

west virginia department of environmental protection

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

November 24, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-702415, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions,

please free to contact me at (304) 926-0499 ext. 1654

James Martin

Chief

Operator's Well No: 625507

Farm Name: HALL, CHARLES & PAUL

API Well Number: 47-702415

Permit Type: Plugging

Date Issued: 11/24/2014

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

5)	Location: Ele	evation 1009'	Watershed Plantation Fork
		strict Oller	County Braxion Quadrangle Gassaway
5)	Well Operator	Chesapeake Appalachia, LLC	7) Designated Agent Jessica Greathouse
1	Address	P.O. Box 1300	Address P.O. Box 6070
		Jane Lew, WV 26378	Charleston, WV 25301
)	Oil and Gas In	nspector to be notified	9) Plugging Contractor Name R&J Well Service
	Address PO B		Address P.O. Box 37
	The second secon		
pt	Work Order: 7. IRU service rig & needed BOP et bis of 6% gelled water or break pen perforations (1,578" – 1,818"	quipment. NOTE: Blow down well to pit or tank. RIH wi surface with circulation. Pump 31 sks of Class A cemen). Flush tubing with 8 bbls 6% gelled water. Top of plug	Hueysville, KY 41640 Inner of plugging this well is as follows: th additional tubing and tag the permanent bridge plug tocated @ 1,900', Load hole with 31 Ifor 372' cerrient plug from the top of permanent bridge plug @ 1,900' and covering the It to be ~1,528'. TOOH * 300' with 2 3/8' tubing. SD & WOC for 8 hours.
MI b opp RI W TO	Work Order: 7. IRU service rig & needed BOP et al. IRU service right	The work order for the maguipment. NOTE: Blow down well to pit or tank. RIH wisurface with circulation. Pump 31 sks of Class A cemen). Flush tubing with 8 bbls 6% gelled water. Top of plug 1,528'. Plug must be at 1,528'or higher; Add additional sure casing is free at or deeper than 1,280'. NU 'B' Second Bond Log). TIH w/ 2 3/8" tubing to 1,330' (50' inside of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub), flush tubing with the state of 4 1/3" & 70' above casing stub).	nner of plugging this well is as follows: th additional tubing and tag the permanent bridge plug tocated @ 1,900', Load hole with 31 tfor 372' cerrient plug from the top of permanent bridge plug @ 1,900' and covering the to be ~1,528'. TOOH * 300' with 2 3/8' tubing. SD & WOC for 8 hours.
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DRIVING DIRECTIONS

Contact Field Personnel

SCOPE OF OPERATION

- Safety is the highest priority. Control costs and avoid unnecessary expenditures.
- TIH with 2-3/8" tubing to PBTD of 1,540".
- 3. Pump required cement and gel plugs per WV DEP state requirements
- 4. Plant a well monument with WV State API number

PROCEDURE

- Contact the WV State Inspector 48 hours prior to operations.
- Safety is the highest priority. Hold wellsite safety meetings prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
- MIRU construction equipment if necessary to repair road / location in order to get workover rig
 in. Remove any tanks, separators, well lines, meter runs, exc.
- MIRU service rig & needed BOP equipment. NOTE: Blow down well to pit or tank.
- RIH with additional tubing and tag the permanent bridge plug located @ 1,900°.
- Load hole with 31 bbls of 6% gelled water or break surface with circulation.
- Pump 31 sks of Class A cement for 372' cement plug from the top of permanent bridge plug

 1,900' and covering the open perforations (1,578' 1,818'). Flush tubing with 8 bbls
 gelled water. Top of plug to be ~1,528'
- 8. TOOH \pm 300' with 2 3/8" tubing. SD & WOC for 8 hours.
- RIH w/ sandline tools & tag plug @ 1,528'. Plug must be at 1,528'or higher; Add additional cement if needed.
- 10. ND BOP & 'B' Section. Weld on 4 ½" pull sub. RU casing jacks and remove slips. Work casing for free point and ensure casing is free at or deeper than 1,280'.
- NU 'B' Section & BOP. RU Wireline and cut 4 ½" 10.5# casing @ 1,280". Pull and laydown casing. (Note TOC squeeze @ 1,380" per Cement Bond Log)

