	Chevron U.S.A. Inc.	≥ 0.125	928/186	n/a	n/a	n/a
		WASHABAUGH REGINA - SFX	Chevron U.S.A. Inc.	≥ 0.125	928/168	n/a	n/a	n/a
		MCDANIEL SHEILA - SFX	Chevron U.S.A. Inc.	≥ 0.125	928/183	n/a	n/a	n/a
		VAUGHN DAVID JR - SFX	Chevron U.S.A. Inc.	≥ 0.125	1013/567	n/a	n/a	n/a
		COOK ELLEN - SFX	Chevron U.S.A. Inc.	≥ 0.125	1013/567	n/a	n/a	n/a
		HORNSBY VIRGINIA - SFX	Chevron U.S.A. Inc.	≥ 0.125	1013/567	n/a	n/a	n/a
		CHENOWETH PATRICIA - SFX	Chevron U.S.A. Inc.	≥ 0.125	942/536	n/a	n/a	n/a
		CALDWELL DORIS - SFX	Chevron U.S.A. Inc.	≥ 0.125	931/316	n/a	n/a	n/a
		BELL LAURA L - SFX	Chevron U.S.A. Inc.	≥ 0.125	934/103	n/a	n/a	n/a
		DEMPSEY SHANNON - SFX	Chevron U.S.A. Inc.	≥ 0.125	949/16	n/a	n/a	n/a
		CIRULLO JACQUELINE - SFX	Chevron U.S.A. Inc.	≥ 0.125	932/256	n/a	n/a	n/a
		RUCKMAN CURTISS - SFX	Chevron U.S.A. Inc.	≥ 0.125	934/97	n/a	n/a	n/a
		ZISKO WENDY ELIZABETH	Chevron U.S.A. Inc.	≥ 0.125	944/394	n/a	n/a	n/a
		COX-WEIGUM DARLENE - LIFE ESTATE	Chevron U.S.A. Inc.	≥ 0.125	1008/564	n/a	n/a	n/a
		RUCKMAN MICHAEL	Chevron U.S.A. Inc.	≥ 0.125	1013/567	n/a	n/a	n/a
		CROSSMAN JAMIE	Chevron U.S.A. Inc.	≥ 0.125	979/337	n/a	n/a	n/a
		HYDE ORPHA MAY - SFX	Noble Energy, Inc.	≥ 0.125	833/470	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		LINDSEY BEVERLY LINDA HUBER AIF - SFX	Chevron U.S.A. Inc.	≥ 0.125	944/388	n/a	n/a	n/a

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		WILLIAMS THOMAS M III - SFX	Noble Energy, Inc.	≥ 0.125	805/594	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		MEIGH DORIS L ET VIR - SFX	Noble Energy, Inc.	≥ 0.125	805/567	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		MEYERS DOROTHY L ET VIR - SFX	Noble Energy, Inc.	≥ 0.125	805/565	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		OSTROSKE PAMELA - SFX	Chevron U.S.A. Inc.	≥ 0.125	949/67	n/a	n/a	n/a
		BLUMLING EUGENE ET UX - SFX	Noble Energy, Inc.	≥ 0.125	805/569	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		CSONTOS MARIE E - SFX	Noble Energy, Inc.	≥ 0.125	803/593	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		MARGO LONG - SFX	Noble Energy, Inc.	≥ 0.125	803/622	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		WEST BARBARA A - SFX	Noble Energy, Inc.	≥ 0.125	805/571	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		BASIL REBECCA S - SFX	Noble Energy, Inc.	≥ 0.125	805/563	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a
		BASIL CHRISTINA M - SFX	Noble Energy, Inc.	≥ 0.125	805/561	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A., Inc.	n/a

