



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

Monday, June 24, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

AMERICAN PETROLEUM PARTNERS OPERATING, LLC
4600 J. BARRY COURT SUITE 310

CANONSBURG, PA 15317

Re: Permit Modification Approval for HARRENHAL-9UH
47-051-02091-00-00

Lateral Extension to 22,589' TMD.

AMERICAN PETROLEUM PARTNERS OPERATING, 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: HARRENHAL-9UH
Farm Name: APP MINERALS LLC
U.S. WELL NUMBER: 47-051-02091-00-00
Horizontal 6A New Drill
Date Modification Issued: June 24, 2019

Promoting a healthy environment.



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-926-0499 Ext 1274

Barry K. Lay, Chairman
dep.wv.gov

May 1, 2019

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02091

COMPANY: American Petroleum Partners Operating, LLC

FARM: APP Minerals, LLC

Harrenhal-9UH

COUNTY: Marshall

DISTRICT: Webster

QUAD: Moundsville/Majorsville

The deep well review of the application for the above company is **Approved to drill to the Point Pleasant for completion. Pooling Docket No. 275-259**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Comments to Notice of Deviation filed? yes
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: 47-051-02090, 47-051-02137, 47-051-02136, 47-051-02178, 47-051-02179, 47-051-02180, 47-051-02134, 47-051-02106, 47-051-02118
4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose
Administrator

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

1) Well Operator: American Petroleum Partners 494521257 Marshall Webster Moundsville
Operator ID County District Quadrangle

2) Operator's Well Number: Harrenhal-9UH Well Pad Name: Dire Wolf-Harrenhal

3) Farm Name/Surface Owner: App Minerals, LLC Public Road Access: McCreary's Ridge Road (CR 7)

4) Elevation, current ground: 1134.2' Elevation, proposed post-construction: 1125'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

JW
12/19/18

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Point Pleasant Formation 11,395' / 130' thick 10,141 or .89 psi per foot / Utica Formation 11,042 150' thick / 10,000 psi or .89 psi per foot.

8) Proposed Total Vertical Depth: 11,395'

9) Formation at Total Vertical Depth: Point Pleasant

10) Proposed Total Measured Depth: 22,589'

11) Proposed Horizontal Leg Length: 10,770'

12) Approximate Fresh Water Strata Depths: 162'

13) Method to Determine Fresh Water Depths: Nearest offset well

14) Approximate Saltwater Depths: Na

15) Approximate Coal Seam Depths: 455', 655'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated. drilling in pillar - Mine maps attached.

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: The Ohio County Mine-Murray American Energy and Consolidation Coal Company
Depth: 455', 655'
Seam: Pittsburgh #8
Owner: Murray American Energy & Consolidation Coal 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	LS	81.3#	60'	60'	CTS
Fresh Water	20"	New	J-55	94#	705'	705'	CTS15.6ppg to surf 521 sx w/30% OH ex
Coal	13 3/8"	New	J-55	54.5#	2,158'	2,158'	CTS15.2ppg to surf 556 sx w/30% OH Ex
Intermediate	9 5/8"	New	HCP-110	43.5#	9,542'	9,542'	CTS15.4ppg to surf 936 sx w/30% OH ex
Production	5 1/2"	New	HCP-110	23#	22,589'	22,589'	14.8ppg TOC >=200' above 9,625 shoe
Tubing	2 7/8"	New	J-55	6.5#	11,400	11,400'	CTS
Liners							

Handwritten signature and date: 12/19/18

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"		300		Type 1	Lead yield 2.38 Tail 521 sx Yield 1.18
Fresh Water	20"	24"	.438	2,110	400	Class A	Lead yield 2.38 Tail 556 sx Yield 1.27
Coal	13 3/8"	17.5"	.380	2,730	688	Class A	Lead Yield 2.38 Tail 556 sx Yield 1.27
Intermediate	9 5/8"	12.375"-12.25" ₊	.395	7,870	3,166	Class A	Lead Yield 1.28 Tail 936 sx Yield 1.28
Production	5 1/2"	8.5"	.361	14,360	11,000	Class H	Lead Yield 1.27 Tail 4714 sx Yield 1.27
Tubing	2 7/8"	5.14"	.217	10,570	8,000		
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WV Department of
Environmental Protection

juw
12/19/15

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

Drill the vertical depth to the Point Pleasant at an estimated total vertical depth of approximately 11,395'. Drill the horizontal leg- stimulate and produce the Utica/ Point Pleasant formation. Should we encounter a unanticipated void we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

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

The stimulation will be in multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. Our maximum pressure is not to exceed 10,000 lbs.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.6 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.3 acres

23) Describe centralizer placement for each casing string:

Conductor- No centralizers used. Freshwater/Surface- Bow Spring centralizers every 3 joints to 100' from surface. 1st Intermediate - Bow Spring centralizers every 3 joints to 100' from surface. 2nd Intermediate - Bow Spring centralizers every 3 joints to 100' from surface. Production - Rigid bow springs every third joint from KOP to TOC. Rigid every joint to KOP.

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

Type 1 to Surface. Surface/Freshwater - 15.6 Class A +2% CaCl, 30% OH Excess Yield =1.18. 1st Intermediate - 15.6 ppg Class A +2% CaCl, 0.25 Lost Circ. 30% Yield =1.27. 2nd Intermediate- 2 Stage cement job with 15.4 ppg Class A lead + additives (antisetling, antifoam, fluid loss retarder, salt, viscosifer) & 15.4 Class A tail with additives (antisetling, antifoam, fluid loss retarder, salt, dispersant or 12.0 Class A lead + additives (+/-5% dispersant, 10% light weight additive, 75% fluid loss additive, and 1.15% fluid loss additive, Yield=1.28) 15.4 ppg Class A Tail + additives (+/- fluid loss additive, & .5% light weight additive, Yield 1.28), 0.125#/SK lost circ 30% excess to Surface. Production- 12.5ppg Class H Lead +additives and 14.8 ppg Class H Tail + additives (antifoam, antisetling, extender,dispersant) 15%excess TOC>=200' above 9.625" shoe.

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing is run on air. Apart from insuring hole is clean via air circulation at TD, there are no other conditioning procedures. Freshwater/Surface- The hole is drilled w/air or Freshwater based mud and casing is run on air. Once casing is at setting depth, fill with KCl water circulate a minimum of one hole volume prior to pumping cement. First Intermediate- Drilled on Air. Once casing is at a setting depth, circulate a minimum of one hole volume prior to pumping cement. Second Intermediate - Drilled on air. Fill with salt saturated water once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Production- drilled on +/- 14.8ppg SOB.M. Once at TD, circulate at max allowable pump rate for at least 60 minutes up. Once on bottom with casing, circulate minimum of one hole volume prior to pumping cement.

Office of Oil and Gas

*Note: Attach additional sheets as needed.

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51-02091 MOD



DRILLING WELL PLAN

Harrenhal-9UH
Utica Horizontal
Marshall Co, WV

Horizontal Well Plan with Cemented Long String Completion

HOLE	RIG	CASING	GEOLOGY	Top TVD	MD	MUD	CEMENT	DIRECTIONAL	LOGS	BITS	COMMENTS
36"	Conductor Rig	30" 81.3# LS	Conductor	60	60	AIR	To Surface	N/A	N/A		Stabilize surface fill/soil
24"	Top-Hole	20" 94# J-55 BTC	Sewickley Coal Pittsburgh Coal	455 655		AIR	15.6ppg to surface 521sx w/ 30% OH excess	20" Air Hammer Totoco at TD	CBL Log Cased hole NPHI, GR at Pilot TD in Pilot Well only	Carbide hammer bit	Protect fresh groundwater
17.5"	Top-Hole	13-3/8" 54.5# J-55 BTC	Surf. Casing Big Lime Greenbrier Group Big Injun	705 1734 1808 1858	705	AIR	15.2ppg to surface 556sx w/ 30% OH excess	Center Rock 15" Air Hammer Gyro above Coal, (Mine Approval) Totoco at TD		Hammer bit w/ diamond gage Test casing to 800psi	
12.375" 12.25"	Horizontal Rig	9-5/8" 43.5# P-110IC BTC	Int. Casing Tully LS Hamilton Cherry Valley Marcellus Shale Onondaga Ls Oriskany Sandstone Salina Group Vernon Shale	2158 6216 6245 6354 6356 6390 6619 7203 7958	2158	AIR	15.4ppg to surface 936sx w/ 30% OH excess	12" Air Hammer Totoco every 400ft	MWD surveys Mud Logger - 90 ft samples	Hammer bit w/ full face diamond Test casing to 1000psi	PU cleanout assembly, dress plug, displace to 13.0ppg SOB, PU Curve BHA, time drill / KO cement plug. Expect Seepage in curve
8.5" Curve/Lateral	Horizontal Rig	5-1/2" 23# P110ICY TSH Wedge 563	Int. Casing Utica Shale Point Pleasant Formation Curve LP TARGET Production Casing	9542 11042 11395	9542		14.6ppg TOC >= 200' Above 9.625 shoe 4321sx w/ 15% OH excess	6.75" PDM & MWD 2.38" ADJ Bend (10" Build DLS)	MWD Surveys Mud Logger - 30 ft samples (Curve) 90 ft samples (Lateral)	PDC 5 - 25 WOB 100 - 120 RPM 450 - 500 GPM	Geosteering

8.5 Hole - Cemented Long String 5-1/2" 23# P110ICY TSH Wedge 563

Lateral Targets

Landing Point
11395 TVD
11819 MD

89.5 Inc
1.45 Az

10770 ft
Lateral Length

89.5 Inc
1.45 Az

Total Depth 11395
TVD 22589 TD

Handwritten signature and date:
12/19/18

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SHL is located on topo map 2,195 feet south of Latitude: 39° 57' 30"
 BHL is located on topo map 11,732 feet south of Latitude: 39° 57' 30"

Sheffler & Company, Inc.
 ENGINEERING • SURVEYING

1712 Mount Nebo Road Phone: 412-219-4509
 Sewickley, PA 15143 Email: Info@shefflerCo.com

SHL is located on topo map 2,224 feet west of Longitude: 80° 37' 30"
 BHL is located on topo map 7,745 feet west of Longitude: 80° 35' 00"



LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- PRIVATE WATER WELL
- SPRING LOCATION
- LEASED NUMBER BASED ON ATTACHED WW6A1
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- UNIT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/POND/WATERWAY
- ROAD
- FORCE POOLED PARCEL

WELLS WITHIN 3000'
 SIX (6) WELLS WITHIN 3000'

MONUMENT REFERENCE TABLE

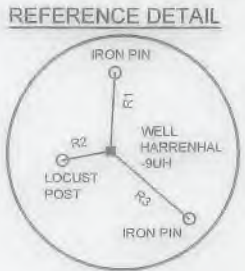
LINE NO.	BEARING	DISTANCE
R1	S3°05'58"W	400.83'
R2	N79°26'18"E	258.46'
R3	N49°16'04"W	539.90'
R4	N79°26'18"E	258.46'
R5	N77°47'34"W	1288.84'

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83
 N: 4422528.363(m)
 E: 531354.537(m)
 NAD27, VV NORTH
 N: 530946.278(ft)
 E: 1682330.782(ft)
 LAT/LON - NAD83
 LAT: N39.9523077
 LON: W80.6329332

APPROXIMATE LANDING POINT
 UTM 17 - NAD83
 N: 4422318.861(m)
 E: 531362.782(m)
 NAD27, VV NORTH
 N: 530258.340(ft)
 E: 1682346.352(ft)
 LAT/LON - NAD83
 LAT: N39.9504198
 LON: W80.6328468

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83
 N: 4419630.629(m)
 E: 533245.102(m)
 NAD27, VV NORTH
 N: 521333.443(ft)
 E: 1688375.619(ft)
 LAT/LON - NAD83
 LAT: N39.9267279
 LON: W80.6109488

TOTAL UNIT
 470.9 ACRES



- NOTES**
- There are no water wells or developed springs within 250' of proposed well
 - There are no existing buildings within 625' 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
 - Mineral and Surface parcel lines are the same

FILE # HARRENHAL-9UH
 DRAWING # HARRENHAL-9UH-R7.DWG
 SCALE: 1"=2500'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX0742: 1343.3'

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.: 21452 L.L.S.: P.S. NO.



