09/21/2018



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

Tuesday, September 18, 2018 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 CASTERLY ROCK-2UH 47-051-02018-00-00

Lateral Extension with Deep Well Approval

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.	11
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Cfan for	0

James A. Martin Chief

Operator's Well Number: CASTERLY ROCK-2UH Farm Name: LESLIE B. & LORI D. SCHABER U.S. WELL NUMBER: 47-051-02018-00-00 Horizontal 6A New Drill Date Modification Issued: September 18, 2018

Promoting a healthy environment.

API Number: 51-020182018

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 51-0902 2218

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.



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

August 30, 2018

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

RE: Application for Deep Well Permit – API #47-051-02018

COMPANY: American Petroleum Partners Operating, LLC

FARM: <u>Casterly Rock-2UH</u>

COUNTY: <u>Marshall</u> DISTRICT: <u>Union</u>

QUAD: Moundsville

The deep well review of the application for the above company is <u>Approved to drill to the Trenton for</u> <u>Point Pleasant completion. Pooling Docket No. 266-256</u>

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? None
- 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: *yes, Docket 266-256 Exception Location Hearing, 47-051-02047, 47-051-02046, 47-051-02071, 47-051-02072, and 47-051-02073.
- 4. Provided a plat showing that the proposed location is a distance of <u>400+</u> 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,

user

Susan Rose Administrator

Promoting a healthy environment.

1

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

I) Well Operator: American Petroleum Partne 494521257 Marshall Union Moundsville
Operator ID County District Quadrangle
2) Operator's Well Number: Casterly Rock-2UH (CRN2-UH) Well Pad Name: Casterly Rock
3) Farm Name/Surface Owner: Leslie B. & Lori D. Schaber Public Road Access: State Route 88
4) Elevation, current ground: 1,337.89' Elevation, proposed post-construction: 1311.38
5) Well Type (a) Gas <u>×</u> Oil Underground Storage
Other
(b)If Gas Shallow Deep X
Horizontal ×
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 11,212 150' thick / 10,000 psi or .89 psi per foo
8) Proposed Total Vertical Depth: 11,595' pilot hole into the Trenton-Plug back, land and TD lateral in Point Pleasan
9) Formation at Total Vertical Depth: Trenton
10) Proposed Total Measured Depth: 21,549'
11) Proposed Horizontal Leg Length: 9,613'
12) Approximate Fresh Water Strata Depths: 130', 850'
13) Method to Determine Fresh Water Depths:
14) Approximate Saltwater Depths: Na
15) Approximate Coal Seam Depths: <u>625', 825'</u>
16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated. Mine maps attached.
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes X No
(a) If Yes, provide Mine Info: Name: The Ohio County Mine
Depth: 625' - 825'
Seam: Sewickley and Pittsburgh
Owner: Murray American Energy & Consolidation Coal Company

API NO. 47-051 - 020189/24/2018 OPERATOR WELL NO. Casterly Ro Well Pad Name: Casterly Rock

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS	
Conductor	30"	New	LS	81.3#	60'	60'	CTS	
Fresh Water	20"	New	J-55	94#	900'	900'	ur 521 sx w/30	CT
Coal	13 3/8'	New	J-55	54.5#	2111"	2111'	r 556 sx W/30'	CT
Intermediate	9 5/8"	New	ICP-11	40#	9712'	9712'	rf 936 sx w/30'	CI
Production	5 1/2"	New	ICP-11	23#	21,549'	21,549'	C >=200' abov∉	
Tubing	2 7/8"	New	J-55	6.5#	11,400	11,400'		
Liners								

84 4/5/18

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	36"		300		Type 1	2.38 tail 521 s
Fresh Water	20"	24"	.438	2110	400	Class A	.38 Tail 556 s
Coal	13 3/8"	17.5"	.380	2730	688	Class A	2.38 Tail 556 s
Intermediate	9 5/8"	12.38"	.395	7870	3166	Class A	1.28 Tail 936 s
Production	5 1/2"	8.75"	.415	16,510	13000	Class H	.27 Tail 4714
Tubing	2 7/8"	5.14"	.217	10570	8000		
Liners			-				

PACKERS

Kind:	
Sizes:	Office of Oil and Gas
Depths Set:	JUN 1 5 2018

WV Department of Environmental Protection WW-6B (10/14) 19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth (Pilot Hole) into the Trenton at an estimated Total vertical depth of approximately 11,595', plug back above the Point Pleasant by placing two 800' cement plugs to KOP. Drill and land well in the Point Pleasant to drill horizontal leg and TD in the same 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 engineerig 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): 22.5 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.9 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 (antisettiing, antifoam, fluid loss retarder, sait, viscosifer) & 15.4 Class A tail with additives (antisettling, antifoam, fluid loss retarder, sait, 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, antisettling, extender, dispersant) 15% excess TOC>=200' above 9.625" shoe.

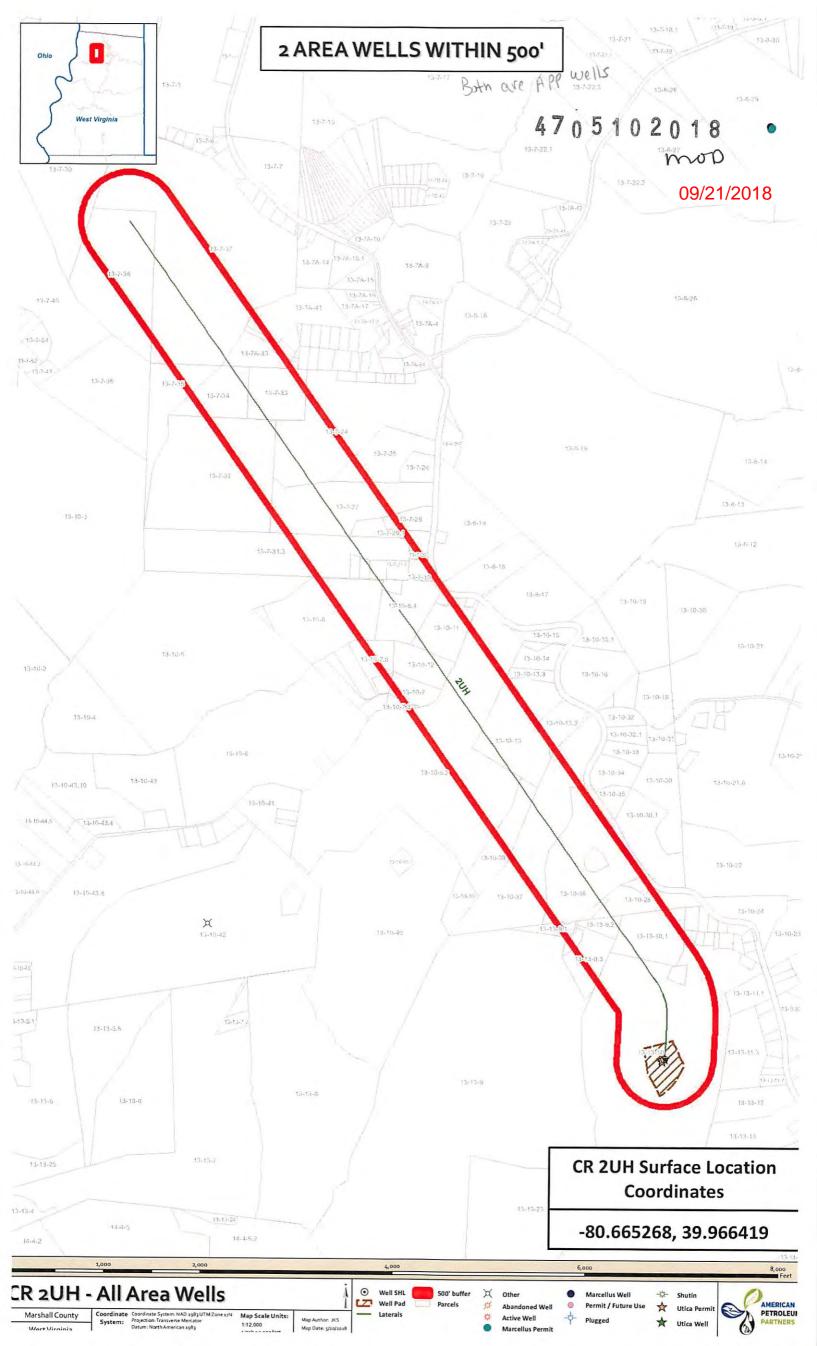
25) Proposed borehole conditioning procedures:

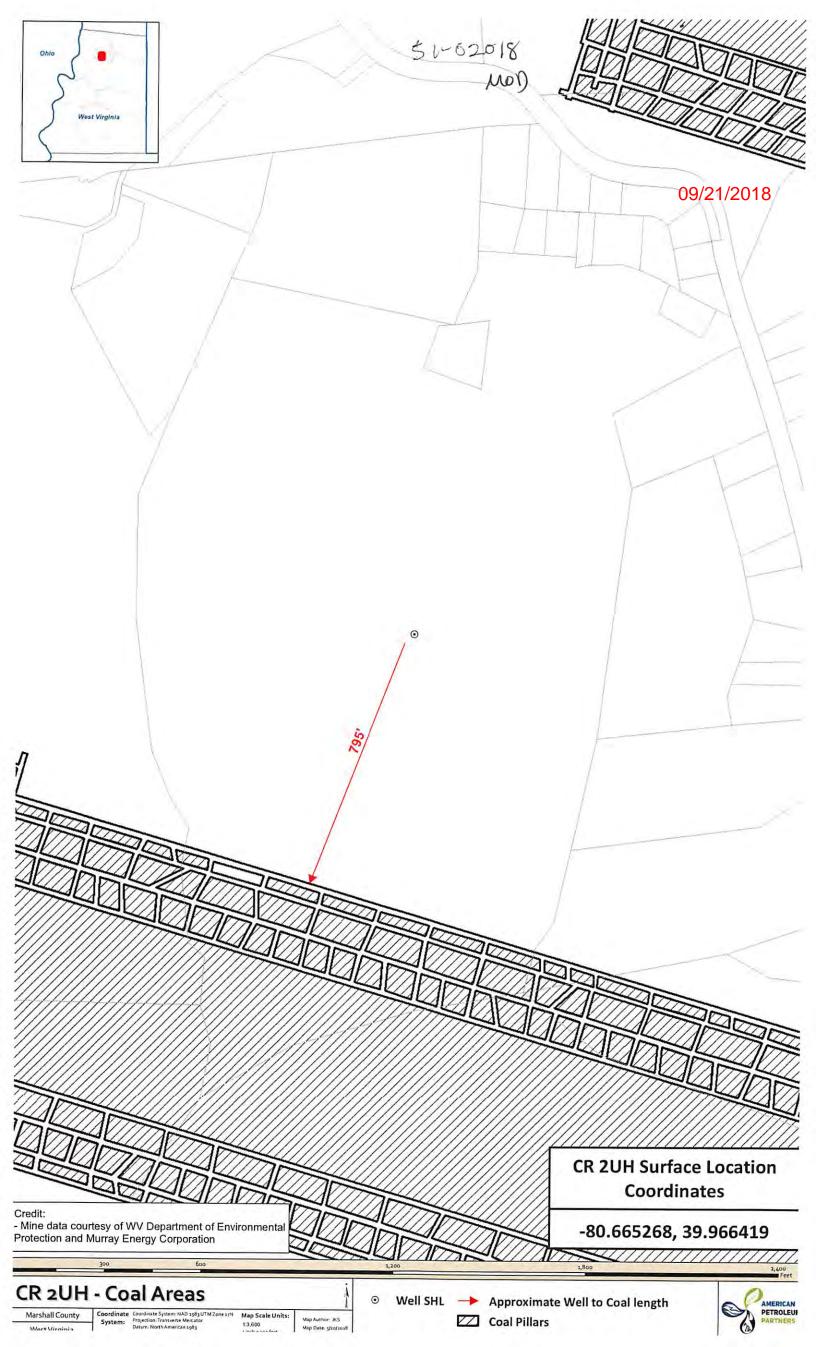
Conductor - The hole is drilled w/ air and casing is run on air. Apart from insuring hole is clean via air circulation at TD, there are no other conditioning procedures. Freshwater/Surface- The hole is drilled w/air or Freshwater based mud and casing is run on air. Once casing is at setting depth, fill with KCI water circulate a minimum of one hole volume prior to pumping cement. First Intermediate- Drilled on Air. Once casing is at 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 a hole volume prior to pumping cement. Production- drilled on +/- 14.8ppg SOBM. Once at TD, circulate at max allowable pump rate for at least 6x bottoms up. Once on bottom with casing, circulate minimum of one hole volume prior to pumping cement.