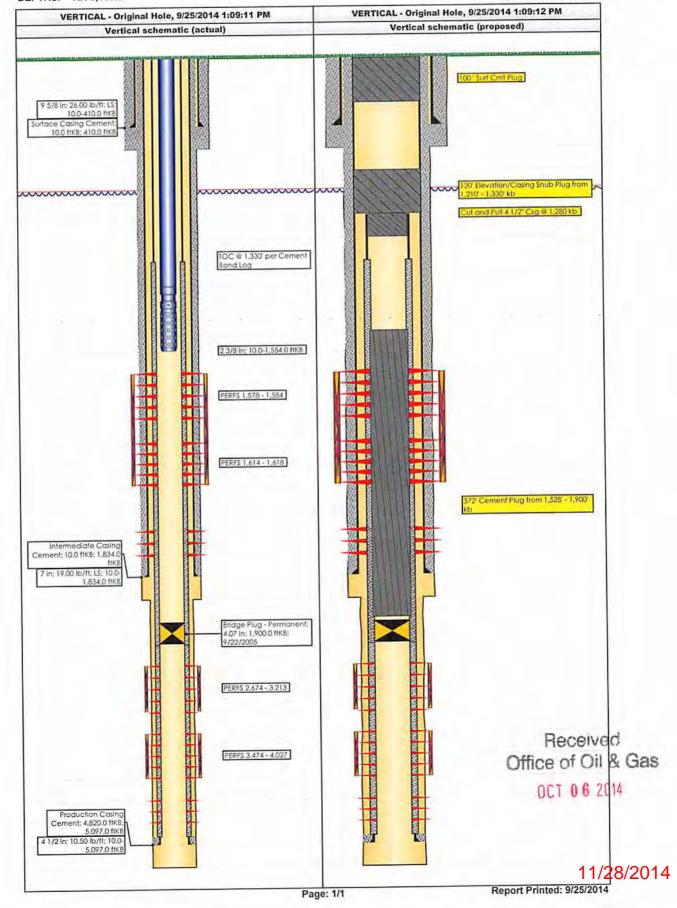
of give m

- 12. TIH w/ 2 3/8" tubing to 1,330' (50' inside of 4 ½" casing). Circulate hole w/ 54 bbls of 6% gelled water. Pump 20 sks of Class A cement for 120' elevation/casing snub plug (50' inside of 4 ½" & 70' above casing stub), flush tubing with 6 bbls 6% gelled water.
- 13. TOOH \pm 300' with 2 3/8" tubing. SD & WOC for 8 hours.
- 14. TIH w/ 2 3/8" tubing & tag plug @ 1,210'. Plug must be at 1,210' or higher; Add additional cement if needed.
- 15. TOOH w/ 2 3/8" tubing to 100' and pump 22 sks of Class A cement for 100' surface cement plug, TOOH w/ tubing.
- 16. Top off well with required Class A cement as needed.
- 17. Install a 36 inch casing monument w/ 2" vent. Install a Aluminum plat monument with ALL required WV dates and WV API number.
- 18. RDMO all service equipment providers and reclaim location to WV State requirements.

Current Wellbore Schematic

WELL (PN): CHARLES & PAUL HALL 1 (625507)
FIELD OFFICE: MARCELLUS SOUTH
FIELD:
STATE / COUNTY: WEST VIRGINIA / BRAXTON
LOCATION: T/D OTTER, Q-GASSAWAY
ROUTE:
ELEVATION: GL: 1,260.0 KB: 1,270.0 KB Height: 10.0
DEPTHS: TD: 5,165.0

API #: 4700702415 Serial #: 2415 SPUD DATE: 6/7/2005 RIG RELEASE: 6/16/2005 1ST SALES GAS: 1ST SALES OIL: CURRENT STATUS: T/A



Current Wellbore Schematic

WELL (PN): CHARLES & PAUL HALL 1 (625507)
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Serial #: 2415
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RIG RELEASE: 6/16/2005
1ST SALES GAS:
1ST SALES GAS:
CURRENT STATUS: T/A