(+) 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: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,134.2'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER(1): APP MINERALS LLC ACREAGE(1): 183.31 SURFACE OWNER(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2): 39.39
 OIL & GAS ROYALTY OWNERS(1): APP MINERALS LLC ACREAGE(1): 183.31
 OIL & GAS ROYALTY OWNERS(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2): 39.39

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

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 22,589' ±
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC DESIGNATED AGENT: STEVEN GREEN
 Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000
 City: CANONSBURG State: PA Zip Code: 15317 City: CHARLESTON State: WV Zip Code: 25301

DATE: December 18, 2018 - REV - April 30, 2019
 OPERATOR'S WELL #: HARRENHAL-9UH
 API WELL # 47 051 02091 MOD
 STATE COUNTY PERMIT



DETAIL 1
 SCALE = 1" = 500'

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DETAIL 2
SCALE = 1" = 500'

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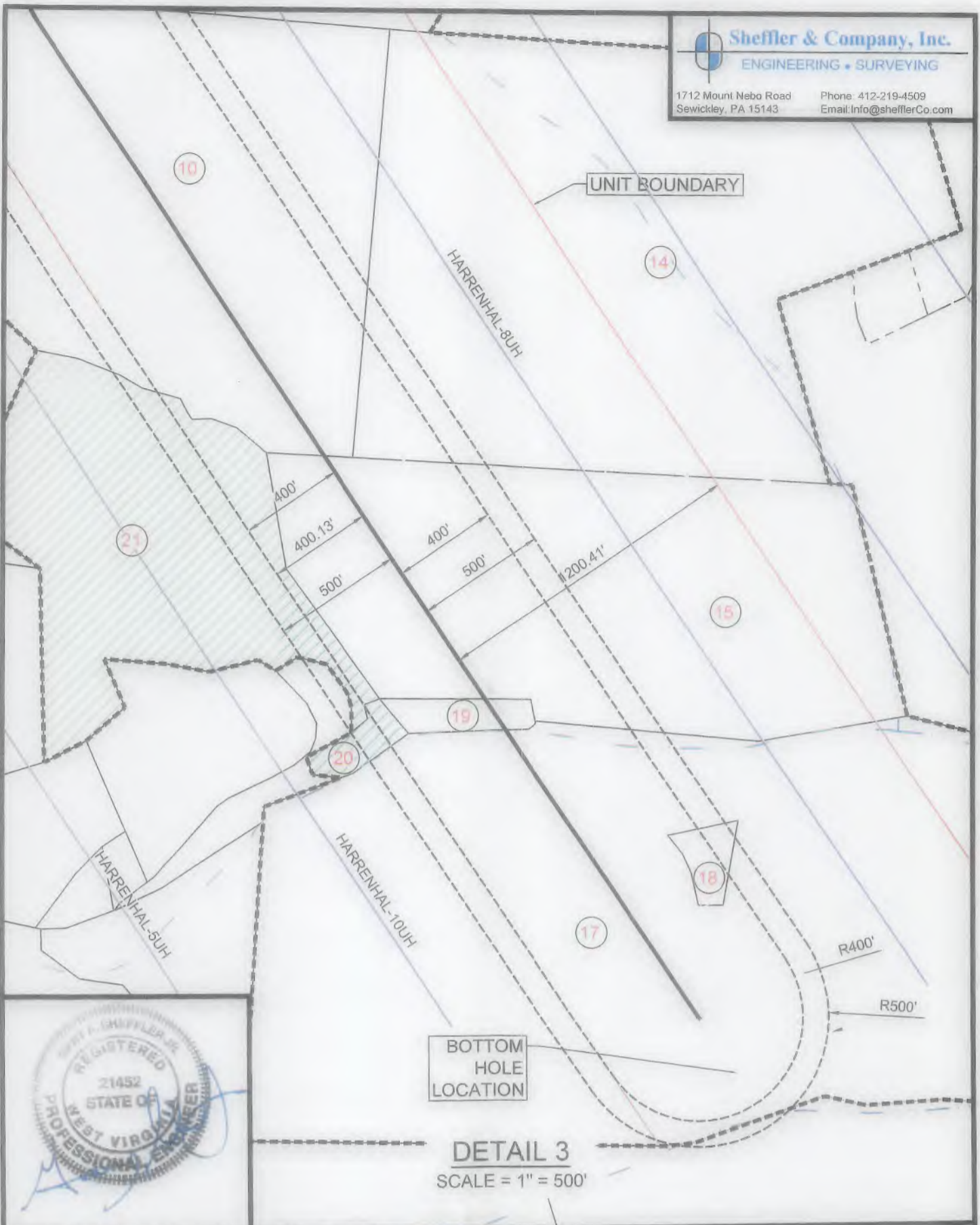
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Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



1712 Mount Nebo Road
Sewickley, PA 15143

Phone: 412-219-4509
Email: Info@shefflerCo.com

TAX MAP NO.
15-0002-0016-0000-0000
ASSESSED ACREAGE: 183.31 ACRES

SURFACE OWNERS:
APP MINERALS LLC

MINERAL OWNERS:
APP MINERALS LLC

TAX MAP NO.
P/O 14-0005-0027-0000-0000
ASSESSED ACREAGE: 76.00 ACRES

SURFACE OWNERS:
RICHARD A. SMITH

MINERAL OWNERS:
RICHARD A. SMITH

TAX MAP NO.
15-0002-0017-0004-0000
ASSESSED ACREAGE: 39.39 ACRES

SURFACE OWNERS:
ERIC G. DAILEY & NORMA C. PAYNE

MINERAL OWNERS:
ERIC G. DAILEY & NORMA C. PAYNE

TAX MAP NO.
15-0002-0015-0000-0000
ASSESSED ACREAGE: 171.32 ACRES

SURFACE OWNERS:
HARRY B. SNYDER
AND ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY TRUST,
DATED DECEMBER 17, 2014

MINERAL OWNERS:
HARRY B. SNYDER AND ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY
TRUST DATED DECEMBER 17, 2014

TAX MAP NO.
15-0002-0017-0003-0000
ASSESSED ACREAGE: 41.85 ACRES

SURFACE OWNERS:
DOVE, WILLIAM E., ET AL.

MINERAL OWNERS:
RESOURCE MINERALS HEADWATER I, LP

TAX MAP NO.
15-0002-0017-0001-0000
ASSESSED ACREAGE: 57.18 ACRES

SURFACE OWNERS:
ECO-VRINDABAN INC.

MINERAL OWNERS:
RESOURCE MINERALS HEADWATER I, LP

TAX MAP NO.
15-0002-0014-0000-0000
ASSESSED ACREAGE: 126.12 ACRES

SURFACE OWNERS:
HARRY B. SNYDER AND
ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY TRUST,
DATED DECEMBER 17, 2014

MINERAL OWNERS:
HARRY B. SNYDER AND ELIZABETH JANE SNYDER,
TRUSTEES OF THE SNYDER FAMILY TRUST DATED DECEMBER 17, 2014

TAX MAP NO.
15-0007-0004-0000-0000
ASSESSED ACREAGE: 35.59 ACRES

SURFACE OWNERS:
KEITH A. & ROBIN S. LOGSDON

MINERAL OWNERS:
KEITH A. LOGSDON AND ROBIN S. LOGSDON

TAX MAP NO.
15-0002-0014-0001-0000
ASSESSED ACREAGE: 11.48 ACRES

SURFACE OWNERS:
KAREN & CHARLES P. HESS

MINERAL OWNERS:
CHARLES P. HESS AND KAREN SNYDER HESS

TAX MAP NO.
15-0007-0019-0000-0000
ASSESSED ACREAGE: 135.05 ACRES

SURFACE OWNERS:
GEETA

MINERAL OWNERS:
ECO-VRINDABAN INC.

TAX MAP NO.
15-0007-0019-0001-0000
ASSESSED ACREAGE: 15.47 ACRES

SURFACE OWNERS:
ISKCON NEW MATHURA VRINDABAN, INC.

MINERAL OWNERS:
ISKCON NEW VRINDABAN, INC.

TAX MAP NO.
15-0002-0013-0002-0000
ASSESSED ACREAGE: 6.76 ACRES

SURFACE OWNERS:
NATASHA C. PARSONS

MINERAL OWNERS:
DONALD HERBERT PARSONS
DONNA GASSAWAY IAMS
KENNETH ROBERT PARSONS
RESOURCE MINERALS HEADWATER I, LP
RICHARD MCKIMMIE AND BERNICE MCKIMMIE,
TRUSTEES OF THE MCKIMMIE FAMILY TRUST,
DATED JANUARY 9, 2015
TEDDY HOWARD PARSONS

TAX MAP NO.
15-0007-0021-0000-0000
ASSESSED ACREAGE: 59.80 ACRES

SURFACE OWNERS:
THOMAS MERLIN RIEDMAN, ET UX.

MINERL OWNERS:
GARY W. STROPE AND RICKEE JO STROPE,
TRUSTEES OF THE STROPE FAMILY TRUST
DATED MARCH 29, 2017

TAX MAP NO.
15-0007-0027-0000-0000
ASSESSED ACREAGE: 76.34 ACRES

SURFACE OWNERS:
COFFIELD, WILLIAM E., ET UX.,
AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

MINERAL OWNERS:
WILLIAM E. & BRENDA K. COFFIELD

(+) 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: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,134.2'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDVILLE, WV

SURFACE OWNER(1): APP MINERALS LLC ACREAGE(1) 183.31 SURFACE OWNER(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2) 39.39

OIL & GAS ROYALTY OWNERS(1): APP MINERALS LLC ACREAGE(1) 183.31

OIL & GAS ROYALTY OWNERS(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2) 39.39

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

TARGET FORMATION: POINT PLEASANT

ESTIMATED DEPTH: TVD: 11,395' ± TMD: 22,589' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC

DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT, SUITE 310

Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317

City CHARLESTON State WV Zip Code 25301



DATE: December 18, 2018 - REV - April 30, 2019

OPERATOR'S WELL #: HARRENHAL-9UH

API WELL # 47 051 02091 MD0
STATE COUNTY PERMIT

TAX MAP NO.
15-0007-0028-0000-0000
ASSESSED ACREAGE: 46.06 ACRES

SURFACE OWNERS:
WILLIAM E. & BRENDA K. COFFIELD

MINERAL OWNERS:
WILLIAM E. COFFIELD AND BRENDA K. COFFIELD

TAX MAP NO.
15-0007-0022-0000-0000
ASSESSED ACREAGE: 48.77 ACRES

SURFACE OWNERS:
BOCK, THOMAS A., ET UX.

MINERAL OWNERS:
DAVID S. CAIN
BRENT E. CAIN
HERMAN D. LANTZ
THOMAS A. & PAMELA L. BOCK
THOMAS D. CAIN

TAX MAP NO.
15-0007-0029-0000-0000
ASSESSED ACREAGE: 114.91 ACRES

SURFACE OWNERS:
FRIED, GABRIEL B.

MINERAL OWNERS:
FRIED, GABRIEL B.

TAX MAP NO.
15-0007-0029-0001-0000
ASSESSED ACREAGE: 1.13 ACRES

SURFACE OWNERS:
FRIED, GABRIEL B.

MINERAL OWNERS:
FRIED, GABRIEL B.

TAX MAP NO.
15-0007-0028-0001-0000
ASSESSED ACREAGE: 1.86 ACRES

SURFACE OWNERS:
DETAMORE, JASON A.

MINERAL OWNERS:
JASON A. DETAMORE

TAX MAP NO.
15-0007-0017-0012-0000
ASSESSED ACREAGE: 1.13 ACRES

SURFACE OWNERS:
DETAMORE, JASON A.

MINERAL OWNERS:
ALEXIA SPRINGER
ANNE C. CLARRY
BARBARA JERMSTAD
BRIAN C. CLARRY
DAVID G. & LEIGH W. PRICE
DAVID P., JR. & KELLY M. MINESINGER
DONALD L. HALL AND W. SUSAN HALL, BY STACY
LYNN ROBERTS, ACTING AS TRUSTEE
ELIZABETH J. HARREL
JAMES ALAN & LONI M. HALL
JOHN C. & SUSAN G. MINESINGER
DAVID ROSS HEIRS
LISA MARIE CLARRY
MARY M. & LARRY G. GILES
ROGER H. & PATRICIA ANN HALL
SCOTT A. & JAN CLARRY
STEPHANIE C. VOSS
JASON A. DETAMORE

TAX MAP NO.
15-0007-0017-0014-0000
ASSESSED ACREAGE: 28.03 ACRES

SURFACE OWNERS:
PRINS, SHIRLEY A.