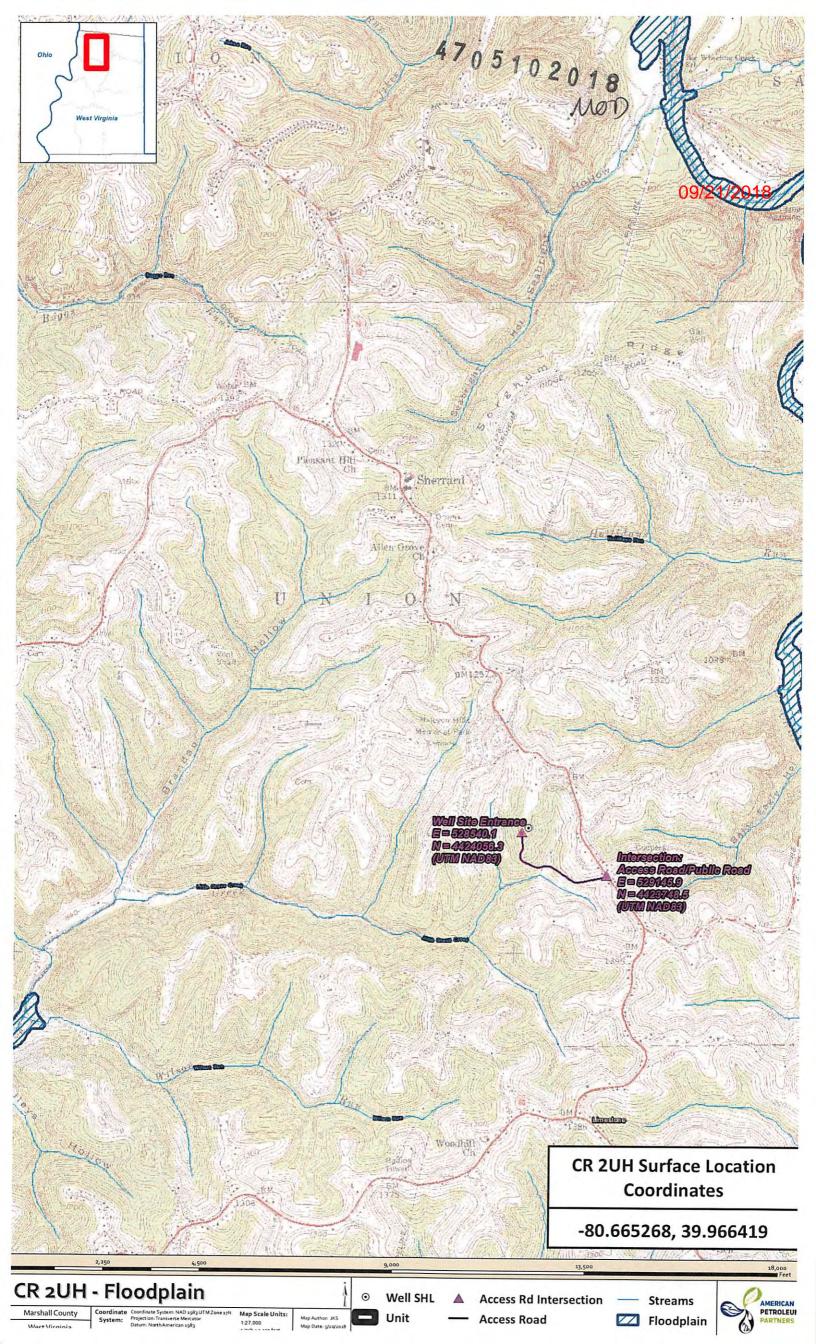
*Note: Attach additional sheets as needed.

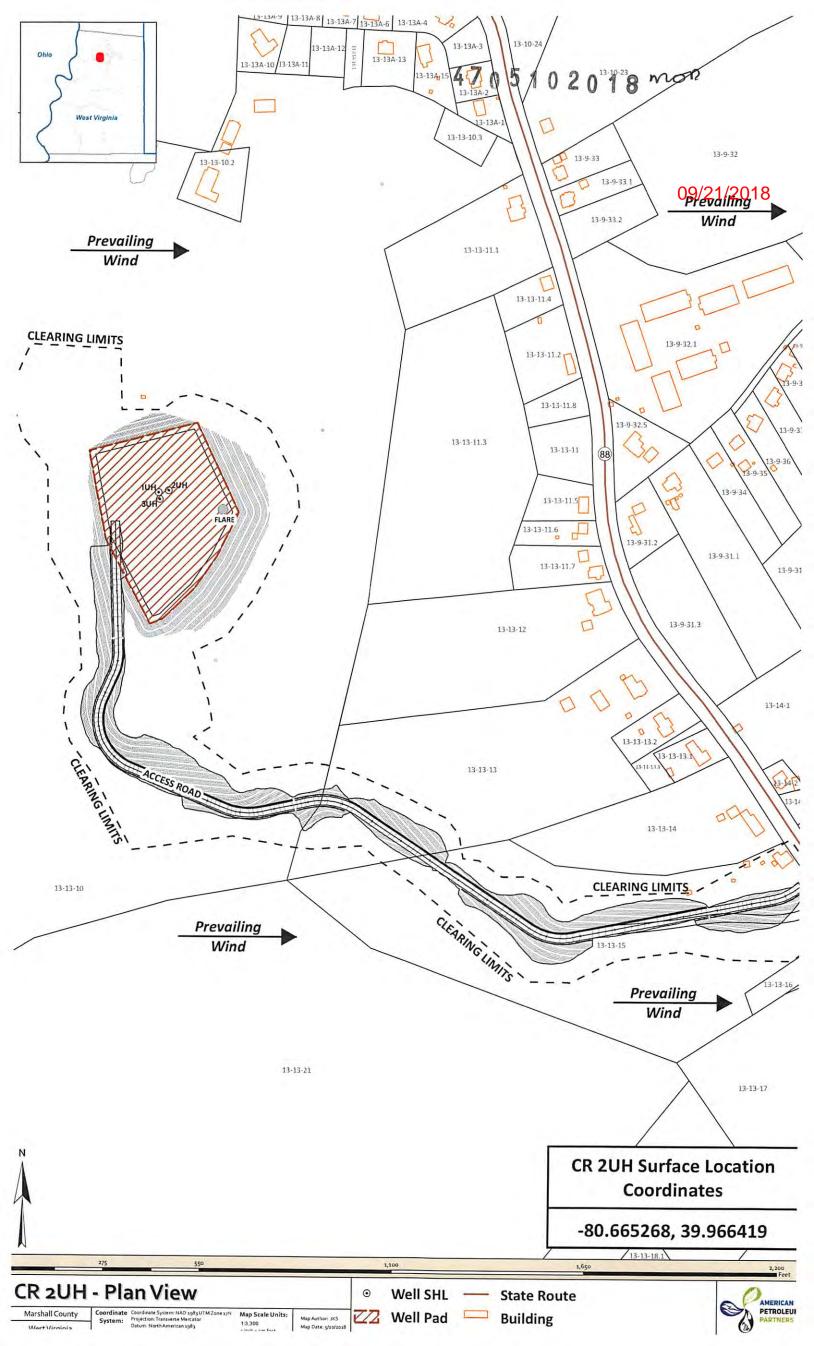
	•	0	PET	ERICAN ROLEUM						Cas Vertio M	ING WEL sterly Rock cal Pilot, U arshall Co,	-2UH tica HZ		
				H	lorizontal Well Pla	an with	Ceme	nted L	ong String	Completion	1	_		
	_	HOLE	RIG	CASING	GEOLOGY	Top TVD	MD	MUD	CEMENT	DIRECTIONAL	LOGS	BITS	COMMENTS	
		36*	36*	Conductor	30" 81.3#				AIR	To Surface	N/A	N/A		Stabilize surface fill/soil
			Rig	LS	-									
					Conductor	60	60							
		1.0			Sewickley Coal	625			15.6ppg		CBL Log Cased hole			
		24*	Top-Hole	20" 94# J- 55 BTC	Pittsburgh Coal	825	-	AIR	to surface	20" Air Hammer	NPHI, GR at	Carbide hammer bit	Protect fresh groundwate	
					Surf. Casing	200	900		521sx w/ 30% OH excess	Totco at TD	Pilot TD in Pilot Well only			
					Big Lime	1695	1811			Center Rock				
		1.1.1		13-3/8*	Greenbrier Group	1762		1.1.1	15.2ppg	15" Air Hammer		Hammer bit w/ diamond gage		
	1	17.5*	Top-Hole	54.5# J-55 BTC	Big Injun	1811		AIR		Gyro above Coal, (Mine Approval)		Test casing to 800psi		
				010	Int. Casing	2111	2111		OH excess	Totco at TD				
		-			Tully LS	6386	2111	-						
					Hamilton	6415	-					Logger - 90 Frammer bit W full	PU cleanout assembly.dress plug, displace to 12.0pg SOBM, PU Curve BHA, time dnil / KO cement plu	
					Cherry Valley	6524		-						
					Marcellus Shale	6526								
		1			Onondaga Ls	6560			15 4000		12° Air Hammer ft samples			
		1		9-5/8* 43#	Oriskany Sandstone	6789		1						
		12.375*	Horizontal	9-5/8 43# P110-IC	Salina Group	7373		AIR	15.4ppg to surface	12° Air Hammer				
		12.20	Rig	BTC	Vermon Shale	8128			936sx w/ 30% OH excess	Totco every 400ft				
					Lockport Dolomite	8345			Orrescess				Expect Seepage in curv	
					Clinton Group	9060		5						
					Medina Group	9132								
	No.			/ i i	Queenston Shale	9312	10112							
					Int. Casing	9712								
	A COLORED				Utica Shale	11212								
	1100			5-1/2" 23#	Point Pleasant Formation	11395			14.8ppg	6.75* PDM &	MWD Surveys Mud Logger - 30	PDC		
1000	ALC: NO.	8.5° Curve/L	Horizontal	Wedge 563 P111	Curve LP			+/- 14.5 ppg	TOC >= 200' Above 9.625	MWD	ft samples	5 - 25 WOB	Geosteering	
		aterai	Rig	Surface to	TARGET			SOB	shoe 4106sa w/	2.38" ADJ Bend (10" Build DLS)	(Curve) 90 ft samples	100 - 120 RPM 450 - 500 GPM		
	1.1.1			LP					15% OH excess		(Lateral)			
	in the second se	and reaching	NH CONTRACTOR	REALERSPORT	Production Casing		alatakina							
					8.5 Hole - Cemented Lor	ng String 5-	1/2° 23# V	Vedge XF	P110 LP to TD					
		120103030405					80996999	CONTRACTOR OF	17.5ppg		en de la delación I			
					Trenton Limestone				Class H from		OH logs, as			
		8.5*		Isolation/ Sidetrack				.+/- 14.5	TD to 200' above KOP	-	directed by APP	Hammer bit w/ full		
		Pilot	HZT Rig	Cement			-	SOB	(2) 800"	8" Air Hammer Totco every 400ft	Operations Dir. Surveys TD	face diamond		
				Plugs	Pilot Hole TD	11595			balanced plugs w/ 2.375" tubing		to shoe			
Lateral Targets		1139	ing Point 95 TVD 136 MD		90.5 degrees			9609 ft Lateral Length		90.5 Inc 325 Az		Total Depth 11395 TVD 21549 TD		