MD	TVD	iginal Hole, 8/7/2014 10:	TO TO FIN	Surface Ca		Mud W	eight	Cu	t Pull Date			Depth Cut Pull (f	tKB)
KB)	(ftKB)	Vertical schematic	(actual)	1		10	orift	-	6.31	Тор			
				Item Des				t (lb/tt)		Thread	Top (ftKB		
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9.6	ľ	COMPANY OF STREET PARKS OF THE		Intermediat	e Casing	; Set @	1,834	.0 ftK	B ; Or	iginal l	Hole	Depth Cut Pull (I	eVD)
		9 5/8 in; 26.00		Set Tension (Hips)		Mud W	leight	Cu	It Pull Date			Depth Cot Full (ind)
35.0		Ib/ft; LS; 10.0-		Reserve	0D (m) II		Orift (in) V	h (in/h)	Grade	Top Thread	Top (ftKE	Btm (ftKi	B) Len (ft)
		410.0 ftKB	8	Item Des Casing Joints	OD (in) II	J (in)	uni v	19.00		37114	10		
		*******				0.10	F 007	N GAVE	· Orli	ninal Li	olo	1	
525.9		6		Production Set Tension (Nps)	Casing;	Set @	5,097.1	JILKE	ut Pull Date	gillai ri	Ole	Depth Cut Pull o	fIXB)
		600				-	Orift I	1		Тор			
526.9				Item Des		O (in)		Vt (ID/It)		Thread	Top (ftKE		
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				Top of Cemen	Pump St	art A	mount		77.00		V	of Pumped	Yield
578,1		l X		Fluid	Date	(sacks)		Class	Dens	(lb/gal)	(bbl)	(ft³/sack)
		1	H H	Description:	Intermediate	e Casing	Cement			1			
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613.8	1			Description:	Production	Casing C	ement		_	1	_		
			# #	4,820.0-5,0								25-1016-	
A18.1				Top of Cemer	nt (ftKB): 4		To	p Meas	surement	Method	: Cement	ond Log	Yield
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814.0	1. 1	1		6 - January	Cament Co	110070							
0140		1		Description: 1,920.0-4,8		Deeze							
				Top of Ceme	nt (ftKB):			p Mea	suremen	Method		Vol Pumped	Yield
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			1 1	Top of Ceme		1,380.0	Te	ор Меа	suremen	t Method	: Cement	Bond Log	1 35-14
				Fluid	Pump S Date	tart	Amount (sacks)		Class	Dens	(lb/gal)	(bbl)	Yield (ft³/sack)
1,599.9		Bridge Plug -		Fluid	Date		(suons)		51055	4			
		Permanent; 1,900.0-1,902.0	- X	Tubing St	ring: Tub	ing - P	roduct	ion		VII Date	104	Pull Date	Depth Cut Pull (ft.
1,901.9	-	ftKB; 4.07 in		Set Depth (ftr/8) 1,554.	Wellbore Original H	lole	R	10/17		Oll Deta	001	-	STATE OF THE STATE OF
				NAME OF		OD (in) I	D (in)	Drift (in)	(th/dt)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft) Jts
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			H	Perforated Jo		2 3/8				_	derive.		
3,212.6	0		N .	Perforat	Tons							Shot	
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3,474				Date		Zone			Top (ftK)		m (ftKB) 1,584.0		Current Status
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2000				9/22/2005					1,81	4.0	1,818.0		
				8/5/2005	11 Carry 1997	SHALE UP		_	2,67		3,213.0 4,027.0		
	0			8/5/2005 7/21/2005	DEVONIAN	SHALELW	H. Uriginal	r-care	4,31		4,322.0		
4 026	9			Stimula	tions &	Treat	ments	3					
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4.321	a e			1,578.0 DEVONIA	Vax Btm De 1,618.0 IN SHALI Max Btm De 3,213.0	E UPR, Total Clean E LWR, Total Clean	Stage Avg for	at Pr	oamed	Acid F	rac, 8/9	/2005	11/

WELL DATA

ocation (Surface) Lat. 38.698 Long.	1g80.801
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CASING AND TUBULAR DATA

STRING	SIZE	WEIGHT/GRADE	DEPTH
Intermediate	7'	19 lb/ft; LS	1,834
Production	4 1/2"	10.5 lb/ft; J-55(assumed)	5,097

PRESSURE AND DIMENSIONAL DATA

SIZE	WEIGHT	GRADE	BURST	COLLAPSE	DRIFT
7"	19	LS	Unknown	Unknown	Unknown
4 1/2"	10.5	J-55 (assumed)	4,790	4,010	3.927"
2 3/8"	4.7 (assumed)	J-55 (assumed)	7,700	8,100	1.901"

CAPACITIES

SIZE	WEIGHT	CAPACITY (FT^3/FT.)	CAPACITY (BBL/FT.)
7"	19 lb/ft	0.2294 (calculated)	0.0409 (calculated)
4 1/2"	10.5 lb/ft	0.0895	0.0159
2 3/8"	4.7 lb/ft (assumed)	0.0216	0.0038

WELLHEAD EQUIPMENT

COMPONENT	SIZE & RATING
Manufacturer	?
Tubing Spool	?
Casing Spool	?
Bradenhead	?