MINERAL OWNERS:
ALEXIA SPRINGER
ANNE C. CLARRY
BARBARA JERMSTAD
BRIAN C. CLARRY
DAVID G. & LEIGH W. PRICE
DAVID P., JR. & KELLY M. MINESINGER
DAVID ROSS HEIRS
DONALD L. HALL AND W. SUSAN HALL, BY STACY
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JOHN C. & SUSAN G. MINESINGER
LISA MARIE CLARRY
MARY M. & LARRY G. GILES
ROGER H. & PATRICIA ANN HALL
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SHIRLEY A. PRINS
STEPHANIE C. VOSS

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



DATE: December 18, 2018 - REV - April 30, 2019

OPERATOR'S WELL #: HARRENHAL-9UH

API WELL # 47 051 02091 *MBD*
STATE COUNTY PERMIT

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

WATERSHED: WHEELING CREEK - UPPER OHIO RIVER ELEVATION: 1,134.2'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MOUNDVILLE, WV

SURFACE OWNER(1): APP MINERALS LLC ACREAGE(1) 183.31 SURFACE OWNER(2): ERIC G. DAILEY & NORMA C. PAYNE ACREAGE(2) 39.39

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PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT

ESTIMATED DEPTH: TVD: 11,395' ± TMD: 22,589' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS OPERATING, LLC

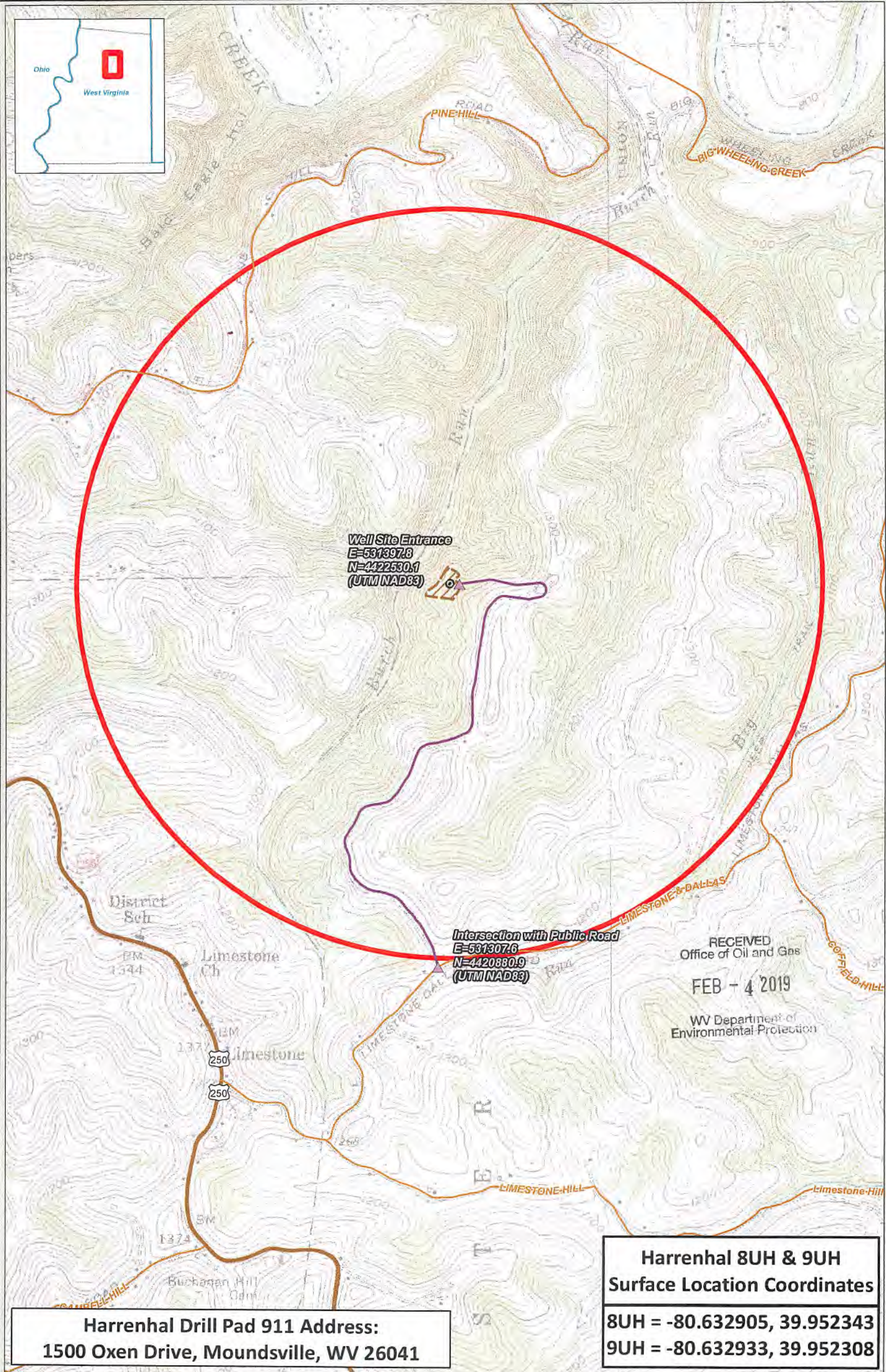
DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT, SUITE 310

Address: 300 SUMMERS ST, SUITE 1000

City CANONSBURG State PA Zip Code 15317

City CHARLESTON State WV Zip Code 25301



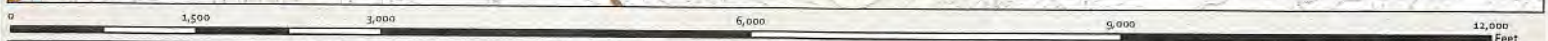
Well Site Entrance
 E=531397.8
 N=4422530.1
 (UTM NAD83)

Intersection with Public Road
 E=531307.6
 N=4420380.9
 (UTM NAD83)

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 Office of Oil and Gas
 FEB - 4 2019
 WV Department of
 Environmental Protection

**Harrenhal 8UH & 9UH
 Surface Location Coordinates**
 8UH = -80.632905, 39.952343
 9UH = -80.632933, 39.952308

**Harrenhal Drill Pad 911 Address:
 1500 Oxen Drive, Moundsville, WV 26041**



Harrenhal 8UH & 9UH - Well Site
 Marshall County
 West Virginia
 Coordinate System: Coordinate System: NAD 1983 UTM Zone 17N
 Projection: Transverse Mercator
 Datum: North American 1983
 Linear Units: Meter
 Map Scale Units: 1:18,000
 1 inch = 1,500 feet
 Map Author: JKS
 Map Date: 2/25/2018

- Well SHL
- Well Pad
- 1 mile Buffer
- Access Rd Intersection
- Access Road
- US Route
- Local Road



SI-0 2091 MOD

WW-6A1
(5/13)

Operator's Well No. Harrenhal-9UH

**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 sheet				

**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

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Office of Oil and Gas
FEB - 4 2019
WV Department of
Environmental Protection

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: American Petroleum Partners Operating, LLC

By: Braulio Silva 

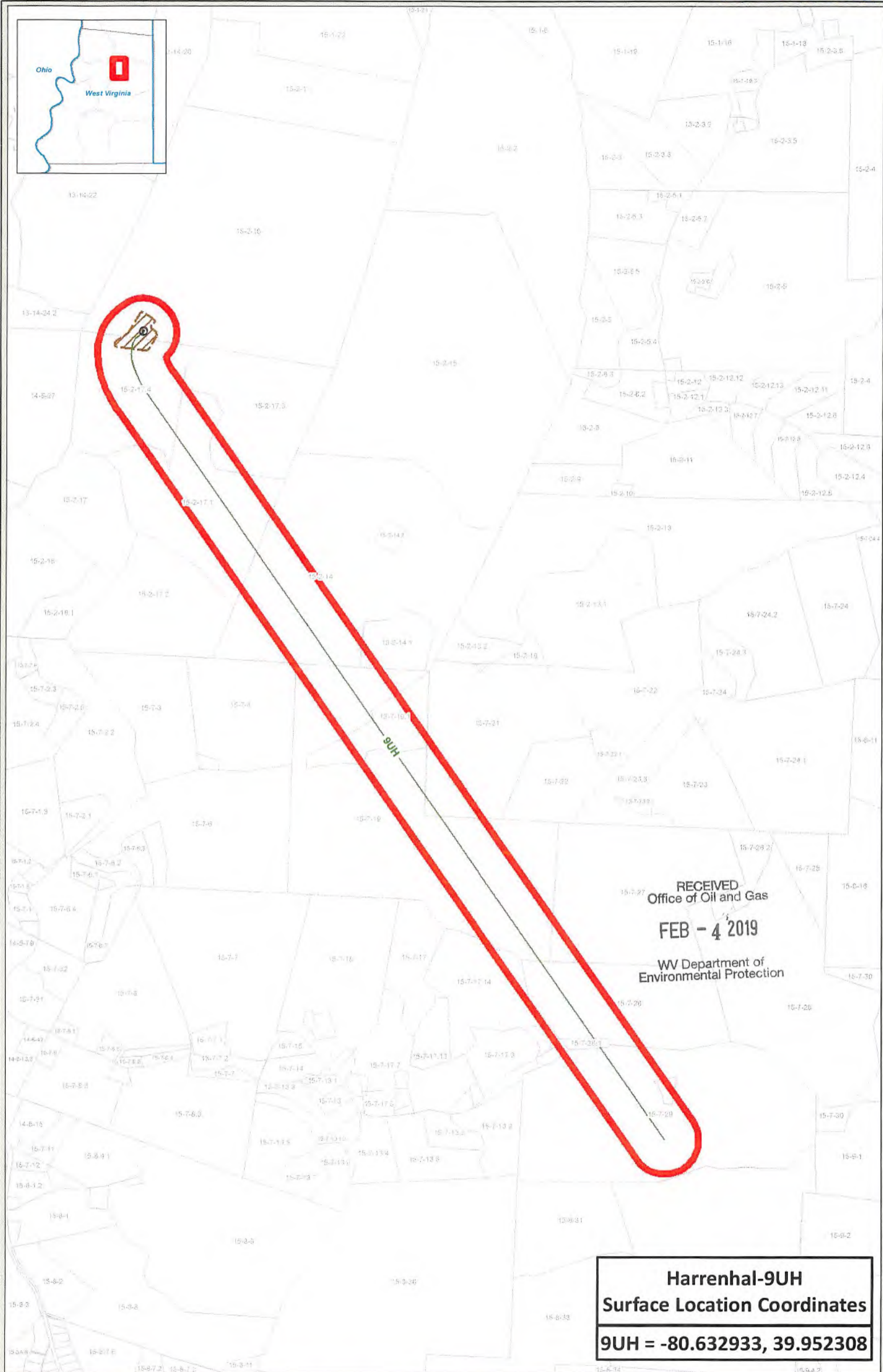
Its: Vice President-Drilling

Harrenhal E-9UH Wellbore Tracts

Map #	Lease #	Lessor	Current Lessee	Royalty	Recording	Parcel
1 ✓	WV-MAR-1192	APP Minerals LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	984-392	15-2-16
3 ✓	WV-MAR-0133	Eric G. Dailey and Norma C. Payne	American Petroleum Partners Operating, LLC	Not less than 1/8	976-477	15-2-17.4
6 ✓	WV-MAR-0035	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not less than 1/8	930-446	15-2-17.1
7 ✓	WV-MAR-0688	Harry B. Snyder and Elizabeth Jane Snyder, Trustees of the Snyder Family Trust dated December 17, 2014	American Petroleum Partners Operating, LLC	Not less than 1/8	741-88	15-2-14
10 ✓	WV-MAR-0073	Eco-Vrindaban Inc.	American Petroleum Partners Operating, LLC	Not less than 1/8	827-144	15-7-19
11 ✓	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not less than 1/8	827-480	15-7-19.1
13 ✓	WV-MAR-0700	Harry B. Snyder and Elizabeth Jane Snyder, Trustees of the Snyder Family Trust dated December 17, 2014	American Petroleum Partners Operating, LLC	Not less than 1/8	748-248	15-7-21
15 ✓	WV-MAR-1164	William E. Coffield and Brenda K. Coffield	American Petroleum Partners Operating, LLC	Not less than 1/8	866-104	15-7-28
17 ✓	WV-MAR-0042	Gabriel B. Fried	American Petroleum Partners Operating, LLC	Not less than 1/8	825-576	15-7-29
19 ✓		Jason A. Detamore	Jason A. Detamore	Not less than 1/8		15-7-28.1*