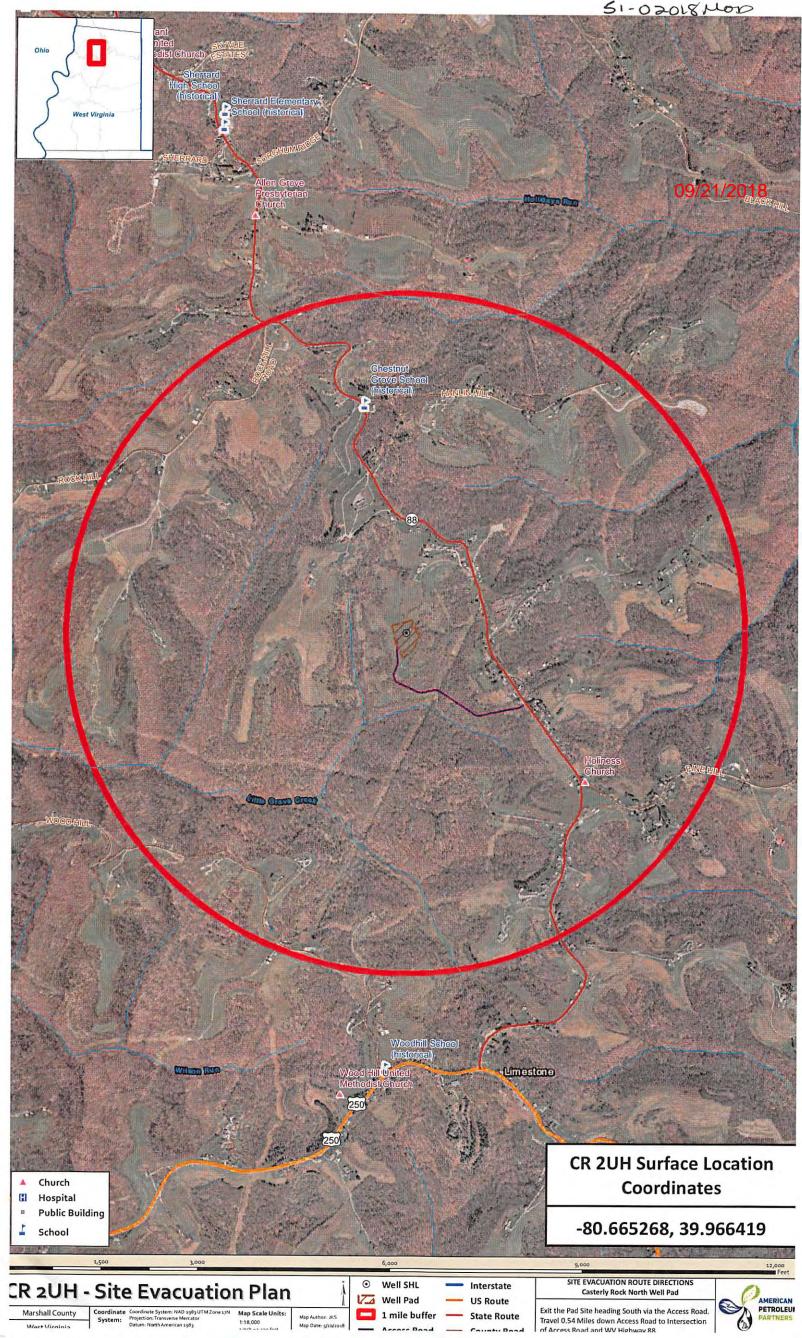
21-02018











WW-6A1 (5/13) Operator's Well No. Casterly Rock-2UH (CRN2-UH)

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 $\frac{12018}{21/2018}$

- (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

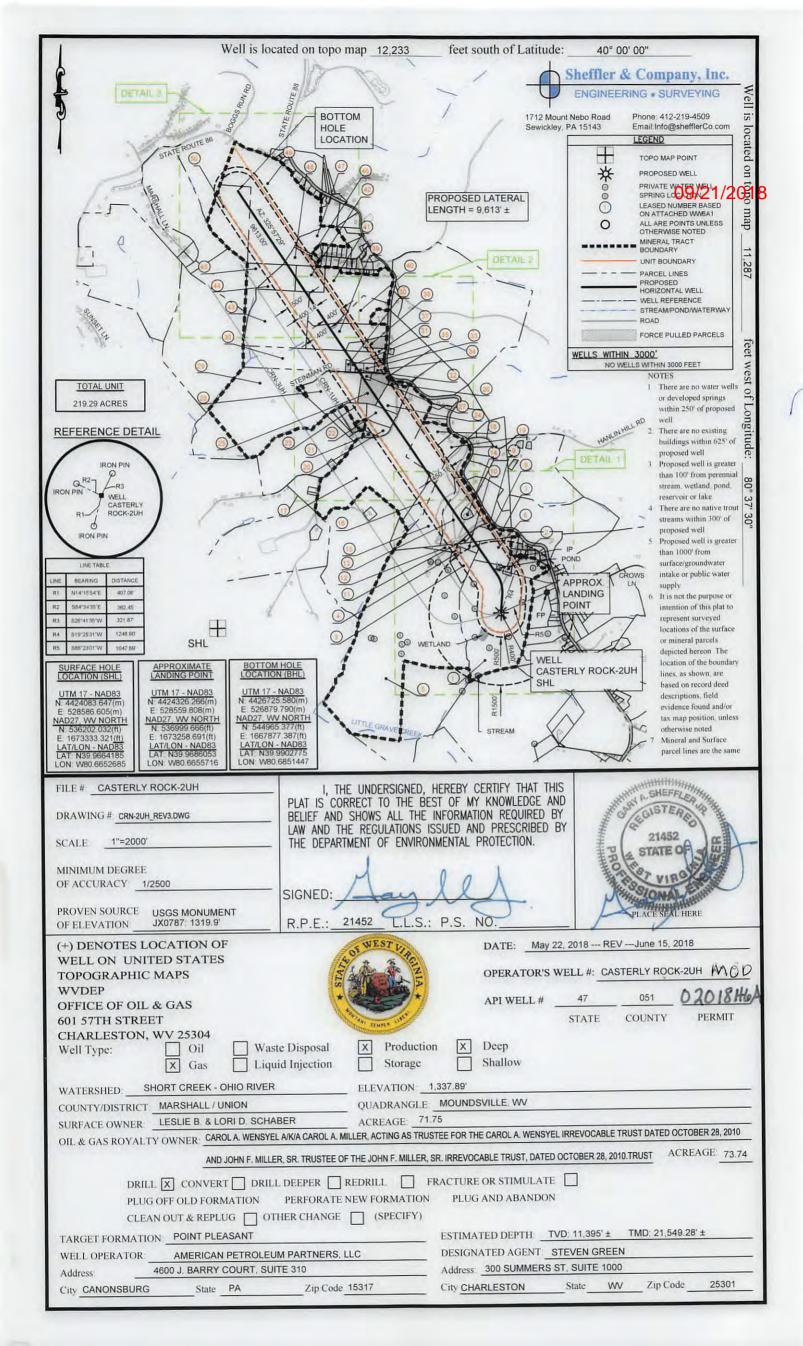
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