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		BASIL ROSS V - SFX	Noble Energy, Inc.	≥ 0.125	816/281	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		BASIL ANTHONY C - SFX	Noble Energy, Inc.	≥ 0.125	803/610	39/1 Noble Energy, Inc. to HG Energy II Appalachia	40/577 HG Energy II Appalachia, LLC to Chevron U.S.A. Inc.	n/a
		DERROW NORMAN - SFX	Chevron U.S.A. Inc. ✓	≥ 0.125	852/409	n/a	n/a	n/a
C	4-7-12	HG ENERGY II APPALACHIA LLC KING ROGER R ET UX	Chevron U.S.A. Inc. ✓ Chesapeake Appalachia, LLC	≥ 0.125	954/478	n/a 23/127 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	n/a 30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc. ✓	n/a 30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
D	4-7-5		Chesapeake Appalachia, LLC	≥ 0.125	700/415			
E	4-7-5.1	HG ENERGY II APPALACHIA LLC	Chevron U.S.A. Inc.	≥ 0.125	954/478	n/a	n/a	n/a
F	4-7-12.1	HG ENERGY II APPALACHIA LLC	Chevron U.S.A. Inc.	≥ 0.125	954/478	n/a	n/a	n/a
G	4-5-75.1	HG ENERGY II APPALACHIA LLC KELLER ROSEANNA ET VIR	Chevron U.S.A. Inc. Chesapeake Appalachia, LLC	≥ 0.125	954/478	n/a 29/325 Chesapeake Appalachia, LLC to Statoil USA Onshore Properties, Inc.	n/a 30/392 Chesapeake Appalachia, LLC to Chevron U.S.A. Inc. ✓	n/a 30/404 Statoil USA Onshore Properties Inc. to Chevron U.S.A. Inc.
H	4-5-75		Chesapeake Appalachia, LLC	≥ 0.125	714/190			
J	4-5-73	RINE LANE P ET UX SNEDEKER EMMA A - SFX HEDRICK NOREEN S - SFX SNEDEKER EVELYN K - SFX SIGLER ROBERT D ET UX - SFX RIGGS NANCY C - SFX SNEDEKER DONALD A - SFX CALLIHAN DELORES J - SFX WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc.	≥ 0.125 ≥ 0.125 ≥ 0.125 ≥ 0.125 ≥ 0.125 ≥ 0.125 ≥ 0.125 ≥ 0.125	796/226 803/580 807/155 803/63 801/501 801/511 801/521 803/53 813/610	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a
K	4-6-9	SCHAUER ROBERT J ET UX - SFX MATHEWS KATHERINE - SFX BOLEN FLOYD EUGENE JR - SFX	Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc.	≥ 0.125 ≥ 0.125 ≥ 0.125	813/620 917/45 917/48	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a

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L	4-6-10	MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	≥ 0.125	817/479	n/a	n/a	n/a
		EQT PRODUCTION CO ET AL	Chevron U.S.A. Inc.	≥ 0.125	955/521	n/a	n/a	n/a
		SNEDEKER EMMA A - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/580	n/a	n/a	n/a
		HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc.	≥ 0.125	807/155	n/a	n/a	n/a
		CHESTNUT HOLDINGS LLC	Republic Energy Ventures, LLC	≥ 0.125	839/176	32/415 Republic Energy Ventures, LLC to Chevron U.S.A. Inc. ✓	n/a	n/a
		SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/63	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/501	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/511	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/521	n/a	n/a	n/a
		CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/53	n/a	n/a	n/a
		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	≥ 0.125	813/610	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	813/620	n/a	n/a	n/a
M	4-6-13.2	MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	≥ 0.125	817/479	n/a	n/a	n/a
		EQT PRODUCTION CO ET AL	Chevron U.S.A. Inc.	≥ 0.125	955/521	n/a	n/a	n/a
		SNEDEKER EMMA A - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/580	n/a	n/a	n/a
		HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc.	≥ 0.125	807/155	n/a	n/a	n/a
		CHESTNUT HOLDINGS LLC	Republic Energy Ventures, LLC	≥ 0.125	839/176	32/415 Republic Energy Ventures, LLC to Chevron U.S.A. Inc. ✓	n/a	n/a
		SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/63	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/501	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/511	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/521	n/a	n/a	n/a
		CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/53	n/a	n/a	n/a
		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	≥ 0.125	813/610	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	813/620	n/a	n/a	n/a

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N	4-6-13	CHESTNUT HOLDINGS LLC	Republic Energy Ventures, LLC	≥ 0.125	839/176	32/415 Republic Energy Ventures, LLC to ✓ Chevron U.S.A. Inc.	n/a	n/a
		SNEDEKER EVELYN K - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/63	n/a	n/a	n/a
		SIGLER ROBERT D ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/501	n/a	n/a	n/a
		RIGGS NANCY C - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/511	n/a	n/a	n/a
		SNEDEKER DONALD A - SFX	Chevron U.S.A. Inc.	≥ 0.125	801/521	n/a	n/a	n/a
		SNEDEKER EMMA A - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/580	n/a	n/a	n/a
		CALLIHAN DELORES J - SFX	Chevron U.S.A. Inc.	≥ 0.125	803/53	n/a	n/a	n/a
		HEDRICK NOREEN S - SFX	Chevron U.S.A. Inc.	≥ 0.125	807/155	n/a	n/a	n/a
		SCHAUER ROBERT J ET UX - SFX	Chevron U.S.A. Inc.	≥ 0.125	813/620	n/a	n/a	n/a
		WILLIAMS TRACI L - SFX	Chevron U.S.A. Inc.	≥ 0.125	813/610	n/a	n/a	n/a
		MERASHOFF ROBERT M - SFX	Chevron U.S.A. Inc.	≥ 0.125	817/479	n/a	n/a	n/a
EQT		Chevron U.S.A. Inc.	≥ 0.125	955/521	n/a	n/a	n/a	

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