Note: Several attempts were made on parcel 15-7-28.1 to contact and verify owners to sign leases

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Office of Oil and Gas
FEB - 4 2019
WV Department of
Environmental Protection



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Office of Oil and Gas
FEB - 4 2019
WV Department of
Environmental Protection

Harrenhal-9UH
Surface Location Coordinates
9UH = -80.632933, 39.952308


Harrenhal-9UH - 400' Buffer

Marshall County
West Virginia

Coordinate System: Coordinate System: NAD 1983 UTM Zone 32N
Projection: Transverse Mercator
Datum: North American 1983
Linear Units: Meter

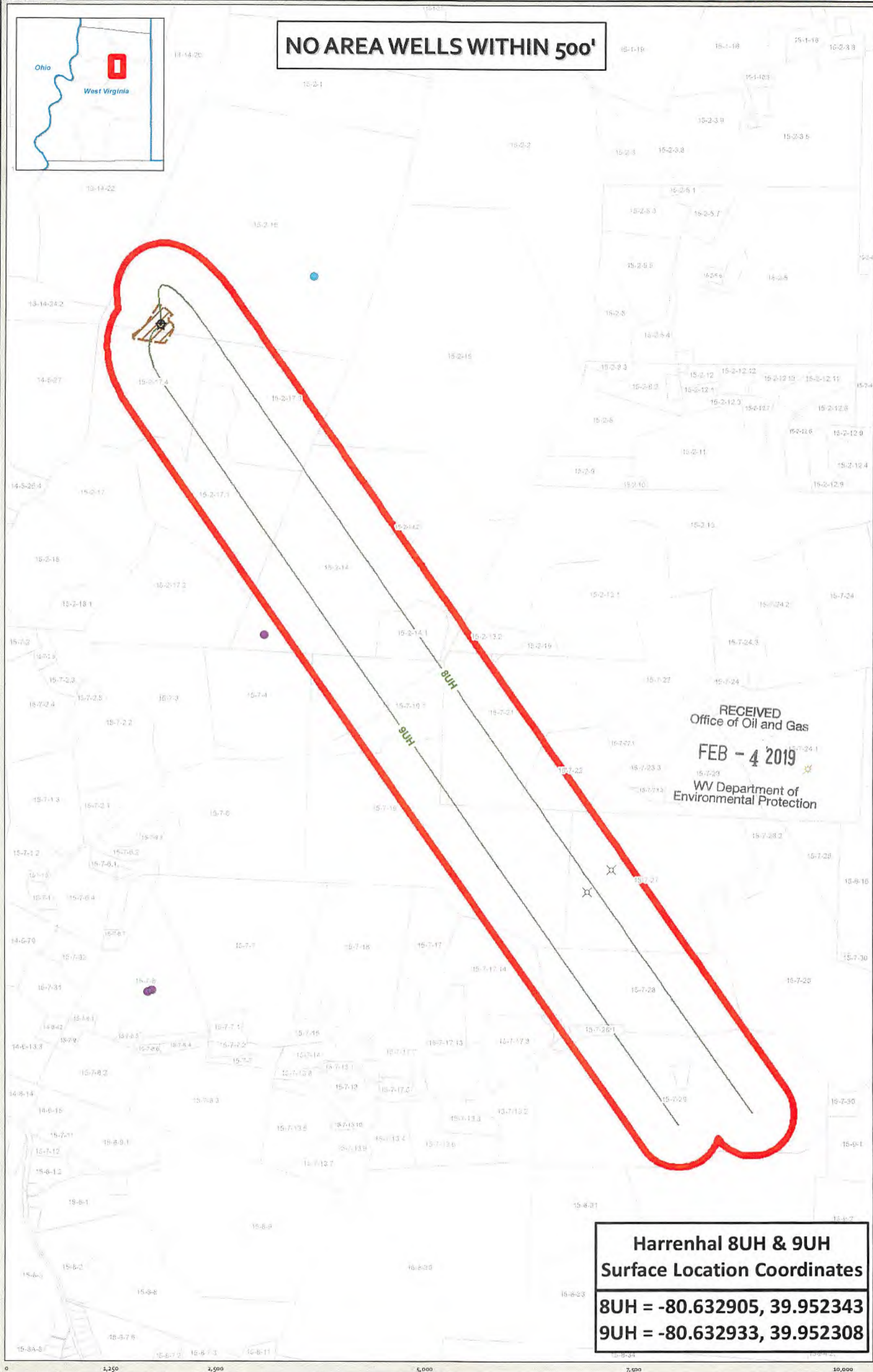
Map Scale Units: 1:15,000
2 inch = 1,250 feet

Map Author: JKS
Map Date: 2/2/2018

-  Well SHL
-  Laterals
-  Parcels
-  Well Pad
-  400' buffer



NO AREA WELLS WITHIN 500'

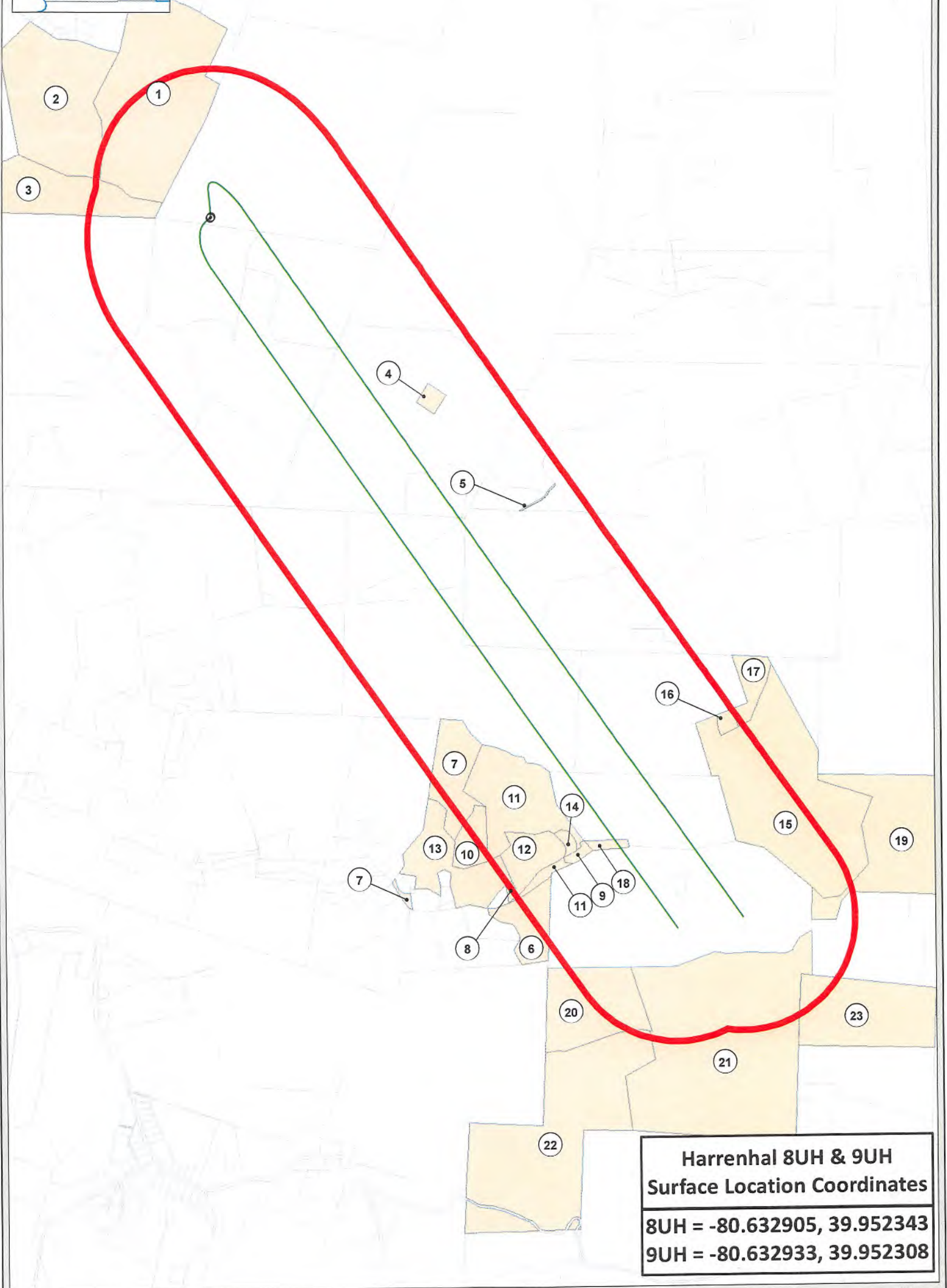


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Office of Oil and Gas
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WV Department of
Environmental Protection

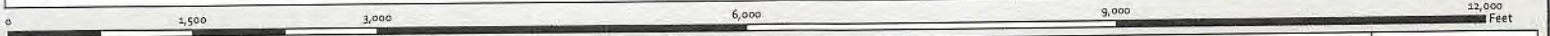
**Harrenhal 8UH & 9UH
Surface Location Coordinates**
8UH = -80.632905, 39.952343
9UH = -80.632933, 39.952308

Harrenhal 8UH & 9UH - All Area Wells		Well SHL	Well Pad	Other	Marcellus Well	Shutin
Marshall County	Coordinate System: NAD 83 UTM Zone 18N Projection: Transverse Mercator Datum: North American 1983 Linear Units: Meter	Laterals	Parcels	Abandoned Well	Permit / Future Use	Utica Permit
West Virginia	Map Scale Units: 1:15,000 3 inch = 1,250 feet	500' buffer		Active Well	Plugged	Utica Well
	Map Author: JKS Map Date: 12/19/2018			Marcellus Permit		





**Harrenhal 8UH & 9UH
Surface Location Coordinates**
 8UH = -80.632905, 39.952343
 9UH = -80.632933, 39.952308



Harrenhal 8UH & 9UH - Offset Operators		Well SHL Laterals Parcels Offset Operators	
Marshall County West Virginia	Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983 Linear Units: Meter		

**American Petroleum Partners Operating, LLC:
Harrenhal E - Offset Operators List**

Map Index	Owner/Operator	Address	Parcel
1	SWN Production Company, LLC, Equinor USA Onshore Properties Inc., Pelican Energy, LLC	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730 717 Texas Street, Suite 3100, Houston, TX 77002	13-14-22
2	SWN Production Company, LLC, Equinor USA Onshore Properties Inc., Pelican Energy, LLC	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	13-14-23
3	SWN Production Company, LLC, Equinor USA Onshore Properties Inc., Pelican Energy, LLC	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730 717 Texas Street, Suite 3100, Houston, TX 77002	13-14-24.2
4	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-2-14.2
5	West Virginia Department of Transportation, Division of Highways	1900 Kanawha Blvd, East Building 5, Room 820, Charleston, WV 25305	15-2-19(B)
6	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-13.2
7	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17
8	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.10
9	Jason A. Detamore; Chevron U.S.A. INC.; David Ross Heirs	2025 Navy Street, Santa Monica, CA 90405; 700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.12
10	Deborah Tsacrios; Chevron U.S.A. INC.; David Ross Heirs	188 Heavens Ln., Moundsville, WV 26041; 700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.13
11	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.14
12	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.3
13	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.7
14	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.8
15	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-26
16	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-26.1
17	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-26.2
18	Jason A. Detamore	2025 Navy Street, Santa Monica, CA 90405	15-7-28.1
19	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-30

20	SWN Production Company, LLC, Equinor USA Onshore Properties Inc.	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	15-8-31
21	Anne McCombs Wellman	Unknown Address	15-8-32
21	Amanda Blackwell	Unknown Address	15-8-32
21	Curtis Fitzsimmons	Unknown Address	15-8-32
21	Unknown heirs of Evelyn G. McCombs	Unknown Address	15-8-32
21	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-8-32
21	SWN Production Company, LLC, Equinor USA Onshore Properties Inc.	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	15-8-32
22	SWN Production Company, LLC, Equinor USA Onshore Properties Inc.	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	15-8-33
23	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-9-2

Note: Multiple attempts were made to locate an accurate address for the David Ross Heirs (parcels 15-7-13.2, 15-7-17, 15-7-17.10, 15-7-17.12, 15-7-17.13, 15-7-17.14, 15-7-17.3, 15-7-17.7 & 15-7-17.8). Searches included white pages, true people search, google, assessor's office, recorder's office, etc. Our due dilligence was never able to locate an accurate and updated address for said David Ross Heirs.