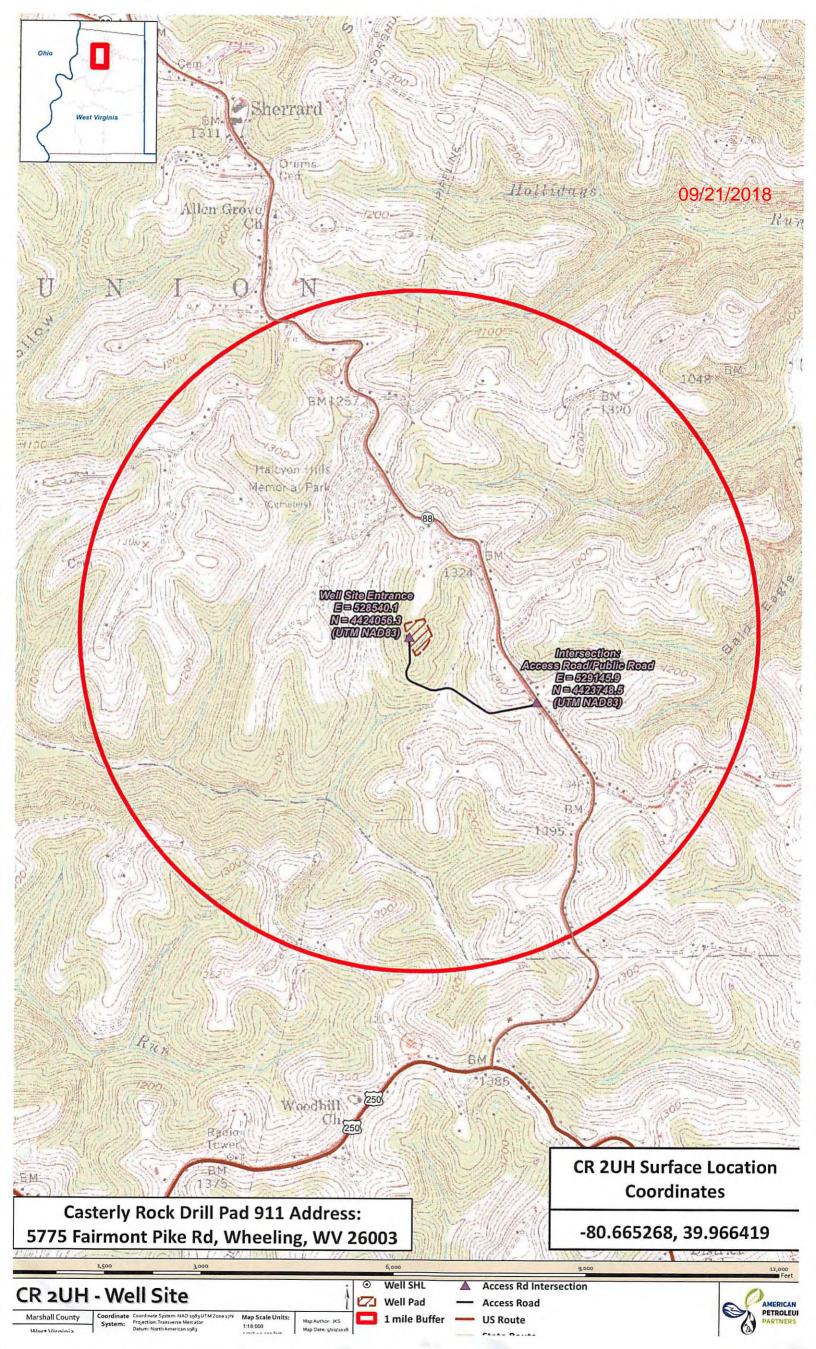
- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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.

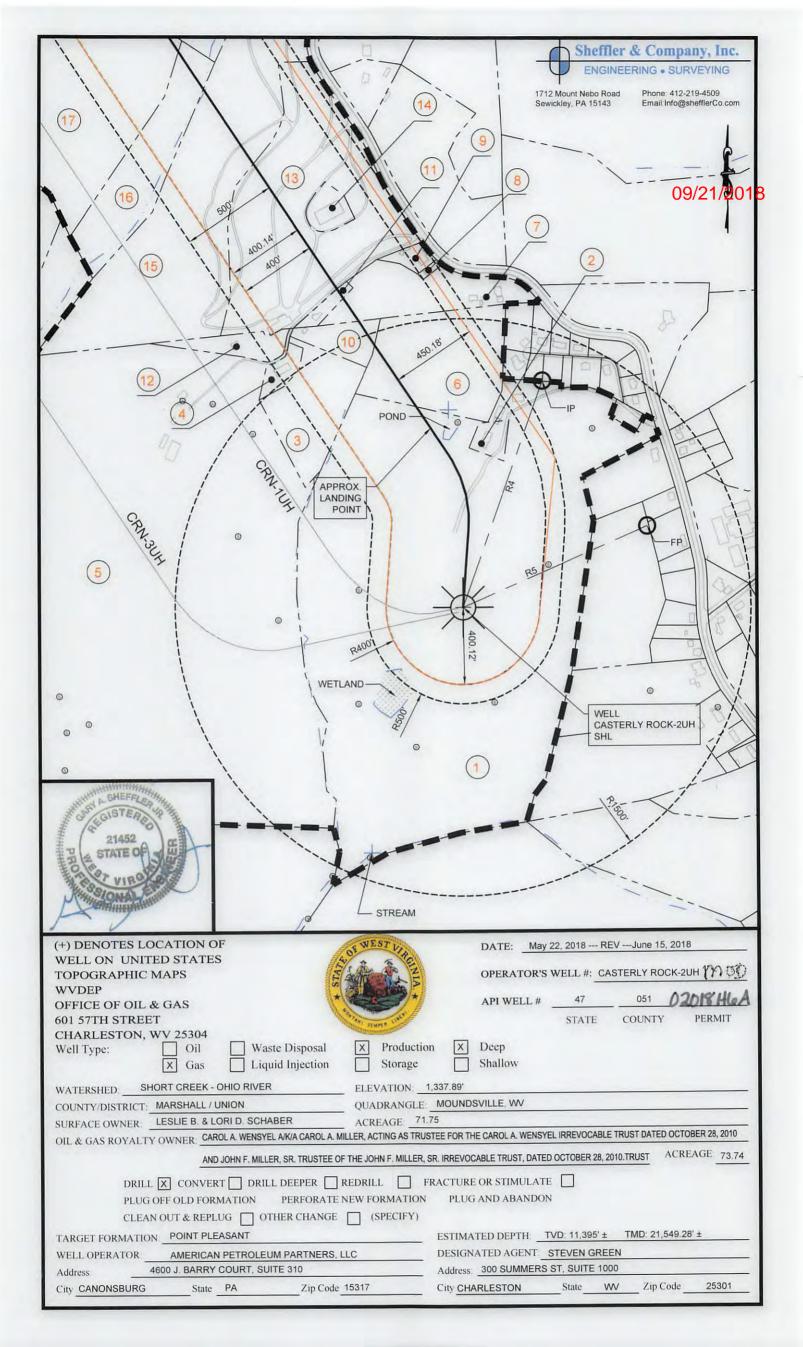
Well Operator:	American Petroleum Partners Operating, LLC
By:	Braulio Silva
Its:	Vice President-Drilling

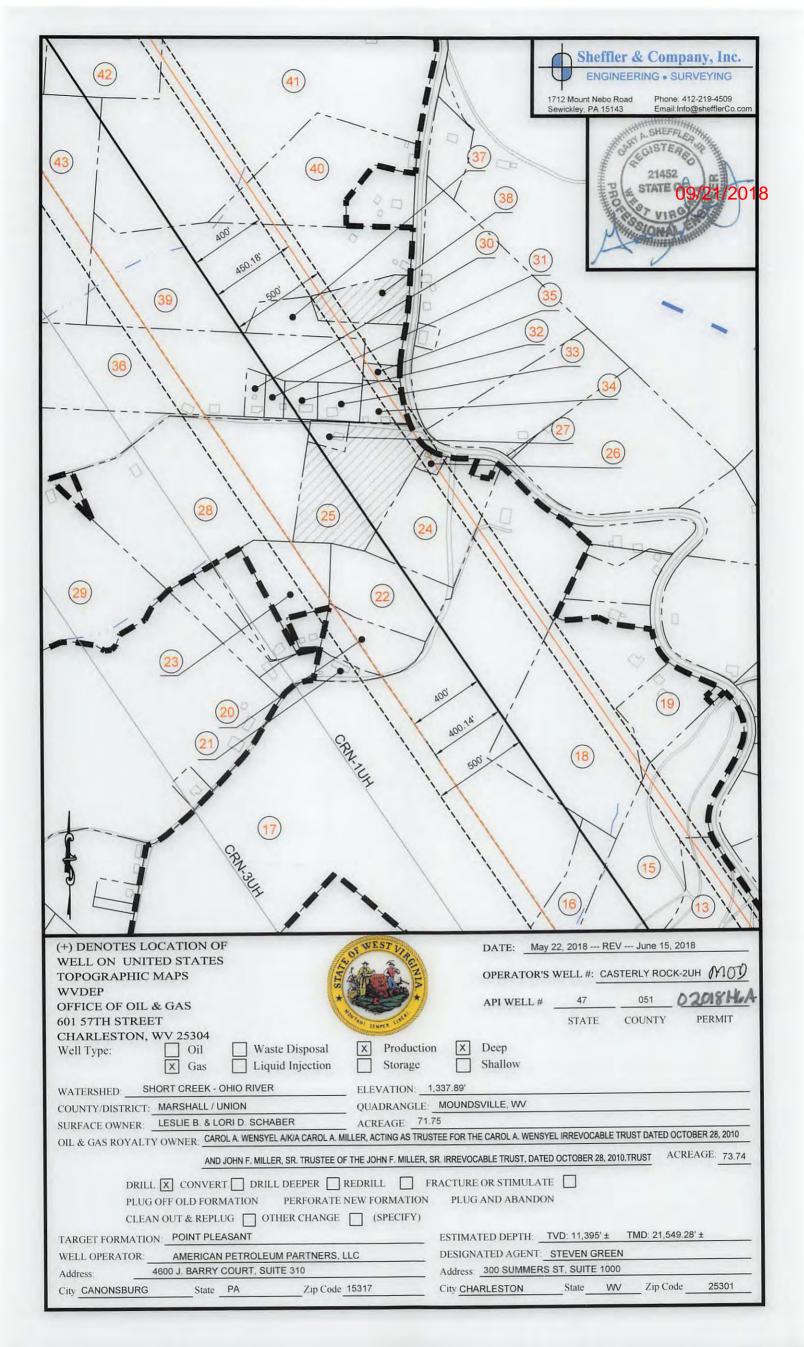
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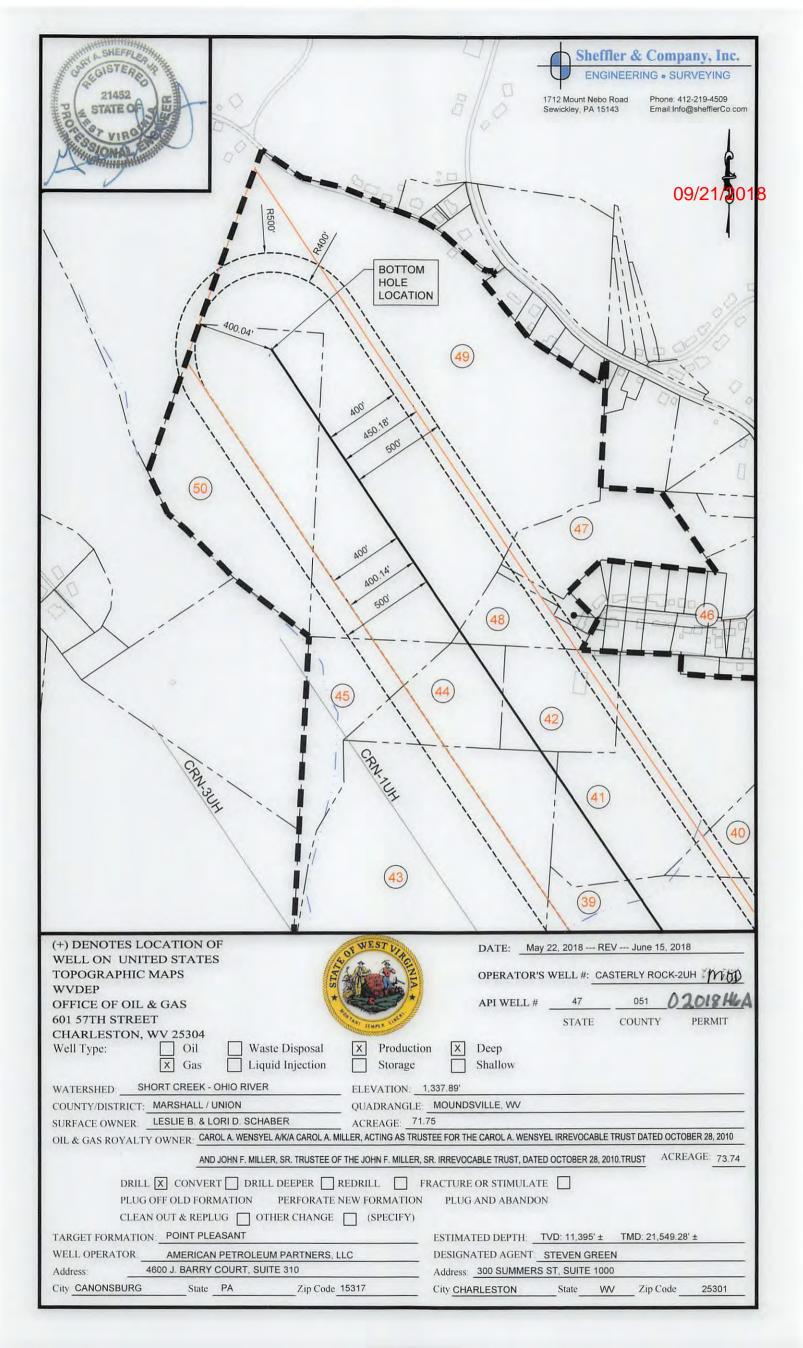