Received Office of Oil & Gas

DCT 06 2014

WR-35

Farm name: MOYERS

LOCATION: Elevation: 1062

DATE: 03/28/2005 API#: 47-007-02415

Operator Well No.: 625509

Quadrangle: GASSAWAY

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

COLUMBIA NATURAL RESOURCES	Casing & Tubing	Used in Drilling	Left in well	Cement fill up Cu. Ft.
Address: Rt. 1, Box 107-10	13-3/8	25	25	N/A
Buckhannon, WV 26201	9-5/8	398	398	CTS
Agent: Carl F. Starr	7	1790	1790	CTS
nspector: Craig Duckworth	4-1/2	5442	5442	235 SXS
Date Permit Issued: 03/28/05	11	1	-	
Date Well Work Commenced: 05/25/05	-			
Date Well Work Completed: 09/01/05	1111			
Verbal Plugging:				
Date Permission granted on:				-
Rotary X Cable Rig	Hall go			
Total Depth (feet): 5501				
Fresh Water depths (ft): 360		1		
Salt water depths (ft): None				
OPEN FLOW DATA				
OPEN FLOW DATA Producing formation Shale/Siltstone Gas: Initial open flow N/A MCF/d	Oil: Initial	open flow	MA Bond	
Coal Depths (ft): OPEN FLOW DATA Devonian Producing formation Shale/Siltstone Gas: Initial open flow N/A MCF/d Final open flow 698 MCF/d	Oil: Initial o	pen flow	I/A Bbl/d	
Coal Depths (ft): OPEN FLOW DATA Devonian Producing formation Shale/Siltstone Gas: Initial open flow N/A MCF/d Final open flow 698 MCF/d Time of open flow between initial and	Oil: Initial o	pen flow	I/A Bbl/d	
Coal Depths (ft): OPEN FLOW DATA Producing formation Shale/Siltstone Gas: Initial open flow N/A MCF/d Final open flow 698 MCF/d Time of open flow between initial and Static rock Pressure 685 psig (s	Oil: Initial o Final o final tests urface pressure)	pen flow	N/A Bb/d Bb/d Hours	
Coal Depths (ft): OPEN FLOW DATA Producing formation Shale/Slitstone Gas: Initial open flow N/A MCF/d Final open flow 698 MCF/d Time of open flow between initial and Static rock Pressure 685 psig (s	Oil: Initial of Final of final tests	pen flow	N/A Bbl/d I/A Bbl/d Hours 2084-2135	
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FROM	то	ROCK TYPE (described rock types and other minerals penetrated and record occurrences of oil, gas and water from surface to total depth)				
0	1508		WATER:	Depth (ft)	Amount	Type
1508		Maxon Sandstone	- 11.11.1.1.1.1	360	1/3"	fresh
1565		Shale	-	200		110311
1626		Maxon Sandstone				
1665		Shale				_
1712		Little Lime				
1784		Blue Monday Sandstone	1			_
1784		Big Lime	7			
1940		Injun Sandstone				
1992		Pocono Shale	GAS CHECKS:	Depth(ft)	MCF/D	
2084		Weir siltstone	- GING CALLOND.	820	Odor	
2143		Shale		1988	NS	
2190		Devonian Shale	+	2105	Odor	
2170	5512		1	2175	NS	
	22.2		7	2500	NS	
		· · · · · · · · · · · · · · · · · · ·	1	3200	NS	
			1	3733	Odor	
_			1	4201	NS	
-			1	4728	NS	
			1	4/20	No	
			8			
			OIL SHOWS:	Depth	Amount	
			Local Scotter	-		
				s (4595 - 460	Shale Stage : Siltstone Stage	2 ge 3
			STIMULATION: 06-27-05			
			Frac Stage 1 w/17h Ibs 20/40 sand. Fr			
			434 Mscf N2, 30,5 15% HCl acid, 354	00 lbs 20/40 s Mscf N2, 30,	and, Frac Stag 500 lbs 20/40	e 3 w/14 bl
			Frac Stage 4 w/6 b 44,200 lbs 20/40 sa	bls 15%HCl a	cid, 331 Mscf	N2,
						-3