Note: Multiple attempts were made to locate accurate addresses for Amanda Blackwell, Curtis Fitzsimmons, Anne McCombs Wellman & the Heirs of Evelyn G. McCombs (all said interests covering parcel 15-8-32). Searches included white pages, true people search, google, assessor's office, recorder's office, etc. Our due dilligence was never able to locate accurate and updated addresses for said interests.



 west virginia department of environmental protection

Oil and Gas Conservation Commission
 601 57th Street SE, Charleston, WV 25304
 304-926-0499 Ext 1274

Barry K. Lay, Chairman
 dep.wv.gov

February 6, 2019

Pelican Energy, LLC
 717 Texas Street Ste 3100
 Houston TX 77002

91 7199 9991 7039 1715 5053

RE: Intentional Deviation of New Deep Well
 American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

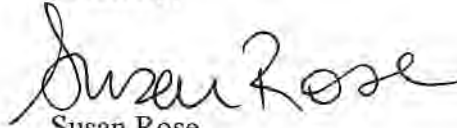
Dear Sir:

Please be advised that American Petroleum Partners Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate new deep wells. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed wells. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commission's granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

A copy of the location plat is enclosed for your review. If no objection(s) are received within ten 10 days from the date of delivery, the application will be processed in the normal manner.

If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,


 Susan Rose
 Administrator

encl:



51-02091400

February 12, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: **9171 9999 9170 3917 1550 53**.



Item Details

Status:	Delivered, To Agent
Status Date / Time:	February 11, 2019, 12:56 pm
Location:	HOUSTON, TX 77002
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™ Return Receipt Electronic

Shipment Details

Weight: 3lb, 1.7oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004



 west virginia department of environmental protection

Oil and Gas Conservation Commission
 601 57th Street SE, Charleston, WV 25304
 304-926-0499 Ext 1274

Barry K. Lay, Chairman
 dep.wv.gov

February 6, 2019

Equinor USA Onshore Properties, Inc.
 6300 Bridge Point Parkway Bldg 2 Ste 100
 Austin TX 78730

91 7199 9991 7039 1715 5046

RE: Intentional Deviation of New Deep Well
 American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

Dear Sir:

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Sincerely,

Susan Rose
 Administrator

encl:



51-02091400

February 12, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number:
9171 9999 9170 3917 1550 46.


Item Details

Status:	Delivered, Front Desk/Reception/Mail Room
Status Date / Time:	February 11, 2019, 11:34 am
Location:	AUSTIN, TX 78730
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™ Return Receipt Electronic

Shipment Details

Weight: 3lb, 2.3oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	6310 Bridgeway #2-100

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004



 west virginia department of environmental protection

Oil and Gas Conservation Commission
 601 57th Street SE, Charleston, WV 25304
 304-926-0499 Ext 1274

Barry K. Lay, Chairman
 dep.wv.gov

February 6, 2019

Chevron USA Inc.
 700 Cherrington Parkway
 Coraopolis PA 15108

91 7199 9991 7039 1698 5507

RE: Intentional Deviation of New Deep Well
 American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

Dear Sir:

Please be advised that American Petroleum Partners Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate new deep wells. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed wells. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commission's granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

A copy of the location plat is enclosed for your review. If no objection(s) are received within ten 10 days from the date of delivery, the application will be processed in the normal manner.

If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

Susan Rose
 Administrator

encl:



51-02091 Mod

February 11, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: **9171 9999 9170 3916 9855 07.**

Item Details

Status:	Delivered, Left with Individual
Status Date / Time:	February 8, 2019, 1:25 pm
Location:	CORAOPOLIS, PA 15108
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™
	Return Receipt Electronic

Shipment Details

Weight: 3lb, 1.3oz

Recipient Signature

Signature of Recipient:	<table border="1"> <tr> <td style="font-size: small;">Signature</td> <td>X</td> <td><i>Susan Maloney</i></td> </tr> <tr> <td style="font-size: small;">Print Name</td> <td></td> <td></td> </tr> </table>	Signature	X	<i>Susan Maloney</i>	Print Name		
Signature	X	<i>Susan Maloney</i>					
Print Name							
Address of Recipient:	<table border="1"> <tr> <td style="font-size: small;">Delivery Address</td> <td><i>700 ...</i></td> </tr> </table>	Delivery Address	<i>700 ...</i>				
Delivery Address	<i>700 ...</i>						

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-926-0499 Ext 1274

Barry K. Lay, Chairman
dep.wv.gov

February 6, 2019

SWN Production Company, LLC
10000 Energy Drive
Spring TX 77389

91 7199 9991 7039 1698 5491

RE: Intentional Deviation of New Deep Well
American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

Dear Sir:

Please be advised that American Petroleum Partners, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate new deep wells. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants’ intent to deviate the proposed wells. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an “offset operator”) to the proposed well. Any offset operator has ten days to object to the Commission’s granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

Susan Rose
Susan Rose
Administrator

encl:

51-02091 H00



February 11, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number:
9171 9999 9170 3916 9854 91.

Item Details

Status:	Delivered, Front Desk/Reception/Mail Room
Status Date / Time:	February 8, 2019, 11:31 am
Location:	MORGANTOWN, WV 26508
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™ Return Receipt Electronic

Shipment Details

Weight: 3lb, 2.4oz

Recipient Signature

<p>Signature of Recipient: <i>H. Miller</i></p> <p>Address of Recipient: <i>1300 Fort Pierpont # 201</i></p>
--

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004



 west virginia department of environmental protection

Oil and Gas Conservation Commission
 601 57th Street SE, Charleston, WV 25304
 304-926-0499 Ext 1274

Barry K. Lay, Chairman
 dep.wv.gov

February 6, 2019

West Virginia Department of Transportation
 Division of Highways
 1900 Kanawha Blvd East Bldg 5 Room 820
 Charleston WV 25305

 91 7199 9991 7039 1715 5015

RE: Intentional Deviation of New Deep Well
 American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

Dear Sir:

Please be advised that American Petroleum Partners Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate new deep wells. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed wells. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commission's granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

Susan Rose
 Administrator

encl:

SI-02891A8P



February 11, 2019

Dear Susan Rose:

The following is in response to your request for proof of delivery on your item with the tracking number: **9171 9999 9170 3917 1550 15.**

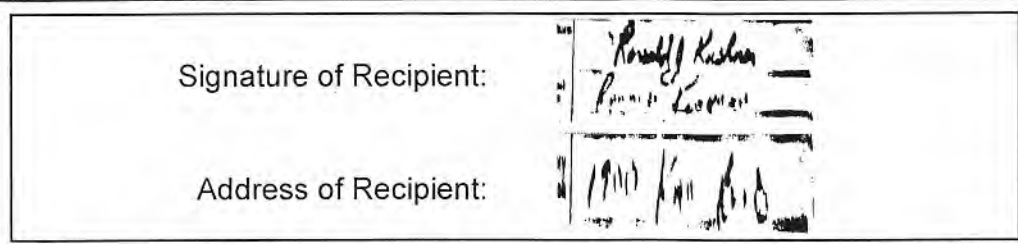
Item Details

Status:	Delivered, To Agent
Status Date / Time:	February 7, 2019, 5:24 am
Location:	CHARLESTON, WV 25301
Postal Product:	First-Class Mail®
Extra Services:	Certified Mail™
	Return Receipt Electronic

Shipment Details

Weight: 3lb, 2.4oz

Recipient Signature



Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
 United States Postal Service®
 475 L'Enfant Plaza SW
 Washington, D.C. 20260-0004



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-926-0499 Ext 1274

Barry K. Lay, Chairman
dep.wv.gov

February 6, 2019

Jason A. Detamore
2025 Navy Street
Santa Monica CA 90405

REC'D 5171 1715 5039
FEB 05 11 17 AM '19

RE: Intentional Deviation of New Deep Well
American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

Dear Sir:

Please be advised that American Petroleum Partners Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate new deep wells. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed wells. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commission's granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

Susan Rose
Administrator

encl:

SI-02091
M00

USPS Tracking®

FAQs > (<https://www.usps.com/faqs/uspstracking-faqs.htm>)

Track Another Package +

Tracking Number: 9171999991703917155039

Remove X

The delivery status of your item has not been updated as of February 12, 2019, 10:37 pm. We apologize that it may arrive later than expected.

Alert

February 12, 2019 at 10:37 pm
Awaiting Delivery Scan

Get Updates ∨

Feedback

Text & Email Updates ∨

Return Receipt Electronic ∨

Tracking History ^

February 12, 2019, 10:37 pm
Awaiting Delivery Scan

The delivery status of your item has not been updated as of February 12, 2019, 10:37 pm. We apologize that it may arrive later than expected.

February 12, 2019
In Transit to Next Facility

SI-02091100

February 12, 2019, 8:37 am
Out for Delivery
SANTA MONICA, CA 90405

February 12, 2019, 8:27 am
Sorting Complete
SANTA MONICA, CA 90405

February 12, 2019, 7:21 am
Arrived at Unit
SANTA MONICA, CA 90401

February 10, 2019, 5:19 pm
Departed USPS Regional Destination Facility
LOS ANGELES CA DISTRIBUTION CENTER

February 9, 2019, 1:27 pm
Arrived at USPS Regional Destination Facility
LOS ANGELES CA DISTRIBUTION CENTER

February 7, 2019, 4:41 am
Departed USPS Regional Facility
CHARLESTON WV PROCESSING CENTER

February 6, 2019, 9:27 pm
Arrived at USPS Regional Origin Facility
CHARLESTON WV PROCESSING CENTER

February 6, 2019, 8:12 pm
Accepted at USPS Origin Facility
CHARLESTON, WV 25311

February 6, 2019
Pre-Shipment Info Sent to USPS, USPS Awaiting Item

Feedback



 west virginia department of environmental protection

Oil and Gas Conservation Commission
 601 57th Street SE, Charleston, WV 25304
 304-926-0499 Ext 1274

Barry K. Lay, Chairman
 dep.wv.gov

February 6, 2019

Deborah Tsacrios
 188 Heavens Ln
 Moundsville WV 26041

91 7199 9991 7039 1715 5022

RE: Intentional Deviation of New Deep Well
 American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

Dear Ma'am:

Please be advised that American Petroleum Partners Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate new deep wells. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed wells. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commission's granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

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If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

A handwritten signature in black ink that reads "Susan Rose".

Susan Rose
 Administrator

encl:

51-02091400



FAQs > (<https://www.usps.com/faqs/uspstracking-faqs.htm>)

Track Another Package +

Tracking Number: 9171999991703917155022

Remove X

This is a reminder to arrange for redelivery of your item before February 22, 2019 or your item will be returned on February 23, 2019. You may arrange redelivery by using the Schedule a Redelivery feature on this page or may pick up the item at the Post Office indicated on the notice.

On Time

Delivery Attempt: Action Needed

Reminder to Schedule Redelivery of your item before February 22, 2019

Schedule Redelivery ∨

- Text & Email Updates** ∨
- Schedule Redelivery** ∨
- Return Receipt Electronic** ∨
- Tracking History** ^

Reminder to Schedule Redelivery of your item before February 22, 2019

This is a reminder to arrange for redelivery of your item before February 22, 2019 or your item will be returned on February 23, 2019. You may arrange redelivery

Feedback

SI-02091 MOP

by using the Schedule a Redelivery feature on this page or may pick up the item at the Post Office indicated on the notice.