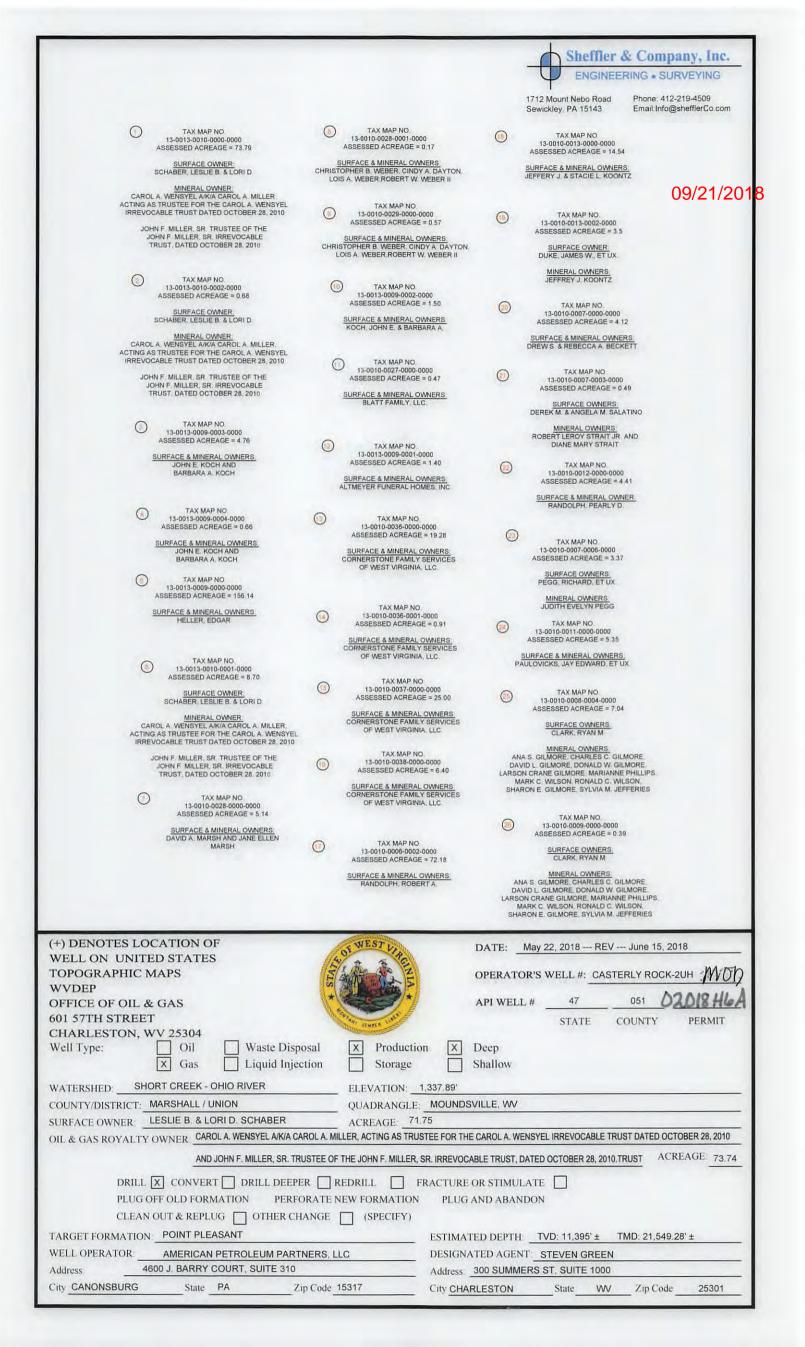
Well is lo	cated on topo map 3,542 feet south of Latitude: 40° 00' 00"
	Sheffler & Company, Inc.
	PROINEERING • SURVEYING 1712 Mount Nebo Road Sewickley, PA 15143 Phone: 412-219-4509 Email: Info@shefflerCo.com 09/21/2 BHL
	1712 Mount Nebo Road Phone: 412-219-4509 Sewickley, PA 15143 Email: Info@shefflerCo.com
	⊕ 09/21/2
	BHL
FILE #: CASTERLY ROCK-2UH	I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS
FILE #: _ CASTERLY ROCK-2UH DRAWING #:_ CRN-2UH_REV3.DWG	PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY
	PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND
DRAWING #REV3.DWG	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
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000'	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.
DRAWING #_ CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT	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.
DRAWING # CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9'	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.
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT	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.
DRAWING #_CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	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.
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MY API WELL # 47 051 02018 H
DRAWING # CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: □ Oil □ Was	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MY API WELL # 47 051 02018 H
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MY API WELL # 47051
DRAWING #_ CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MY API WELL # 47 051 02018 H STATE COUNTY PERMIT e Disposal X Production X Deep id Injection Storage Shallow ELEVATION: 1,337.89' QUADRANGLE: MOUNDSVILLE, WV
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION SURFACE OWNER: LESLIE B. & LORI D. SCHA	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REVJune 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MAY API WELL # 47 051 02016 M STATE COUNTY PERMIT e Disposal X Production X Deep id Injection Storage Shallow ELEVATION: 1,337.89' QUADRANGLE MOUNDSVILLE, WV ACREAGE: 71.75
DRAWING #_ CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION SURFACE OWNER: LESLIE B. & LORI D. SCHA OIL & GAS ROYALTY OWNER: CAROL A. WENSYER	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MY API WELL # 47 051 02018 H STATE COUNTY PERMIT e Disposal X Production X Deep id Injection Storage Shallow ELEVATION: 1,337.89' QUADRANGLE: MOUNDSVILLE, WV
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION SURFACE OWNER: LESLIE B. & LORI D. SCHA OIL & GAS ROYALTY OWNER: CAROL A. WENSYEI	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MAY C API WELL # 47 051 02018 H STATE COUNTY PERMIT e Disposal X Production X Deep Storage Shallow ELEVATION: 1,337.89' QUADRANGLE: MOUNDSVILLE, WV BER ACREAGE: 71.75 AKKA CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010.TRUST ACREAGE: 73.7
DRAWING #_ CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION SURFACE OWNER: LESLIE B. & LORI D. SCHA OIL & GAS ROYALTY OWNER: CAROLA.WENSYEI AND JOHN F. MILLE	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MAY C API WELL # 47 051 02018 H STATE COUNTY PERMIT e Disposal X Production X Deep Storage Shallow ELEVATION: 1,337.89' QUADRANGLE: MOUNDSVILLE, WV BER ACREAGE: 71.75 AKKA CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010.TRUST ACREAGE: 73.7
DRAWING #_ CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION SURFACE OWNER: LESLIE B. & LORI D. SCHA OIL & GAS ROYALTY OWNER: CAROL A. WENSYEI AND JOHN F. MILLE DRILL X CONVERT DILLI PLUG OFF OLD FORMATION CLEAN OUT & REPLUG OT	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MAINER API WELL # 47 051 02016 H STATE COUNTY PERMIT e Disposal X Production X Deep id Injection Storage Shallow ELEVATION: 1,337.89' QUADRANGLE: MOUNDSVILLE, WV 3ER ACREAGE: 71.75 AK/A CAROL A MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010.TRUST ACREAGE: 73.7 DEEPER REDRILL FRACTURE OR STIMULATE PERFORATE NEW FORMATION PLUG AND ABANDON
DRAWING #_ CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION SURFACE OWNER: LESLIE B. & LORI D. SCHA OIL & GAS ROYALTY OWNER: CAROL A. WENSYEI AND JOHN F. MILLE DRILL X CONVERT DRILL PLUG OFF OLD FORMATION CLEAN OUT & REPLUG OTT TARGET FORMATION: POINT PLEASANT	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: R.P.E.: 21452 L.L.S.: P.S. NO. DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH MAY API WELL # 47 051 02016 HERE BOPERATOR'S WELL #: CASTERLY ROCK-2UH MAY BER ACREAGE 71.75 AK/A CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010. TRUST ACREAGE 71.75 AK/A CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010. TRUST ACREAGE 71.75 AK/A CAROL A. MILLER, SR. IRREVOCABLE TRUST, DATED OCTOBER 28, 2010. TRUST ACREAGE 73.77 DEEPER REDRILL FRACTURE OR STIMULATE PERFORATE NEW FORMATION PLUG AND ABANDON HER CHANGE (SPECIFY) SETIMATED DEPTH: TVD: 11.395' ± TMD: 21,549.28' ±
DRAWING #: CRN-2UH_REV3.DWG SCALE: 1"=2000' MINIMUM DEGREE OF ACCURACY: 1/2500 PROVEN SOURCE USGS MONUMENT OF ELEVATION: JX0787 - 1319.9' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Was X Gas Liqu WATERSHED: SHORT CREEK - OHIO RIVER COUNTY/DISTRICT: MARSHALL / UNION SURFACE OWNER: LESLIE B. & LORI D. SCHA OIL & GAS ROYALTY OWNER: CAROL A. WENSYEI AND JOHN F. MILLE DRILL X CONVERT DRILL PLUG OFF OLD FORMATION CLEAN OUT & REPLUG OT	PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RECULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. SIGNED:

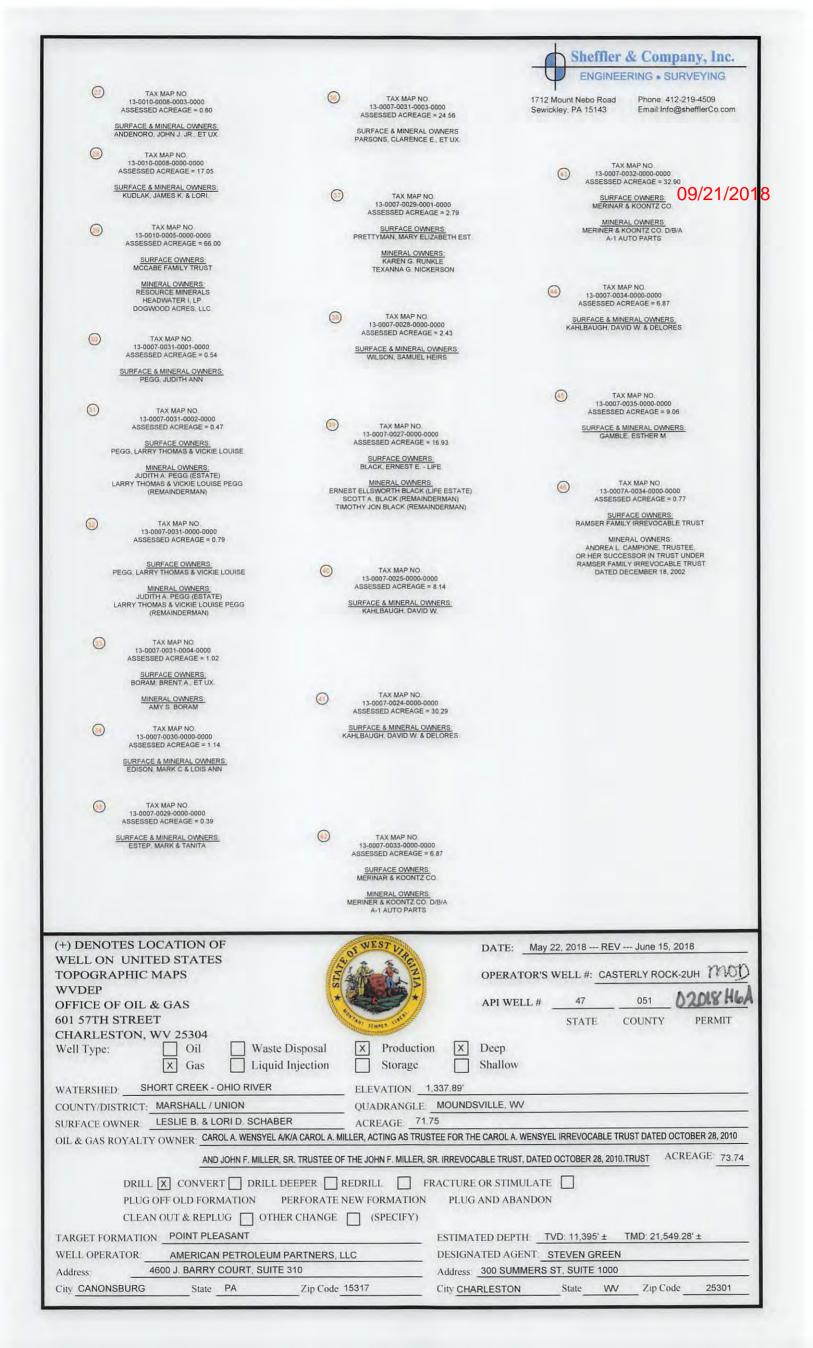






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Pleasant Hill Cem	09/21/2018
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So Harrand Cem Alien Grove Ce	
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	20 100 CO 1100 14
Sheffler & Company, Inc. ENGINEERING • SURVEYING 1712 Mount Nebo Road Sewickley, PA 15143 Phone: 412-219-4509 Email Info@shefflerCo.com	P CISTER C
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS	DATE: May 22, 2018 REV June 15, 2018 OPERATOR'S WELL #: CASTERLY ROCK-2UH API WELL # 47 051 02013 HGA
601 57TH STREET CHARLESTON, WV 25304 Well Type: Oil Waste Disposal X Productio X Gas Liquid Injection Storage	Shallow
SURFACE OWNER: LESLIE B. & LORI D. SCHABER ACREAGE: 71. OIL & GAS ROYALTY OWNER: CAROL A. WENSYEL AK/A CAROL A. MILLER, ACTING AS TRUE	MOUNDSVILLE, WV 75 TEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)	RACTURE OR STIMULATE PLUG AND ABANDON
TARGET FORMATION: POINT PLEASANT WELL OPERATOR: AMERICAN PETROLEUM PARTNERS, LLC Address: 4600 J. BARRY COURT, SUITE 310 City CANONSBURG State PA Zip Code 15317	ESTIMATED DEPTH: TVD: 11,395' ± TMD: 21,549.28' ± DESIGNATED AGENT: STEVEN GREEN Address: 300 SUMMERS ST, SUITE 1000 City CHARLESTON State WV Zip Code 25301





¢	Sheffler	& Company, Inc.
	ENGINEE	RING . SURVEYING
	unt Nebo Road y. PA 15143	Phone: 412-219-4509 Email:Info@shefflerCo.com

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	TAX MAP NO.	
	13-0007A-0041-0000-0000	
	ASSESSED ACREAGE = 14.00	
	SURFACE OWNERS	
	GAMBLE, REBECCA C. EST.	
	MINERAL OWNERS:	
	SHELLEY L. TUSKEY	
	CHARLES RAY MEREDITH	
	AMY J. GAMBLE	
	DOUGLAS I. GAMBLE	
	SHERRY L GAMBLE	
	DONNA S. KIRCH	
	KATHRYN J. MERCURIO	
	MARTHA ANN MIGLIORINI	
	CYNTHIA M. GAMBLE	
-		
48)	TAX MAP NO	
-	13-0007A-0033-0000-0000	
	ASSESSED ACREAGE = 4.00	
	SURFACE & MINERAL OWNERS	
	ARCHBOLD, JAMES W., ET UX.	
	TAX MAP NO.	
	13-0007-0037-0000-0000	
	ASSESSED ACREAGE = 67.28	
	SURFACE OWNERS:	
	CALDWELL, JANICE ANN - LIFE	
	MINERAL OWNERS	
	CHARLES W. CALDWELL	
	RICHARD J. CALDWELL	
	CHRISTIAN A. CALDWELL	
0	TAX MAP NO.	

(

(6) TAX MAP NO. 13-0007-0038-0000-0000 ASSESSED ACREAGE = 20.00 <u>SURFACE OWNERS:</u> CALDWELL, JANICE ANN - LIFE

MINERAL OWNERS: CHARLES W. CALDWELL RICHARD J. CALDWELL CHRISTIAN A. CALDWELL

(+) DENOTES LOCATION OF	S WEST VIA	DATE: May	22, 2018 RE	EV June 15	, 2018
WELL ON UNITED STATES	A R Z	OPERATOR'S	WELL #: CA	STERLY RO	CK-2UH MOD
WVDEP OFFICE OF OIL & GAS		API WELL #	47	051	02018H6A
601 57TH STREET	VIANI JENNER UNE		STATE	COUNTY	PERMIT
CHARLESTON, WV 25304 Well Type: Oil X Gas Liquid Injection	X Production X Storage	Deep Shallow			
WATERSHED: SHORT CREEK - OHIO RIVER	ELEVATION: 1,337.89'				
COUNTY/DISTRICT: MARSHALL / UNION	QUADRANGLE: MOUND	SVILLE, WV			
SURFACE OWNER: LESLIE B. & LORI D. SCHABER OIL & GAS ROYALTY OWNER: CAROL A. WENSYEL A/K/A CAROL A. MIL	ACREAGE: 71.75			TRUST DATED	OCTOBER 28 2010
					ACREAGE: 73 74
AND JOHN F. MILLER, SR. TRUSTEE OF T DRILL X CONVERT DRILL DEEPER RI PLUG OFF OLD FORMATION PERFORATE N CLEAN OUT & REPLUG OTHER CHANGE	EDRILL FRACTUR	CABLE TRUST, DATED E OR STIMULATE G AND ABANDON		DIO.TRUST	
TARGET FORMATION: POINT PLEASANT	ESTIMA	ATED DEPTH:	VD: 11,395' ±	TMD: 21,5	49.28' ±
WELL OPERATOR: AMERICAN PETROLEUM PARTNERS, LL		NATED AGENT:		Con	
Address: 4600 J. BARRY COURT, SUITE 310		300 SUMMERS	The second second		
City CANONSBURG State PA Zip Code 1	5317 City CH	ARLESTON	State W	N Zip Co	ode 25301

CRN 2UH - Wellbore Tracts

	LEASE #	LESSOR	CURRENT LESSEE	ROYALTY	MOL RECORDING INFORMATION	TAX PARCEL
1/	WV-MAR-0685	Carol A. Wensyel a/k/a Carol A. Miller, acting as Trustee for the Carol A. Wensyel Irrevocable Trust dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	773/596; 777/21	13-13-10
1/	WV-MAR-0686	John F. Miller, Sr. Trustee of the John F. Miller, Sr. Irrevocable Trust, dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	777/30	13-13-10
₆ J	WV-MAR-0685	Carol A. Wensyel a/k/a Carol A. Miller, acting as Trustee for the Carol A. Wensyel Irrevocable Trust dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	773/596; 777/21	13-13-10.1
6 J	WV-MAR-0686	John F. Miller, Sr. Trustee of the John F. Miller, Sr. Irrevocable Trust, dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	777/30	13-13-10.1
7J	WV-MAR-0178	David A. Marsh and Jane Ellen Marsh	American Petroleum Partners Operating, LLC	Not less than 1/8	862/463	13-10-28
10 J	WV-MAR-0723	John E. Koch and Barbara A. Koch	American Petroleum Partners Operating, LLC	Not less than 1/8	835/232	13-13-9.2
11 J	Pending	Blatt Family LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	865/400	13-10-27
13 🖌	WV-MAR-0342	Cornerstone Family Services of West Virginia LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	920/120	13-10-36