Received Office of Oil & Gas

OCT 06 2014

4700702415

11/28/2014

State of West Virginia
Department of Energy
Division of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Discharge Date(s) From: (MMDDYY) 2-5-05 To: (MMDDYY) 1-10-00 1-11-00 Discharge Times: From 2.30 pm, 1.30 pm, 2.30 pm, 2.30 pm = 2 Disposal Option Utilized: UIC (2);	De, 1-9-06 ppm, 3:30pm	25507 1-4-0 ₀ , 1-5		District Well N		Braxton	County:	07-02415 : Hall	Farm Name:
Disposal Option Utilized: UIC (2): Permit No. Centralized Facility (5): Permit No. Reuse (4): Alternate Permit Number: Offsite Disposal (3): Site Location: Land Application (1): XX (Include a topographical map of the Area.) Other method (6): (Include an explanation) Follow Instructions below to determine your treatment category. Optional Pretreatment test: OOOO CI-mg/l DO Mg/l 1. Do you have permission to use expedited treatment from the Director or his representatives? (Y/N) N If yes who? , and place a four(4) on line 7. If not go to line 2 2. Was Frac Fluid or flowback put into the pit? (Y/N) If yes go to line 5 if not go to line 3	1-11-Clo	MDDAA) 1-10-00		nm :	-5-05	YY) [2.	: (MMDI	Date(s) From	Discharge Discharge Ti
Centralized Facility (5): Reuse (4): Alternate Permit Number: Offsite Disposal (3): Land Application (1): XX X (Include a topographical map of the Area.) Other method (6): (Include an explanation) Follow Instructions below to determine your treatment category. Optional Pretreatment test: Optional Pretreatment test: Optional Pretreatment test: (Y/N)		4.00PH		PHIL.	Dorain, 1.C		I KUNDIN	mieo, rron	2,000,000
Reuse (4): Alternate Permit Number: Offsite Disposal (3): Site Location: Land Application (1): XX	IDEAL DISCHARGE			lo	Permit 1				
Offsite Disposal (3): Land Application (1): XX X (Include a topographical map of the Area.) Other method (6): (Include an explanation) Follow Instructions below to determine your treatment category. Optional Pretreatment test: O			-						
Land Application (1): XX X (Include a topographical map of the Area.) Other method (6): (Include an explanation) Follow Instructions below to determine your treatment category. Optional Pretreatment test: 10,000 Cl-mg/l DO Mg/l 1. Do you have permission to use expedited treatment from the Director or his representatives? (Y/N) 1 If yes who? , and place a four(4) on line 7. If not go to line 2 2. Was Frac Fluid or flowback put into the pit? (Y/N) 1 If yes go to line 5 if not go to line 3			_			Alternate			
Other method (6): (Include an explanation) Follow Instructions below to determine your treatment category. Optional Pretreatment test: Cl-mg/l DO Mg/l 1. Do you have permission to use expedited treatment from the Director or his representatives? (Y/N) If yes who? , and place a four(4) on line 7. If not go to line 2 2. Was Frac Fluid or flowback put into the pit? (Y/N) If yes go to line 5 if not go to line 3		on of the Area)	cal	-	the state of the s	XX X/		per production of the first of the	
Follow Instructions below to determine your treatment category. Optional Pretreatment test: \(\frac{1}{2}, \omega \infty \) \(\text{Cl-mg/l} \) DO Mg/l 1. Do you have permission to use expedited treatment from the Director or his representatives? (Y/N) \(\text{M} \) If yes who? \(\text{m} \), and place a four(4) on line 7. If not go to line 2 2. Was Frac Fluid or flowback put into the pit? (Y/N) \(\text{M} \) If yes go to line 5 if not go to line 3		ip of the Area.)	لەن						
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(Y/N) N If yes who?, and place a four(4) on line 7. If not go to line 2 2. Was Frac Fluid or flowback put into the pit? (Y/N) Y If yes go to line 5 if not go to line 3		DO M)	z/1(Cl-m	α	est: 10/	etreatment t	Optional Pre
3. Do you have a chloride value pretreatment (see above)? (Y/N) Y If yes go to line 4 if not go	to line 3	four(4) on line 7. If no yes go to line 5 if not	ace /	_ , and p (Y/N) _	t into the pit	wback pu	If yes what I will be seen in the seen in	Y/N) N Was Frac	(Y 2.
to line 5	4 if not go	I) Y If yes go to I	? (ee above	retreatment (le value p	e a chlori		
4. Is that chloride level less than 5000 mg/l? (Y/N) 1 If yes then enter a one (1) on line 7	line 7	then enter a one (1)	If;	M M	000 mg/l? (ess than 5	ride level	. Is that chlo	4.
5. Do you have a pretreatment value for DO? (see above) (Y/N) Y If yes then go to line 6 if not enter a three (3) in line 7	line 6 if	Y If yes then go	(Y	ee above	ue for DO? (
6. Is that DO greater than 2.5 mg/l? (Y/N) \(\sum_{\text{N}} \) If yes then enter a two (2) on line 7 If not enter a Three (3) on line 7.	not enter a	ter a two (2) on line 7	ien	_ If yes	15 (A/N) \(\sum_{\bullet} \)	n 2.5 mg/	greater tha	Is that DO hree (3) on	6. Th
7. Is the category of your pit. Use the appropriate section.		tion.	te s	appropri	r pit. Use th	ory of you	the categ	1	7. <u>III</u>
Name of Principle Exec. Officer Michael John					ael John	Mich	Officer	nciple Exec	Name of Prin
Title of Officer Vice President, Operations				cations					
Date Completed: January, 2006					2006	anuary,	(2	eted:	Date Comple
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Office of Oil & Gas Signature of a Principle Exec. Officer or Authorized agent DCI 06 2014 S.S. SERVICES	nals te, and Pine I & Gas 2014 VICES	inquiry of those indiv formation is true, accordise information, include Office of the DCT of S.S. SEL	on i	at, based elieve tha or submi	nments and to formation I b ant penalties	the attaching the in e significant.	ent and al for obtain at there an aprisonme	n this docur responsible am aware t f fine and in	submitted on immediately complete. I a possibility of
Signature Rt. 71, Box 28B Glenville, WV 26351					iture	Signa		1	- 1

Category I Sampling Results API NO. 47 - 007-02415

	Predischarge		Discharge		
Parameter	Limit	Reported	Limits	Reported	Units
PH	6-10		6-10		S.U.
Settling Time	5		N/A	N/A	Days
Fe	6	AP	6	-11	mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	.5		.5		mg/l
C1	5000		5000		mg/I
Oil	Trace		Trace	-	Obs.
TOC			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Al***			Monitor	-	mg/l
TSS			Monitor	Q#II	mg/l
Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gals.
Flow			Monitor		Gals.
Disposal Area			Monitor		Acres
	orted if the pH is a	bove 9.0	- Are seeding	-	_ 110103

Category 2 Sampling Results API NO. 47 - 007-02415

		Predischarge		Discharge	
Parameter	Limit	Reported	Limits	Reported	Units
PH	6-10		6-10		S.U.
Settling Time	10		N/A	N/A	Days
Fe	6		6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	.5		.5		mg/l
Cl*	12,500		.12,500		mg/I
Oil	Trace		Trace		Obs.
TOC			Monitor		mg/l
TSS			Monitor	1	mg/l
Oil and Grease			Monitor		mg/l
A1***			Monitor		mg/l
Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gals.
Flow			Monitor	-	Gals.
Disposal Area			Monitor	R	ecalyad
* Can be 25,000 v	vith inspectors a	oproval,		Office	of Oil & Gas
	(Inspector)		Date:	00	7 0 6 2014
** Include a decor	intion of vour or	motion toolseine		- 415	

** Include a description of your aeration technique.

*** Al is only reported if the pH is above 9.0

WR-34 Page 3 of 3 Category 3 Sampling Results API NO:

47-007-02415

Predischarge Discharge Limit Reported Limits Reported Units Parameter 9.00 pH 6-10 5-10 S.U Settling Time 20 Days CI* 12,500 12,500 3:790 mg/l Obs. Oil Trace Trace . TOC** Monitor 104 mg/l A1*** Monitor: 6.14 mg/l mg/l' TSS Monitor 43 Mn Monitor 0.09 mg/L Monitor Monitor 37,800 Volume Gals. Monitor 30 Gals/M Flow Monitor ND mg/l Grease and Oil Disposal Area Monitor Acres * Can Be 25,000 with inspectors approval, (Inspector) Date:

** Include a description of your aeration technique.

*** Al is only reported if the pH is above 9.0

Aeration Technique #51

Calegory 4 Sampling Results API NO:

	Predischarge	Discharge
		Limits Reported Units
pH	6-10	6-10 S.U
Settling Ti	me 4 1 Francisco	N/A N/A Days
Fe	Monitor	Monitor mg/l
D.O	Monitor	Monitor mg/l
Settleable !	Sol. Monitor	Monitor mg/l
CI*	12,500	12,500mg/l
Oil	Trace	Trace Obs.
TOC		Monitor mg/1
TSS		Monitor mg/l
Oil and Gr	ease	Monitor mg/l
Mit	Monitor	Monitor mg/l
Volume		Monitor Gals.
Flow	apply made in	2001.4 4 4 4 11 11 11 11 11 11 11 11 11 11 11
Activated (Carbon 175	N/A N/A a lb /bl
Date Site I	Reclaimed N/A N/A	10 Days from Dis.
Disposal A	rea - Sales and a sales	Monitor Acres
* Can Be 2	25,000 with inspectors ap	Broval,
Art Art	(Inspector)	Date:
	at the way to get the granted and the house of the	

5. 5 - 1.- 1.- 1.5 1.5 2. 40 2 Ed. - 1. 20 - 1.

Received Office of Oil & Gas

OCT 06 2014.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Joe Manchin III, Governor Stephanie R. Timmermeyer, Cabinet Secretary www.wvdep.org

November 30, 2006

FINAL INSPECTION REPORT

WELL PERMIT RELEASED

COLUMBIA NATURAL RESOURCES, LLC,

The FINAL INSPECTION REPORT for the permit, API Well Number: 47-702415, issued to COLUMBIA NATURAL RESOURCES, LLC, and listed below has been received in this office, and reclamation requirements approved. The well designated by the permit number below has been released under reclamation and will remain under your bond.

JAMES MARTIN Chief, Office of Oil and Gas

Operator: COLUMBIA NATURAL RESOURCES, LLC

Operator's Well No: 625507

Farm Name: HALL, CHARLES & PAUL

API Well Number: 47-702415

Date Issued: 03/28/2005 Date Released: 11/30/2006

Promoting a healthy environment.

Received Office of Oil & Gas

DCT 06 2014

WW-4A Revised 6-07

1) Date:	September 25	5, 2014			
2) Operator's Well Number 625507					
3) API Well No	.: 47 -	007	_ 4	02415	

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

A CONTRACTOR OF THE PROPERTY O		(a) Coal Operator
(a) Name	Chad Van Buren	Name
Address	HC 84 Box 54-B	Address
414	Frametown, WV 26623	- 4) G 10 - // 11 D 1 - //
(b) Name	Charles and Burnice Hall	(b) Coal Owner(s) with Declaration
Address	HC 84 Box 53	Name See Attachment #1
	Frametown, WV 26623	Address
(c) Name		Name
Address		Address
riuuress		- Indices
) Inspector	Bryan Harris	(c) Coal Lessee with Declaration
Address	PO Box 157	Name
-1441000	Volga, WV 26238	Address
Telephone	304-553-6087	
(2) The	its and the plugging work order; and plat (surveyor's map) showing the well location	
Take noticaccompanion the Appli	plat (surveyor's map) showing the well location in you received these documents is that you have rig you are not required to take any action at all. the that under Chapter 22-6 of the West Virginia Codying documents for a permit to plug and abandon and, with respect to the well at the location described ocation, and the plat have been mailed by registered	ghts regarding the application which are summarized in the instructions on the reverses sid de, the undersigned well operator proposes to file or has filed this Notice and Application ar well with the Chief of the Office of Oil and Gas, West Virginia Department of Environment on the attached Application and depicted on the attached Form WW-6. Copies of this Notic d or certified mail or delivered by hand to the person(s) named above (or by publication
The reaso However, Take noti accompan Protection the Appli	plat (surveyor's map) showing the well location you received these documents is that you have rig you are not required to take any action at all. the that under Chapter 22-6 of the West Virginia Codying documents for a permit to plug and abandon a set, with respect to the well at the location described of cation, and the plat have been mailed by registered cumstances) on or before the day of mailing or delivered.	ghts regarding the application which are summarized in the instructions on the reverses sid de, the undersigned well operator proposes to file or has filed this Notice and Application ar well with the Chief of the Office of Oil and Gas, West Virginia Department of Environment on the attached Application and depicted on the attached Form WW-6. Copies of this Notic d or certified mail or delivered by hand to the person(s) named above (or by publication
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The reaso However, Take noti accompan Protection the Appli	plat (surveyor's map) showing the well location you received these documents is that you have rig you are not required to take any action at all. The that under Chapter 22-6 of the West Virginia Codying documents for a permit to plug and abandon a second, with respect to the well at the location described of cation, and the plat have been mailed by registered cumstances) on or before the day of mailing or deliver the second with the company of the second well of the second with the second	ghts regarding the application which are summarized in the instructions on the reverses side, the undersigned well operator proposes to file or has filed this Notice and Application are well with the Chief of the Office of Oil and Gas, West Virginia Department of Environment on the attached Application and depicted on the attached Form WW-6. Copies of this Notice of or certified mail or delivered by hand to the person(s) named above (or by publication for the Chief. Chesapeake Appalachia, LLC Dee Southall Regulatory Analyst II P.O. Box 1300
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Attachment #1