February 8, 2019, 11:39 am
Notice Left (No Authorized Recipient Available)
MOUNDSVILLE, WV 26041

February 8, 2019, 7:20 am
Arrived at Unit
MOUNDSVILLE, WV 26041

February 7, 2019, 8:15 pm
Departed USPS Regional Facility
PITTSBURGH PA DISTRIBUTION CENTER

February 7, 2019, 9:11 am
Arrived at USPS Regional Destination Facility
PITTSBURGH PA DISTRIBUTION CENTER

February 7, 2019, 4:41 am
Departed USPS Regional Facility
CHARLESTON WV PROCESSING CENTER

February 6, 2019, 9:27 pm
Arrived at USPS Regional Origin Facility
CHARLESTON WV PROCESSING CENTER

February 6, 2019, 8:12 pm
Accepted at USPS Origin Facility
CHARLESTON, WV 25311

February 6, 2019
Pre-Shipment Info Sent to USPS, USPS Awaiting Item

Feedback



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-926-0499 Ext 1274

Barry K. Lay, Chairman
dep.wv.gov

February 6, 2019

Deborah Tsacrios
188 Heavens Ln
Moundsville WV 26041

RE: Intentional Deviation of New Deep Well
American Petroleum Partners Operating, LLC – Harrenhal-8UH and Harrenhal-9UH

Dear Ma'am:

Please be advised that American Petroleum Partners Operating, LLC, has applied to the Oil and Gas Conservation Commission for approval to intentionally deviate new deep wells. The Code of State Regulations Title 39 Section 1.4.10 requires that the Commission notify the offset operators of the applicants' intent to deviate the proposed wells. You are receiving this notice because you are listed as an offset operator (unleased mineral owner is also an "offset operator") to the proposed well. Any offset operator has ten days to object to the Commission's granting approval to the proposed deviations. If you file an objection, the Commission will schedule a hearing and you will be notified of the date and time to attend.

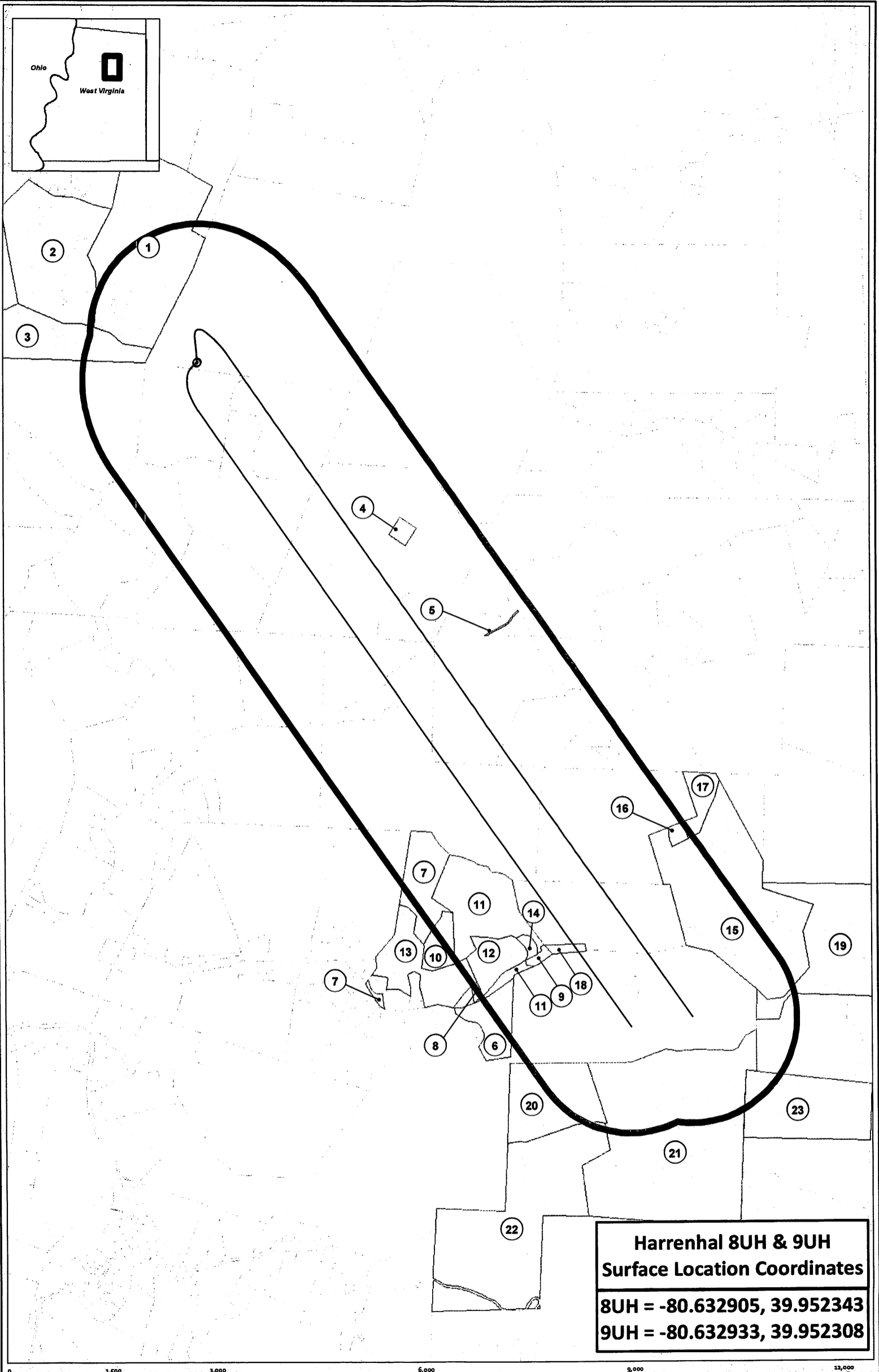
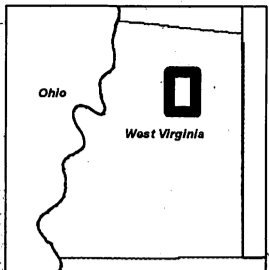
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If you have any questions please call me at (304) 926-0499, extension 1274.

Sincerely,

Susan Rose
Administrator

encl:



**Harrenhal 8UH & 9UH
Surface Location Coordinates**

8UH = -80.632905, 39.952343

9UH = -80.632933, 39.952308

Harrenhal 8UH & 9UH - Offset Operators				<ul style="list-style-type: none"> ⊙ Well SHL — Laterals ▭ Parcels ▭ Offset Operators 	
Marshall County West Virginia	Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983 Linear Units: Meter	Map Scale Units: 1:18,000 1 inch = 1,500 feet	Map Author: JKS Map Date: 2/5/2019		

**American Petroleum Partners Operating, LLC:
Harrenhal E - Offset Operators List**

Map Index	Owner/Operator	Address	Parcel
1	SWN Production Company, LLC, Equinor USA Onshore Properties Inc., Pelican Energy, LLC	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730 717 Texas Street, Suite 3100, Houston, TX 77002	13-14-22
2	SWN Production Company, LLC, Equinor USA Onshore Properties Inc., Pelican Energy, LLC	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	13-14-23
3	SWN Production Company, LLC, Equinor USA Onshore Properties Inc., Pelican Energy, LLC	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730 717 Texas Street, Suite 3100, Houston, TX 77002	13-14-24.2
4	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-2-14.2
5	West Virginia Department of Transportation, Division of Highways	1900 Kanawha Blvd, East Building 5, Room 820, Charleston, WV 25305	15-2-19(B)
6	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-13.2
7	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17
8	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.10
9	Jason A. Detamore; Chevron U.S.A. INC.; David Ross Heirs	2025 Navy Street, Santa Monica, CA 90405; 700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.12
10	Deborah Tsacrios; Chevron U.S.A. INC.; David Ross Heirs	188 Heavens Ln., Moundsville, WV 26041; 700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.13
11	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.14
12	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.3
13	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.7
14	Chevron U.S.A. INC.; David Ross Heirs	700 Cherrington Parkway, Coraopolis, PA 15108; Unknown Address	15-7-17.8
15	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-26
16	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-26.1
17	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-26.2
18	Jason A. Detamore	2025 Navy Street, Santa Monica, CA 90405	15-7-28.1
19	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-7-30

20	SWN Production Company, LLC, Equinor USA Onshore Properties Inc.	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	15-8-31
21	Anne McCombs Wellman	Unknown Address	15-8-32
21	Amanda Blackwell	Unknown Address	15-8-32
21	Curtis Fitzsimmons	Unknown Address	15-8-32
21	Unknown heirs of Evelyn G. McCombs	Unknown Address	15-8-32
21	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-8-32
21	SWN Production Company, LLC, Equinor USA Onshore Properties Inc.	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	15-8-32
22	SWN Production Company, LLC, Equinor USA Onshore Properties Inc.	10000 Energy Drive, Spring, TX 77389; 6300 Bridge Point Parkway, Building 2, Suite 100, Austin, TX 78730	15-8-33
23	Chevron U.S.A. INC.	700 Cherrington Parkway, Coraopolis, PA 15108	15-9-2

Note: Multiple attempts were made to locate an accurate address for the David Ross Heirs (parcels 15-7-13.2, 15-7-17, 15-7-17.10, 15-7-17.12, 15-7-17.13, 15-7-17.14, 15-7-17.3, 15-7-17.7 & 15-7-17.8). Searches included white pages, true people search, google, assessor's office, recorder's office, etc. Our due diligence was never able to locate an accurate and updated address for said David Ross Heirs.

Note: Multiple attempts were made to locate accurate addresses for Amanda Blackwell, Curtis Fitzsimmons, Anne McCombs Wellman & the Heirs of Evelyn G. McCombs (all said interests covering parcel 15-8-32). Searches included white pages, true people search, google, assessor's office, recorder's office, etc. Our due diligence was never able to locate accurate and updated addresses for said interests.

Harrenhal E-9UH 400' Buffer Tracts

Map #	Lease #	Lessor	Current Lessee	Royalty	Recording Information	Parcel
1	WV-MAR-1192	APP Minerals LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	984-392	15-2-16
3	WV-MAR-0133	Eric G. Dailey and Norma C. Payne	American Petroleum Partners Operating, LLC	Not less than 1/8	976-477	15-2-17.1
5	WV-MAR-0035	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not less than 1/8	930-446	15-2-17.1
6	WV-MAR-0035	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not less than 1/8	930-446	15-2-17.1
7	WV-MAR-0688	Harry B. Snyder and Elizabeth Jane Snyder, Trustees of the Snyder Family Trust dated December 17, 2014	American Petroleum Partners Operating, LLC	Not less than 1/8	741-88	15-2-14
8	WV-MAR-0698	Keith A. Logsdon and Robin S. Logsdon	American Petroleum Partners Operating, LLC	Not less than 1/8	664-593; 741-122	15-7-4
9	WV-MAR-0704	Charles P. Hess and Karen Snyder Hess	American Petroleum Partners Operating, LLC	Not less than 1/8	691-555	15-2-14.1
10	WV-MAR-0073	Eco-Vrindaban Inc.	American Petroleum Partners Operating, LLC	Not less than 1/8	827-144	15-7-19
11	WV-MAR-0080	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC	Not less than 1/8	827-480	15-7-19.1
13	WV-MAR-0700	Gary W. Strobe and Rickee J. Strobe, Trustees of the Strobe Family Trust dated March 29, 2017	American Petroleum Partners Operating, LLC	Not less than 1/8	748-248	15-7-21
14	WV-MAR-0728	William E. Coffield and Brenda K. Coffield	American Petroleum Partners Operating, LLC	Not less than 1/8	866-115	15-7-27
15	WV-MAR-1164	William E. Coffield and Brenda K. Coffield	American Petroleum Partners Operating, LLC	Not less than 1/8	866-104	15-7-28

RECEIVED
Office of Oil and Gas
15-2-17.1
FEB - 4 2019

WV Department of
Environmental Protection

03011001-15

17	WV-MAR-0042	Gabriel B. Fried	American Petroleum Partners Operating, LLC	Not less than 1/8	825-576	15-7-29
18	WV-MAR-0042	Gabriel B. Fried	American Petroleum Partners Operating, LLC	Not less than 1/8	974-36	15-7-29.1
19		Jason A. Detamore	Jason A. Detamore	Not less than 1/8		15-7-28.1
20		Alexia Springer	Chevron U.S.A. INC.	Not less than 1/8	777-311	15-7-17.12
20		Anne C. Clarry a/k/a Anne Clarry	Chevron U.S.A. INC.	Not less than 1/8	780-347	15-7-17.12
20		Barbara Jermstad	Chevron U.S.A. INC.	Not less than 1/8	814-351	15-7-17.12
20		Brian C. Clarry a/k/a Brian Clarry	Chevron U.S.A. INC.	Not less than 1/8	780-341	15-7-17.12
20		David G. Price and Leigh W. Price	Chevron U.S.A. INC.	Not less than 1/8	773-56	15-7-17.12
20		David P. Minesinger, Jr. and Kelly M. Minesinger	Chevron U.S.A. INC.	Not less than 1/8	781-71	15-7-17.12
20		Donald L. Hall and W. Susan Hall, by Stacy Lynn Roberts, acting as trustee	Chevron U.S.A. INC.	Not less than 1/8	831-469	15-7-17.12
20		Elizabeth J. Harrel	Chevron U.S.A. INC.	Not less than 1/8	750-408	15-7-17.12
20		James Alan Hall and Loni M. Hall	Chevron U.S.A. INC.	Not less than 1/8	781-64	15-7-17.12
20		John C. Minesinger and Susan G. Minesinger	Chevron U.S.A. INC.	Not less than 1/8	795-231	15-7-17.12
20		David Ross Heirs	David Ross Heirs	Not less than 1/8		15-7-17.12