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15 /	WV-MAR-0342	Cornerstone Family Services of West Virginia LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	920/120	13-10-37
16 🖌	WV-MAR-0342	Cornerstone Family Services of West Virginia LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	920/120	13-10-38
17	Pending	Robert A. Randolph	American Petroleum Partners Operating, LLC	Not less than 1/8	721/219	13-10-6.2
18	Pending	Jeffery J. Koontz and Stacie L. Koontz	American Petroleum Partners Operating, LLC	Not less than 1/8	702/456	13-10-13
22 J	WV-MAR-0329	Pearly D. Randolph	American Petroleum Partners Operating, LLC	Not less than 1/8	919/391	13-10-12
24 🤳	WV-MAR-1043	Jay Edward Paulovicks and Nancy K. Paulovicks	American Petroleum Partners Operating, LLC	Not less than 1/8	969/551	13-10-11
25 /	Pending	Ana S. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	881/136	13-10-8.4
25 J	Pending	Charles C. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	877/210	13-10-8.4
25 🆌	Pending	David L. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	877/204	13-10-8.4
25 /	Pending	Donald W. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	873/68	13-10-8.4
25 J		Larson Crane Gilmore	Larson Crane Gilmore	Not less than 1/8		13-10-8.4
25 J	Pending	Marianne Philipps	American Petroleum Partners Operating, LLC	Not less than 1/8	877/213	13-10-8.4
25 /	Pending	Mark C. Wilson	American Petroleum Partners Operating, LLC	Not less than 1/8	879/311	13-10-8.4
25	Pending	Ronald C. Wilson	American Petroleum Partners Operating, LLC	Not less than 1/8	873/510	13-10-8.4
25 /	Pending	Sharon E. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	877/207	13-10-8.4
25		Sylvia M. Jefferies	Sylvia M. Jefferies	Not less than 1/8		13-10-8.4
27	Pending	John J. Andenoro Jr. and Janice K. Andenoro	American Petroleum Partners Operating, LLC	Not less than 1/8	725/226	13-10-8.3
31-	Pending	Judith A. Pegg (Life Estate)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31.2

31 /	Pending	Larry Thomas Pegg and Vickie Louise Pegg (Remainderman)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31.2
32/	Pending	Judith A. Pegg (Life Estate)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31
32	Pending	Larry Thomas Pegg and Vickie Louise Pegg (Remainderman)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31
36	WV-MAR-0147	Clarence Edward Parsons and Deanna Kay Parsons	American Petroleum Partners Operating, LLC	Not less than 1/8	827/136	13-7-31.3
39	WV-MAR-0327	Ernest Ellsworth Black, life estate; Scott A. Black, remainderman; Timothy Jon Black, remainderman	American Petroleum Partners Operating, LLC	Not less than 1/8	917/24	13-7-27
41	WV-MAR-0197	David W. Kahlbaugh and Delores J. Kahlbaugh	American Petroleum Partners Operating, LLC	Not less than 1/8	911/511	13-7-24
42]	WV-MAR-0033	Merinar and Koontz Co. d/b/a A- 1 Auto Parts	American Petroleum Partners Operating, LLC	Not less than 1/8	822/198	13-7-33
43 J	WV-MAR-0033	Merinar and Koontz Co. d/b/a A- 1 Auto Parts	American Petroleum Partners Operating, LLC	Not less than 1/8	822/198	13-7-32
44 J	WV-MAR-0197	David W. Kahlbaugh and Delores J. Kahlbaugh	American Petroleum Partners Operating, LLC	Not less than 1/8	911/511	13-7-34
48.	Pending	James Archbold and Denise Archbold	American Petroleum Partners Operating, LLC	Not less than 1/8	720/580	13-7A-33
491	WV-MAR-0646	Charles W. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/58	13-7-37
49 J	WV-MAR-0647	Richard J. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/63	13-7-37
49 J	WV-MAR-0648	Christian A. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/68	13-7-37
50 J	WV-MAR-0646	Charles W. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/58	13-7-38
50	WV-MAR-0647	Richard J. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/63	13-7-38

18

50 1	WV-MAR-0648	Christian A. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/68	13-7-38
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Note: The parcels that say pending were acquired in trades from other operators (the assignments are recorded in Marshall County Courthouse). Internally they haven't been assigned a Lease No. yet is why they are listed as pending.

Note: The parcels that have no lease number or recording information we will be pursuing force pooling procedures. Attemps were made on 13-10-8.4 to contact the owners to sign leases.

CRN 2UH - 400' Buffer Tracts

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	LEASE #	LESSOR	CURRENT LESSEE	ROYALTY	MOL RECORDING INFORMATION	TAX PARCEL
1	WV-MAR-0685	Carol A. Wensyel a/k/a Carol A. Miller, acting as Trustee for the Carol A. Wensyel Irrevocable Trust dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	773/596; 777/21	13-13-10
1	WV-MAR-0686	John F. Miller, Sr. Trustee of the John F. Miller, Sr. Irrevocable Trust, dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	777/30	13-13-10
2	WV-MAR-0685	Carol A. Wensyel a/k/a Carol A. Miller, acting as Trustee for the Carol A. Wensyel Irrevocable Trust dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	773/596; 777/21	13-13-10.2
2	WV-MAR-0686	John F. Miller, Sr. Trustee of the John F. Miller, Sr. Irrevocable Trust, dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	777/30	13-13-10.2
3	WV-MAR-0723	John E. Koch and Barbara A. Koch	American Petroleum Partners Operating, LLC	Not less than 1/8	835/232	13-13-9.3
4	WV-MAR-0723	John E. Koch and Barbara A. Koch	American Petroleum Partners Operating, LLC	Not less than 1/8	835/232	13-13-9.4
5	Pending	Edgar Heller	American Petroleum Partners Operating, LLC	Not less than 1/8	879/272	13-13-9

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6	WV-MAR-0685	Carol A. Wensyel a/k/a Carol A. Miller, acting as Trustee for the Carol A. Wensyel Irrevocable Trust dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	773/596; 777/21	13-13-10.1
6	WV-MAR-0686	John F. Miller, Sr. Trustee of the John F. Miller, Sr. Irrevocable Trust, dated October 28, 2010	American Petroleum Partners Operating, LLC	Not less than 1/8	777/30	13-13-10.1
7	WV-MAR-0178	David A. Marsh and Jane Ellen Marsh	American Petroleum Partners Operating, LLC	Not less than 1/8	862/463	13-10-28
8	Pending	Christopher B. Weber	American Petroleum Partners Operating, LLC	Not less than 1/8	692/48	13-10-28.1
8	Pending	Cindy A. Dayton	American Petroleum Partners Operating, LLC	Not less than 1/8	692/42	13-10-28.1
8	Pending	Lois A. Weber	American Petroleum Partners Operating, LLC	Not less than 1/8	692/39	13-10-28.1
8	Pending	Robert W. Weber, II	American Petroleum Partners Operating, LLC	Not less than 1/8	692/45	13-10-28.1
9	Pending	Christpher B. Weber	American Petroleum Partners Operating, LLC	Not less than 1/8	692/48	13-10-29
9	Pending	Cindy A. Dayton	American Petroleum Partners Operating, LLC	Not less than 1/8	692/42	13-10-29
9	Pending	Lois A. Weber	American Petroleum Partners Operating, LLC	Not less than 1/8	692/39	13-10-29
9	Pending	Robert W. Weber, II	American Petroleum Partners Operating, LLC	Not less than 1/8	692/45	13-10-29
10	WV-MAR-0723	John E. Koch and Barbara A. Koch	American Petroleum Partners Operating, LLC	Not less than 1/8	835/232	13-13-9.2
11	Pending	Blatt Family LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	865/400	13-10-27
12	WV-MAR-0524	Altmeyer Funeral Homes, Inc.	American Petroleum Partners Operating, LLC	Not less than 1/8	938/70	13-13-9.1