Coal

Chad Van Buren

HC 84 Box 54-B

Frametown WV 26623-9619

Charles and Burnice Hall

HC 84 Box 53

Frametown WV 26623

Tonner Family Trust

950 Knox McRae Drive

Titusville, FL 32780-6149

Claudia Maggard

3384 Cameron Chase Drive

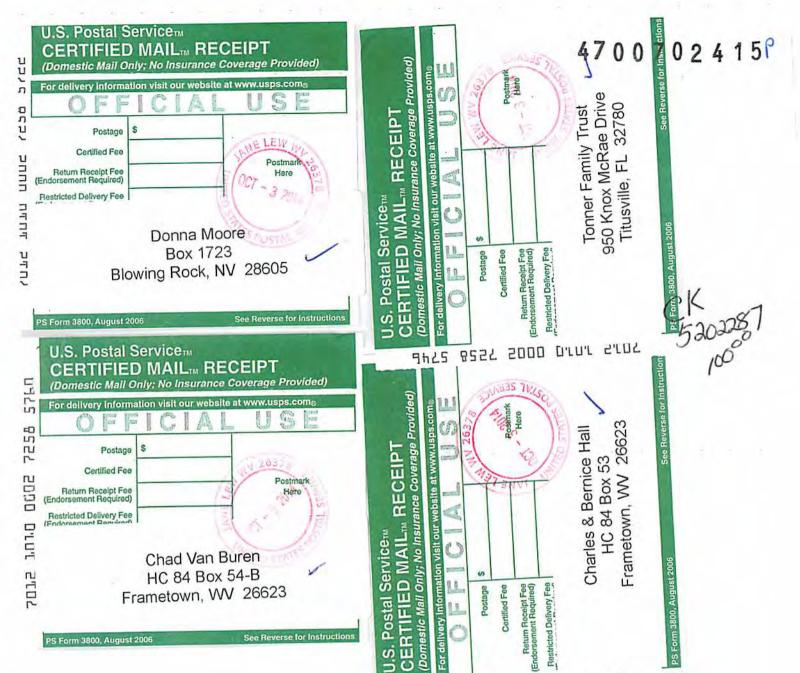
Tallahassee, FL 32317-2872

Donna Moore

Box 1723

Blowing Rock, NV 28605-1723

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YOUR TOTO OOOS

PS Form 3800, August 2006

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age		OI						

API Number 47 - 007 - 02415 Operator's Well No. 625507

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Vatershed	Plantation Fork		Quadrangle Gassav	vay	
Elevation	1009'	County Braxton		District Otter	_
)escriptio	n of anticipated Pit	Waste: Water from plugging proces	ss		_
Vill a syn	thetic liner be used	in the pit? yes			
roposed 1		or Treated Pit Wastes: and Application			
	XX Un	derground Injection (UIC Perm	it Number 200072539/200	413175/2D0610306/2D0610317)
	Rei	use (at API Number at next anticip	ated well, API# will be include	ed on the WR34/∨ permit addendum)
	Off	Site Dispposal (Supply form W ner (Explain flowback will be put	W-9 for disposal locatio in steel tanks and reused	n) or taken to permitted disposal fac	cility
roposed '	Work For Which Pi		9.1112		
		lling	XX Swabbing		
		orkover ner (Explain	XX Plugging		
		iei (Enplain			
	1,2000, 1,	ice of Oil and Gas of the West V	irginia Department of Er	vironmental Protection. I unders	RMIT issu
aw or reg I application obtaining benalties for Company	of the permit are edulation can lead to edulation can lead to edulation can lead to edulation and all attached information, I for submitting false of Official Signature Official (Typed Na	enforceable by law. Violations of enforcement action. Ity of law that I have personall achments thereto and that, base believe that the information is information, including the possible poss	irginia Department of End any term or condition y examined and am fand on my inquiry of the true, accurate, and com	of the general permit and/or othen niliar with the information submose individuals immediately resplete. I am aware that there ar	tand that t er applicat itted on the ponsible f
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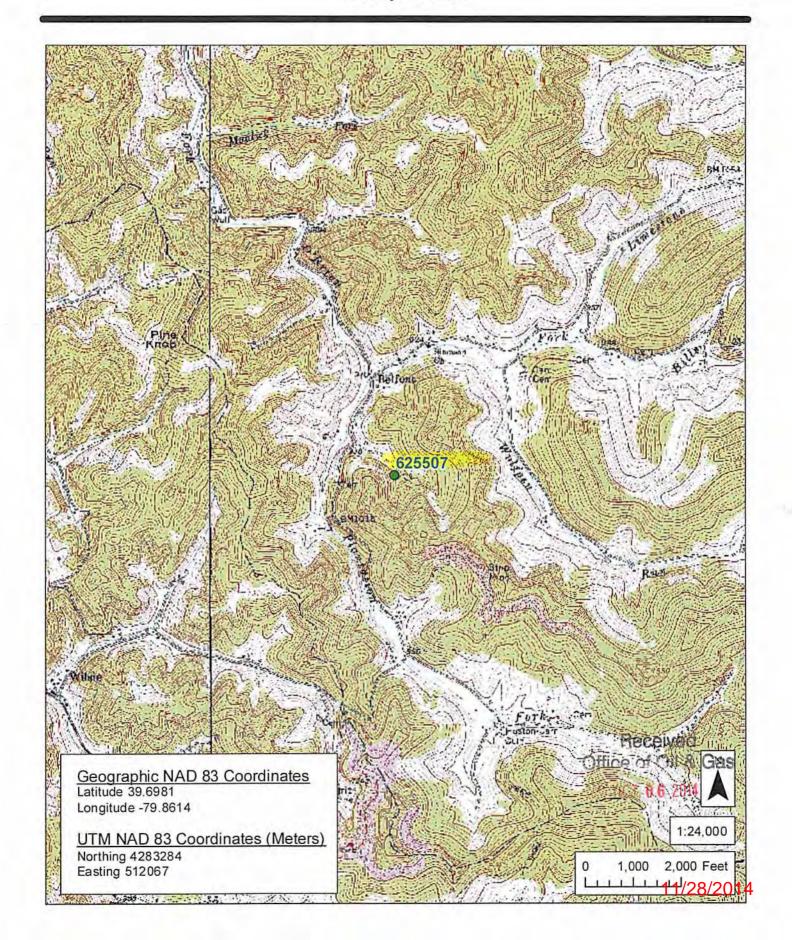
			62550
Operator's	Well	No.	0200