RECEIVED
 Office of Oil and Gas
 FEB - 4 2019
 WV Department of Environmental Protection

SI-02091 MAR

20	RECEIVED Office of Oil and Gas FEB - 4 2019 WV Department of Environmental Protection	Lisa Marie Clarry a/k/a Lisa Clarry	Chevron U.S.A. INC.	Not less than 1/8	780-335	15-7-17.12
20		Mary M. Giles and Larry G. Giles	Chevron U.S.A. INC.	Not less than 1/8	792-26	15-7-17.12
20		Roger H. Hall and Patricia Ann Hall	Chevron U.S.A. INC.	Not less than 1/8	774-472	15-7-17.12
20		Scott A. Clarry and Jan Clarry	Chevron U.S.A. INC.	Not less than 1/8	774-467	15-7-17.12
20		Stephanie C. Voss f/k/a Stephanie Springer	Chevron U.S.A. INC.	Not less than 1/8	777-305	15-7-17.12
20		Jason A. Detamore	Jason A. Detamore	Not less than 1/8		15-7-17.12
21		Alexia Springer	Chevron U.S.A. INC.	Not less than 1/8	777-311	15-7-17.14
21		Anne C. Clarry a/k/a Anne Clarry	Chevron U.S.A. INC.	Not less than 1/8	780-347	15-7-17.14
21		Barbara Jermstad	Chevron U.S.A. INC.	Not less than 1/8	814-351	15-7-17.14
21		Brian C. Clarry a/k/a Brian Clarry	Chevron U.S.A. INC.	Not less than 1/8	780-341	15-7-17.14
21	David G. Price and Leigh W. Price	Chevron U.S.A. INC.	Not less than 1/8	773-56	15-7-17.14	
21	David P. Minesinger, Jr. and Kelly M. Minesinger	Chevron U.S.A. INC.	Not less than 1/8	781-71	15-7-17.14	
21	David Ross Heirs	David Ross Heirs	Not less than 1/8		15-7-17.14	
21	Donald L. Hall and W. Susan Hall, by Stacy Lynn Roberts, acting as trustee	Chevron U.S.A. INC.	Not less than 1/8	831-469	15-7-17.14	

00716020-15

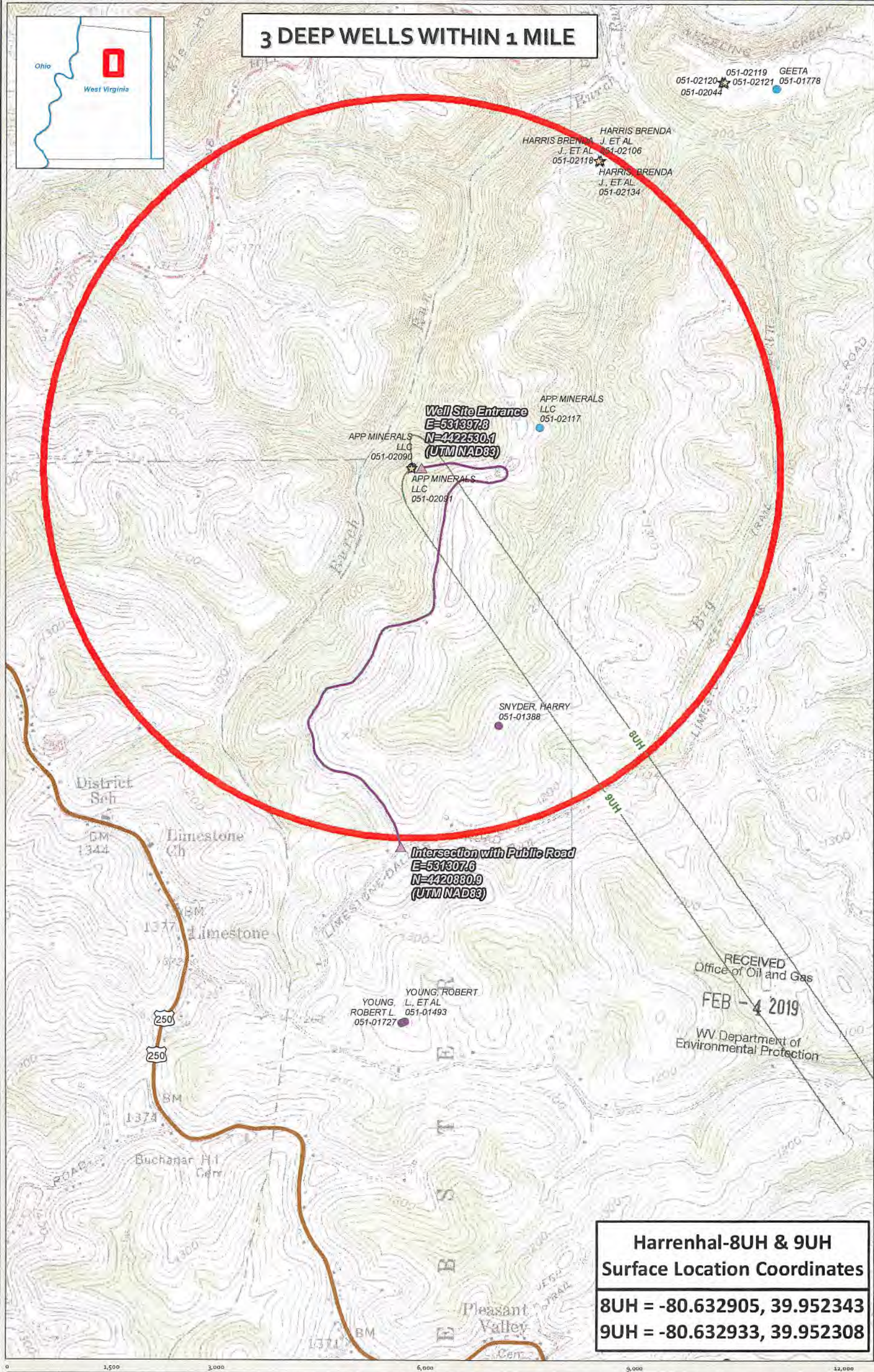
21	RECEIVED Office of Oil and Gas FEB - 4 2019 WV Department of Environmental Protection	Elizabeth J. Harrel	Chevron U.S.A. INC.	Not less than 1/8	750-408	15-7-17.14
21		James Alan Hall and Loni M. Hall	Chevron U.S.A. INC.	Not less than 1/8	781-64	15-7-17.14
21		John C. Minesinger and Susan G. Minesinger	Chevron U.S.A. INC.	Not less than 1/8	795-231	15-7-17.14
21		Lisa Marie Clarry a/k/a Lisa Clarry	Chevron U.S.A. INC.	Not less than 1/8	780-335	15-7-17.14
21		Mary M. Giles and Larry G. Giles	Chevron U.S.A. INC.	Not less than 1/8	792-26	15-7-17.14
21		Roger H. Hall and Patricia Ann Hall	Chevron U.S.A. INC.	Not less than 1/8	774-472	15-7-17.14
21		Scott A. Clarry and Jan Clarry	Chevron U.S.A. INC.	Not less than 1/8	774-467	15-7-17.14
21	WV-MAR-1240	Shirley A. Prins	American Petroleum Partners Operating, LLC	Not less than 1/8	1010-554	15-7-17.14
21		Stephanie C. Voss f/k/a Stephanie Springer	Chevron U.S.A. INC.	Not less than 1/8	777-305	15-7-17.14

Note: The remaining parcels that have no lease # assigned attempts were made to negotiate with the landowners and/or operators to sign a lease or give APP an assignment.

Note: David Ross Heirs - Heirship was run to determine ownership. The ones with addresses unknown were searched in the Marshall County Court House, Estate searches were done both locally and out of state. In addition, obituaries were searched, both local and out of state, genealogy websites and multiple search engines were utilized including ancestry.com, white pages, orbit, along with taking to relatives in an attempt to try to locate the unlocatable heirs/unknown addresses. Attempts were made to contact and verify owners to sign leases.

00X16000-15

3 DEEP WELLS WITHIN 1 MILE



051-02119 GEETA
051-02120 051-02121 051-01778
051-02044

HARRIS BRENDA J. ET AL
051-02106
051-02118
HARRIS BRENDA J. ET AL
051-02134

Well Site Entrance
E=531397.8
N=4422530.1
(UTM NAD83)

APP MINERALS LLC
051-02090

APP MINERALS LLC
051-02091

APP MINERALS LLC
051-02117

SNYDER HARRY
051-01388

Intersection with Public Road
E=531307.6
N=4420880.9
(UTM NAD83)

YOUNG, ROBERT L. ET AL
051-01493
051-01727

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**Harrenhal-8UH & 9UH
Surface Location Coordinates**
8UH = -80.632905, 39.952343
9UH = -80.632933, 39.952308

Harrenhal-8UH & 9UH - Deep Wells 1 Mile

Marshall County West Virginia
Coordinate System: Coordinate System: NAD 1983 UTM Zone 17N
Projection: Transverse Mercator
Datum: North American 1983
Linear Units: Meter
Map Scale Units: 1:18,000
1 inch = 1,500 feet
Map Author: JKS
Map Date: 12/19/2018

- Well SHL
- Marcellus Permit
- ☆ Utica Permit
- Laterals
- Marcellus Well
- ☆ Utica Well
- 1 mile buffer



3 UTICA / PP WELLS WITHIN 3,000'



HARRIS BRENDA
 HARRIS BRENDA J. ET AL
 J. ET AL 051-02106
 051-02118
 HARRIS, BRENDA
 J., ET AL.
 051-02134

APP MINERALS
 LLC
 051-02090
 APP MINERALS
 LLC
 051-02091

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 Environmental Protection

**Harrenhal 8UH & 9UH
 Surface Location Coordinates**
 8UH = -80.632905, 39.952343
 9UH = -80.632933, 39.952308

Harrenhal 8UH & 9UH - Utica/PP 3000'

Marshall County
 West Virginia

Coordinate System: Coordinate System: NAD 1983 UTM Zone 18N
 Projection: Transverse Mercator
 Datum: North American 1983
 Linear Units: Meter