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WV-MAR-0342	· ·		Not less than 1/8	920/120	13-10-36
WV-MAR-0342	-	American Petroleum Partners Operating,	Not less than 1/9	020/120	12 10 20 1
	West Virginia LLC	LLC		920/120	13-10-36.1
14/1/ MAR 03/3	Cornerstone Family Services of	American Petroleum Partners Operating,			
WW-WIAR-0542	West Virginia LLC		Not less than 1/8	920/120	13-10-37
				· · · · · · · · · · · · · · · · · · ·	
WV-MAR-0342	· ·		Not less than 1/8	920/120	13-10-38
	West Virginia LLC				
Pending	Robert A. Randolph		Not less than 1/8	721/219	13-10-6.2
	· · · · · · · · · · · · · · · · · · ·			, 21, 215	13-10-0.2
Pending	Jeffery J. Koontz and Stacie L.	American Petroleum Partners Operating,	Net less the 4/0	700 (170	
- Chaing	Koontz	LLC	Not less than 1/8	/02/456	13-10-13
	Drew S. Beckett and Rebecca A.	American Petroleum Partners Operating			
Pending			Not less than 1/8	888/605	13-10-7
	Deckett				
WV-MAR-0329	Pearly D. Randolph		Not less than 1/8	919/391	13-10-12
					10 10 12
Pending	ludith Evelyn Pegg	American Petroleum Partners Operating,	Not loss than 1/0	700/004	
		LLC	NULIESS LIIdii 1/0	709/604	13-10-7.6
MAL MAAD 1040	Jay Edward Paulovicks and	American Petroleum Partners Operating,			
WV-WAK-1043		-	Not less than 1/8	969/551	13-10-11
Pending	Ana S. Gilmore		Not less than 1/8	881/136	13-10-8.4
Pending	Charles C. Gilmore		Not less than 1/8	877/210	13-10-8.4
				0///210	13-10-8.4
Dending	David L Cilmora	American Petroleum Partners Operating,			
renuing	David L. Gilmore	LLC	Not less than 1/8	877/204	13-10-8.4
Pending	Donald W. Gilmore		Not less than 1/8	873/68	13-10-8.4
	larson Crane Gilmore		Not loss than 1/9		12.10.0.1
			NOLIESS LIIdii 1/0		13-10-8.4
Pending	Marianne Philipps		Not less than 1/8	877/213	13-10-8.4
				0,210	10 10-0.4
Pending	Mark C. Wilson	American Petroleum Partners Operating,	Not less than 1 /0	070/211	
i chung		LLC	NOT less than 1/8	8/9/311	13-10-8.4
	WV-MAR-0342 WV-MAR-0342 WV-MAR-0342 Pending Pending WV-MAR-0329 Pending WV-MAR-1043 Pending Pending Pending Pending Pending	West Virginia LLCWV-MAR-0342Cornerstone Family Services of West Virginia LLCWV-MAR-0342Cornerstone Family Services of West Virginia LLCWV-MAR-0342Cornerstone Family Services of West Virginia LLCPendingRobert A. RandolphPendingJeffery J. Koontz and Stacie L. KoontzPendingDrew S. Beckett and Rebecca A. BeckettWV-MAR-0329Pearly D. RandolphPendingJudith Evelyn PeggWV-MAR-0329Pearly D. RandolphPendingJay Edward Paulovicks and Nancy K. PaulovicksPendingCharles C. GilmorePendingDavid L. GilmorePendingDonald W. GilmorePendingMarianne Philipps	WV-MAR-0342West Virginia LLCLLCWV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, ULCWV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, LLCWV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, LLCWV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, LLCPendingRobert A. RandolphAmerican Petroleum Partners Operating, LLCPendingJeffery J. Koontz and Stacie L. KoontzAmerican Petroleum Partners Operating, LLCPendingDrew S. Beckett and Rebecca A. BeckettAmerican Petroleum Partners Operating, LLCWV-MAR-0329Pearly D. RandolphAmerican Petroleum Partners Operating, LLCWV-MAR-1043Jay Edward Paulovicks and Nancy K. PaulovicksAmerican Petroleum Partners Operating, LLCPendingAna S. GilmoreAmerican Petroleum Partners Operating, LLCPendingCharles C. GilmoreAmerican Petroleum Partners Operating, LLCPendingDonald L. GilmoreAmerican Petroleum Partners Operating, 	WV-MAR-0342 West Virginia LLC LLC Not less than 1/8 WV-MAR-0342 Cornerstone Family Services of West Virginia LLC American Petroleum Partners Operating, LLC Not less than 1/8 WV-MAR-0342 Cornerstone Family Services of West Virginia LLC American Petroleum Partners Operating, West Virginia LLC Not less than 1/8 WV-MAR-0342 Cornerstone Family Services of West Virginia LLC American Petroleum Partners Operating, LLC Not less than 1/8 Pending Robert A. Randolph American Petroleum Partners Operating, LLC Not less than 1/8 Pending Jeffery J. Koontz and Stacie L. Koontz American Petroleum Partners Operating, LLC Not less than 1/8 WV-MAR-0329 Pearly D. Randolph American Petroleum Partners Operating, Beckett Not less than 1/8 WV-MAR-1043 Jay Edward Paulovicks and Nancy K. Paulovicks American Petroleum Partners Operating, LLC Not less than 1/8 Pending Ana S. Gilmore American Petroleum Partners Operating, LLC Not less than 1/8 Pending Ana S. Gilmore American Petroleum Partners Operating, LLC Not less than 1/8 Pending Ana S. Gilmore American Petroleum Partners Operating, LLC Not less than 1/8 Pending David L. Gilmore	WV-MAR-0342West Virginia LLCLLCNot less than 1/8920/120WV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, LCNot less than 1/8920/120WV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, LLCNot less than 1/8920/120WV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, LLCNot less than 1/8920/120WV-MAR-0342Cornerstone Family Services of West Virginia LLCAmerican Petroleum Partners Operating, LLCNot less than 1/8920/120PendingRobert A. Randolph Koontz and Stacie L. KoontzAmerican Petroleum Partners Operating, LLCNot less than 1/8721/219PendingDrew S. Beckett and Rebecca A. BeckettAmerican Petroleum Partners Operating, LLCNot less than 1/8919/391PendingJudith Evelyn PeggAmerican Petroleum Partners Operating, LLCNot less than 1/8919/391PendingJudith Evelyn PeggAmerican Petroleum Partners Operating, LLCNot less than 1/8969/551Wv-MAR-1043Jay Edward Paulovicks and Nancy K. PaulovicksAmerican Petroleum Partners Operating, LLCNot less than 1/8881/136PendingCharles C. GilmoreAmerican Petroleum Partners Operating, LLCNot less than 1/8877/210PendingDavid L. GilmoreAmerican Petroleum Partners Operating, LLCNot less than 1/8877/210PendingDonald W. Gilmore

25	Pending	Ronald C. Wilson	American Petroleum Partners Operating, LLC	Not less than 1/8	873/510	13-10-8.4
25	Pending	Sharon E. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	877/207	13-10-8.4
25		Sylvia M. Jefferies	Sylvia M. Jefferies	Not less than 1/8		13-10-8.4
26	Pending	Ana S. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	881/136	13-10-9
26	Pending	Charles C. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	877/210	13-10-9
26	Pending	David L. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	877/204	13-10-9
26	Pending	Donald W. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	873/68	13-10-9
26		Larson Crane Gilmore	Larson Crane Gilmore	Not less than 1/8		13-10-9
26	Pending	Marianne Philipps	American Petroleum Partners Operating, LLC	Not less than 1/8	877/213	13-10-9
26	Pending	Mark C. Wilson	American Petroleum Partners Operating, LLC	Not less than 1/8	879/311	13-10-9
26	Pending	Ronald C. Wilson	American Petroleum Partners Operating, LLC	Not less than 1/8	873/510	13-10-9
26	Pending	Sharon E. Gilmore	American Petroleum Partners Operating, LLC	Not less than 1/8	877/207	13-10-9
26		Sylvia M. Jefferies	Sylvia M. Jefferies	Not less than 1/8		13-10-9
27	Pending	John J. Andenoro Jr. and Janice K. Andenoro	American Petroleum Partners Operating, LLC	Not less than 1/8	725/226	13-10-8.3
28	WV-MAR-0138	James K. Kudlak and Lori A. Kudlak	American Petroleum Partners Operating, LLC	Not less than 1/8	838/525	13-10-8
29	Pending	Resource Minerals Headwater I, LP	American Petroleum Partners Operating, LLC	Not less than 1/8	940/448	13-10-5
29	WV-MAR-0801	Dogwood Acres, LLC	American Petroleum Partners Operating, LLC	Not less than 1/8	949/383	13-10-5
30	Pending	Judith A. Pegg	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31.1

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31	Pending	Judith A. Pegg (Life Estate)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31.2
31	Pending	Larry Thomas Pegg and Vickie Louise Pegg (Remainderman)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31.2
32	Pending	Judith A. Pegg (Life Estate)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31
32	Pending	Larry Thomas Pegg and Vickie Louise Pegg (Remainderman)	American Petroleum Partners Operating, LLC	Not less than 1/8	709/602	13-7-31
33	Pending	Amy S. Boram	American Petroleum Partners Operating, LLC	Not less than 1/8	709/63	13-7-31.4
34	WV-MAR-0674	Mark C. Edison and Lois Ann Edison	American Petroleum Partners Operating, LLC	Not less than 1/8	945/49	13-7-30
35	WV-MAR-0815	Mark Estep and Tanita Estep	American Petroleum Partners Operating, LLC	Not less than 1/8	951/498	13-7-29
36	WV-MAR-0147	Clarence Edward Parsons and Deanna Kay Parsons	American Petroleum Partners Operating, LLC	Not less than 1/8	827/136	13-7-31.3
37	WV-MAR-0232	Karen G. Runkle	American Petroleum Partners Operating, LLC	Not less than 1/8	910/639	13-7-29.1
37	WV-MAR-0233	Texanna G. Nickerson	American Petroleum Partners Operating, LLC	Not less than 1/8	910/642	13-7-29.1
38		Heirs of Samuel Wilson	Heirs of Samuel Wilson	Not less than 1/8		13-7-28
39	WV-MAR-0327	Ernest Ellsworth Black, life estate; Scott A. Black, remainderman; Timothy Jon Black, remainderman	American Petroleum Partners Operating, LLC	Not less than 1/8	917/24	13-7-27
40	WV-MAR-0197	David W. Kahlbaugh	American Petroleum Partners Operating, LLC	Not less than 1/8	911/511	13-7-25
41	WV-MAR-0197	J. Kahlbaugh	American Petroleum Partners Operating, LLC	Not less than 1/8	911/511	13-7-24
42	WV-MAR-0033	Merinar and Koontz Co. d/b/a A- 1 Auto Parts	American Petroleum Partners Operating, LLC	Not less than 1/8	822/198	13-7-33

43	1444 1440 0000	Merinar and Koontz Co. d/b/a A-	American Petroleum Partners Operating,			
43	WV-MAR-0033	1 Auto Parts	LLC	Not less than 1/8	822/198	13-7-32
44	WV-MAR-0197	David W. Kahlbaugh and Delores J. Kahlbaugh	American Petroleum Partners Operating, LLC	Not less than 1/8	911/511	13-7-34
45	WV-MAR-0547	Esther M. Gamble	American Petroleum Partners Operating, LLC	Not less than 1/8	939/635	13-7-35
46	WV-MAR-0413	Andrea L. Campione, Trustee, or her Successor in Trust under Ramser Family Irrevocable Trust dated December 18, 2002	American Petroleum Partners Operating, LLC	Not less than 1/8	930/198	13-7A-34
47	WV-MAR-0510	Shelley L. Tuskey	American Petroleum Partners Operating, LLC	Not less than 1/8	935/385	13-7A-41
47	WV-MAR-0511	Charles Ray Meredith	American Petroleum Partners Operating, LLC	Not less than 1/8	935/381	13-7A-41
47	WV-MAR-0513	Amy J. Gamble	American Petroleum Partners Operating, LLC	Not less than 1/8	935/355	13-7A-41
47	WV-MAR-0537	Douglas I. Gamble	American Petroleum Partners Operating, LLC	Not less than 1/8	939/567	13-7A-41
47	WV-MAR-0546	Sherry L. Gamble	American Petroleum Partners Operating, LLC	Not less than 1/8	940/9	13-7A-41
47	WV-MAR-0568	Donna S. Kirch	American Petroleum Partners Operating, LLC	Not less than 1/8	939/605	13-7A-41
47	WV-MAR-0595	Kathryn J. Mercurio	American Petroleum Partners Operating, LLC	Not less than 1/8	940/489	13-7A-41
47	WV-MAR-0602	Martha Ann Migliorini	American Petroleum Partners Operating, LLC	Not less than 1/8	940/467	13-7A-41
47	WV-MAR-0620	Cynthia M. Gamble	American Petroleum Partners Operating, LLC	Not less than 1/8	942/322	13-7A-41
48	Pending	James Archbold and Denise Archbold	American Petroleum Partners Operating, LLC	Not less than 1/8	720/580	13-7A-33
49	WV-MAR-0646	Charles W. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/58	13-7-37

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49	WV-MAR-0647	Richard J. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/63	13-7-37
49	WV-MAR-0648	Christian A. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/68	13-7-37
50	WV-MAR-0646	Charles W. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/58	13-7-38
50	WV-MAR-0647	Richard J. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/63	13-7-38
50	WV-MAR-0648	Christian A. Caldwell	American Petroleum Partners Operating, LLC	Not less than 1/8	945/68	13-7-38

Note: The parcels that say pending were acquired in trades from other operators (the assignments are recorded in Marshall County Courthouse). Internally they haven't been assigned a Lease No. yet that is why they are listed as pending.

Note: The parcels that have no lease number or recording information we will be pursuing force pooling procedures. Heirship was run on 13-7-28 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. Attemps were made on 13-7-28, 13-10-8.4, 13-10-9 to contact and verify owners to sign leases.