	LEGEND				
Property Boundary	Diversion Control of the Control of				
Road = = = = = = = = = = = = = = = = = = =	Spring O-				
Existing Fence — X — X — X —	Wet Spot				
Planned Fence / / /	Drain Pipe with size in inches (2)				
Stream	Waterway $\longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow$				
Open Ditch	Cross Drain				
Rock 688888	Antificial Filter Strip				
North N	Pit: cut walls				
Buildings	Pit: compacted fill walls				
Water wells W	Area for Land Application of Pit Waste				
Drill site					
Proposed Revegetation Treatment: Acres Disturbed Lime	Prevegetation pH				
	Seed Mixtures				
Area I	Area II				
Seed Type lbs/acre	Seed Type lbs/acre				
Orchard Grass 20	Orchard Grass 20				
Red Top 15	Red Top 15				
White Clover 15	White Clover 15				
Attach: Drawing(s) of road, location,pit and proposed area for land Photocopied section of involved 7.5' topographic sheet.	application.				
Plan Approved by: Buyer O'len					
Comments:					
Oil and Gas Inspector	Received Date: 10-2-14 Office of Oil & Gas				
Field Reviewed? () Yes (X) No OCT 06 2014				

CHESAPEAKE APPALACHIA, L.L.C.
Topographical Map of Well 625507 (Charles and Path Hall 10 0 7 0 2 4 1 5 P

API = 47-07-02415

Field Office - Jane Lew County - Braxton



API:47-007-02415



West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

WELL NO.: 625507

FARM NAME: Hall, Charles & Paul
RESPONSIBLE PARTY NAME: Chesapeake Appalachia, LLC
COUNTY: Braxton DISTRICT: Otter 3
QUADRANGLE: Gassaway 300
SURFACE OWNER: Chad Van Buren & Charles and Burnice Hall
ROYALTY OWNER: Donna Moore, Claudia Maggard, and Tonner Family trust
UTM GPS NORTHING: 4283284
UTM GPS EASTING: 512067
GPS ELEVATION: 1009'
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential
11/28/2014



Danielle Southall Regulatory Analyst II

October 3, 2014

Mr. Jeff McLaughlin WV Department of Environmental Protection Office of Oil & Gas 601 57th Street Charleston, WV 25304

Re: Plugging Permit for well #625507

Dear Jeff:

Enclosed please find Plugging Permit Application for the above captioned well. This well is situated in Braxton County, West Virginia.

If you have any questions or require additional information, please do not hesitate to contact me at (304) 517-1416.

Sincerety,

Chesapeake Appalachia, LLC

Dee Southall

Enclosures

Received Office of Oil & Gas

OCT 06 2014