Map Scale Units: 1:12,000
 1 inch = 1,000 feet

Map Author: RKS
 Map Date: 12/19/2018

- Well SHL
- 3000' buffer
- ☆ Utica Permit
- ★ Utica Well





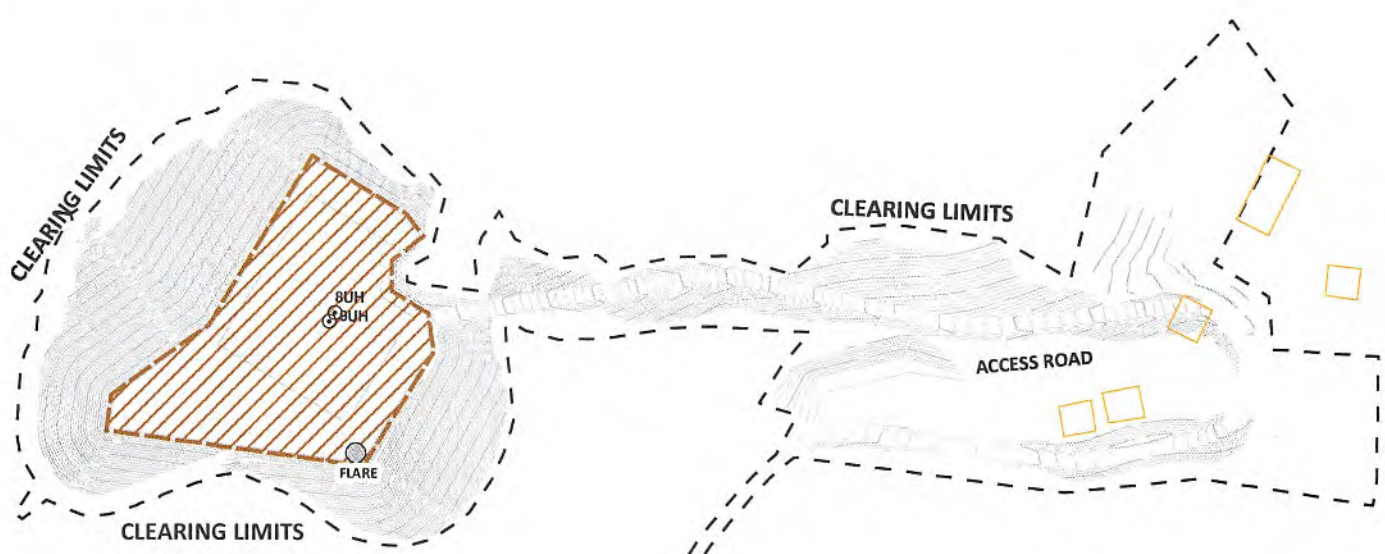
Prevailing Wind →

Prevailing Wind →

Prevailing Wind →

Prevailing Wind →

Prevailing Wind →



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Environmental Protection

**Harrenhal 8UH & 9UH
Surface Location Coordinates**
8UH = -80.632905, 39.952343
9UH = -80.632933, 39.952308



Harrenhal 8UH & 9UH - Plan View

Marshall County
West Virginia

Coordinate System: Coordinate System: NAD 1983 UTM Zone 17N
Projection: Transverse Mercator
Datum: North American 1983
Linear Units: Meter

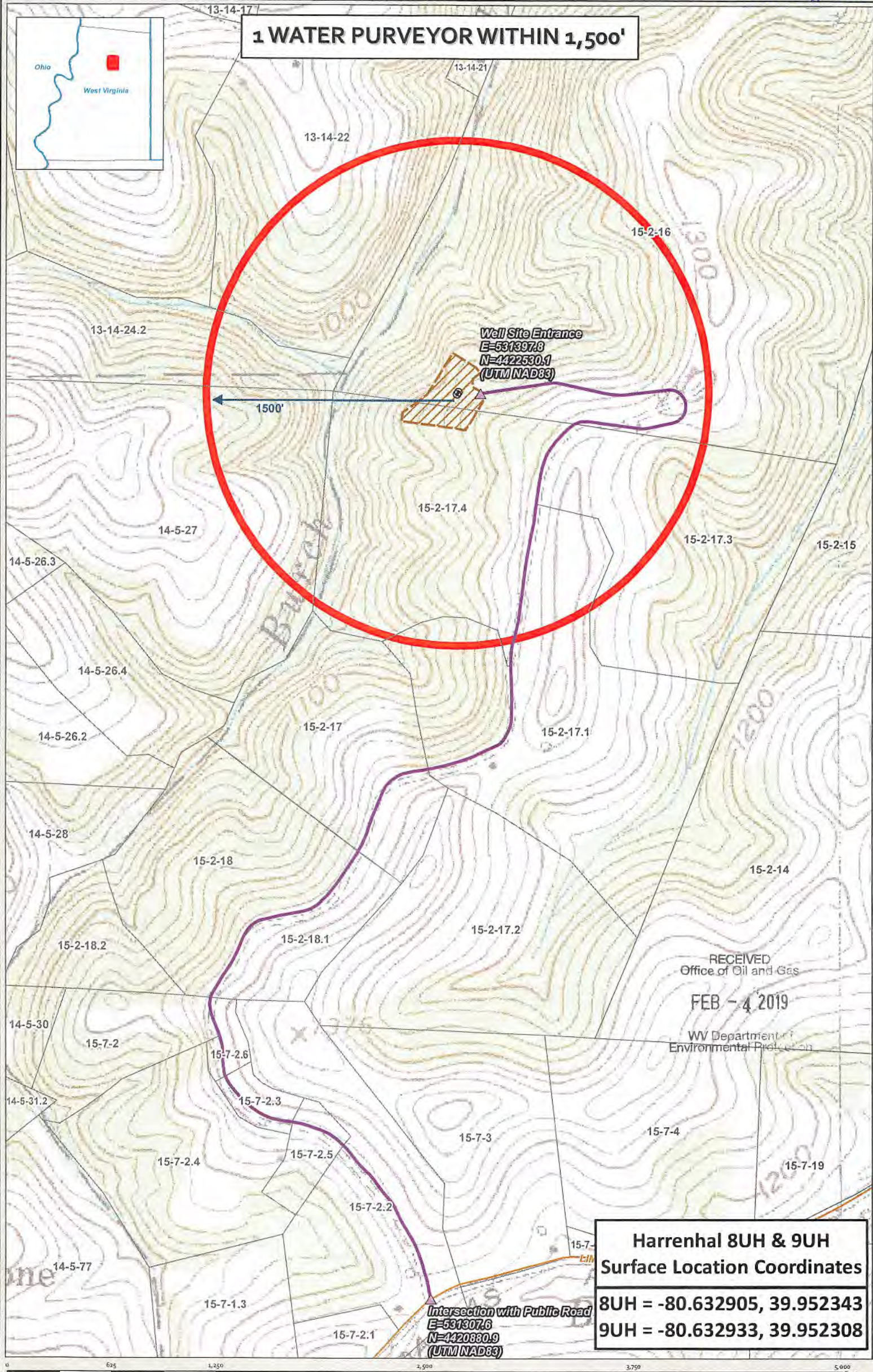
Map Scale Units:
1:3,300
1 inch = 275 feet

Map Author: JKS
Map Date: 12/19/2018

- Well SHL
- Well Pad
- State Route
- Building



1 WATER PURVEYOR WITHIN 1,500'



Well Site Entrance
E=531397.8
N=4422530.1
(UTM NAD83)

1500'

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Environmental Protection

**Harrenhal 8UH & 9UH
Surface Location Coordinates**
8UH = -80.632905, 39.952343
9UH = -80.632933, 39.952308

Intersection with Public Road
E=531307.6
N=4420880.9
(UTM NAD83)

Harrenhal 8UH & 9UH - Water Source

Marshall County
West Virginia
Coordinate System: Coordinate System: NAD 1983 UTM Zone 27N
Projection: Transverse Mercator
Datum: North American 1983
Linear Units: Meter
Map Scale Units: 17,500
1 inch = 525 feet
Map Author: JKS
Map Date: 12/15/2018

- Well SHL
- Well Pad
- Access Rd Intersection
- Access Road
- Parcels
- Water Well
- 1,500' Buffer

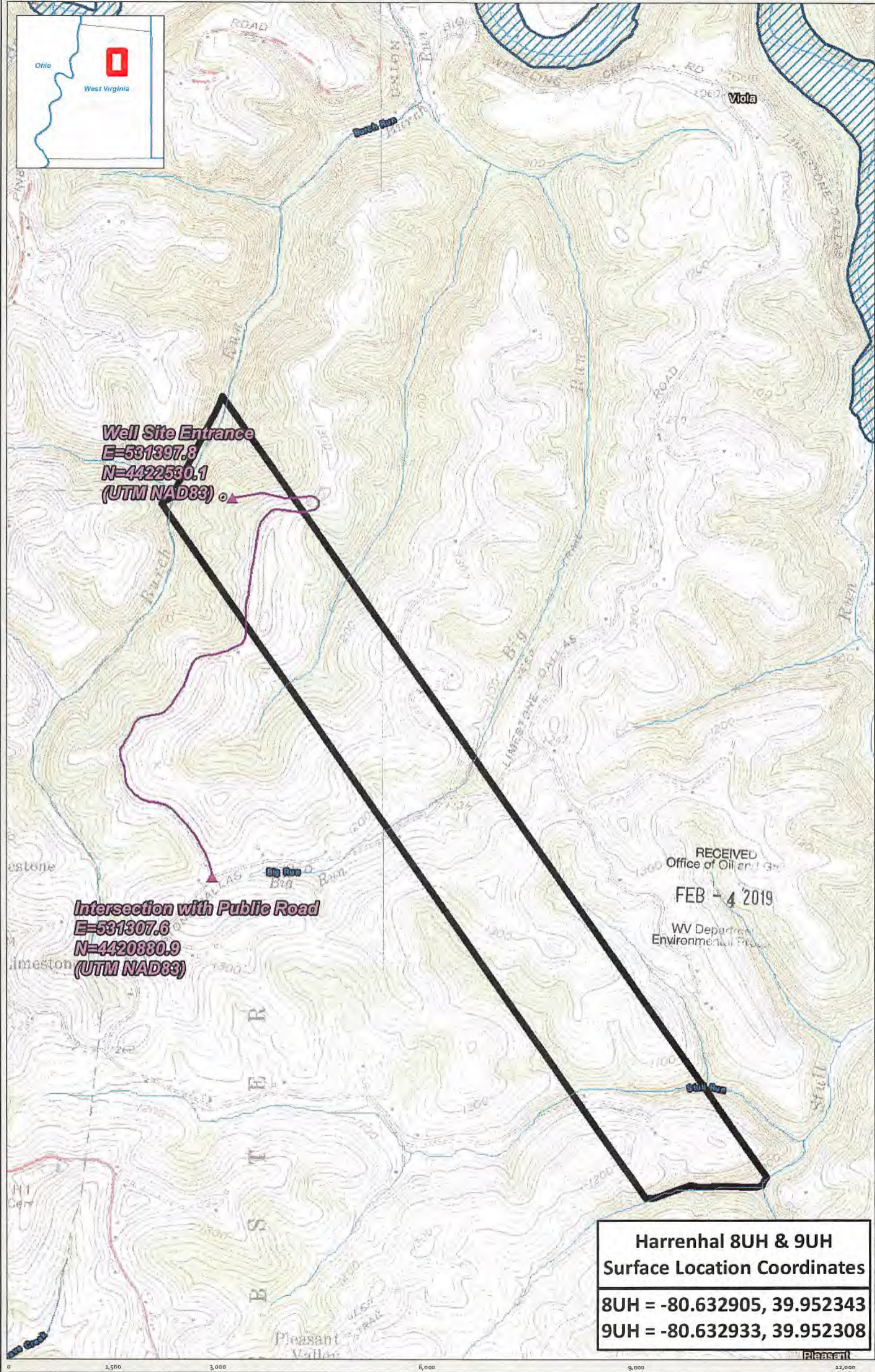




- Church
- Hospital
- Public Building
- School

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Harrenhal 8UH & 9UH
Surface Location Coordinates
 8UH = -80.632905, 39.952343
 9UH = -80.632933, 39.952308

<h3>Harrenhal 8UH & 9UH - Site Evacuation Plan</h3>		<ul style="list-style-type: none"> Well SHL Well Pad 1 mile buffer Access Road 	<ul style="list-style-type: none"> Interstate US Route State Route County Road 	<p>SITE EVACUATION ROUTE DIRECTIONS Harrenhal Well Pad</p> <p>Exit the Pad Site heading East and then South via the Access Road. Travel 1.68 Miles along Access Road to Intersection of Oxen Drive (Access Road) and McCreary's Ridge Rd.</p>	
Marshall County West Virginia	Coordinate System: Coordinate System: NAD 1983 UTM Zone 17N Projection: Transverse Mercator Datum: North American 1983 Linear Units: Meter	Map Scale Units: 1:18,000 1 inch = 1,500 feet	Map Author: JKS Map Date: 11/19/2018		



Well Site Entrance
E=531397.8
N=4422530.1
(UTM NAD83)

Intersection with Public Road
E=531307.6
N=4420880.9
(UTM NAD83)

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 Office of Oil and Gas
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 WV Department
 Environmental Protection

Harrenhal 8UH & 9UH
Surface Location Coordinates
8UH = -80.632905, 39.952343
9UH = -80.632933, 39.952308

Harrenhal 8UH & 9UH - Floodplain

Marshall County
 West Virginia

Coordinate System: Coordinate System: NAD 1983 UTM Zone 32N
 Projection: Transverse Mercator
 Datum: North American 1983
 Linear Units: Meter

Map Scale Units:
 1:18,000
 1 inch = 1,500 feet

Map Author: JKS
 Map Date: 12/19/2018

- ⊙ Well SHL
- ▲ Access Rd Intersection
- Streams
- ◻ Floodplain
- Unit
- Access Road

