



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, August 4, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

CHESAPEAKE APPALACHIA, L.L.C.
6100 N. WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for 21017
47-023-00031-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 21017
Farm Name: THOMPSON, HARRY & JANE⁺
U.S. WELL NUMBER: 47-023-00031-00-00
Vertical Plugging
Date Issued:

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.

4702300031P

WW-4B
Rev. 2/01

1) Date July 7, 2022
2) Operator's
Well No. LUCY C HIPP 1
3) API Well No. 47-23 - 00031

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 3251.46' Watershed ABRAM CREEK
District UNION County GRANT Quadrangle GREENLAND GAP

6) Well Operator CHESAPEAKE APPALACHIA LLC 7) Designated Agent ERIC HASKINS - MANAGER REG OPS
Address PO BOX 18496 Address 14 CHESAPEAKE LANE
OKLAHOMA CITY, OK 73154-0496 SAYRE, PA 18840

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name GAYNE J KNITOWSKI Name PLANTS AND GOODWIN
Address 601 57TH STREET SE Address 360 HIGH STREET
CHARLESTON, WV 25304 BRADFORD, PA 16701

10) Work Order: The work order for the manner of plugging this well is as follows:
SEE ATTACHED

RECEIVED
Office of Oil and Gas
JUL 18 2022
WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gayne Knitowski Date 7-11-2022
Digitally signed by Gayne Knitowski
Date: 2022.07.11 16:06:32 -0400

CHESAPEAKE

ENERGY

Lucy C Hipp 1

Grant County, WV
 Lat. 39.24169; Long. -79.18652
 API: 4702300031

Plug and Abandonment Procedure

PN: 821017
 AFE: TBD
 WO: TBD

EXECUTIVE SUMMARY

The Lucy C Hipp 1 well in Grant County, West Virginia will be plugged and abandoned. Chesapeake has agreed to P&A this well in accordance to the request of the WVDEP. No future potential remains in this wellbore.

Operational Summary:

The Lucy C Hipp 1 well was drilled & completed in 1994. The P&A will consist of pulling 2-3/8" tubing and a CIBP will be set above the top perf. A cement plug will be set in the 5-1/2" casing above the CIBP. A CBL will be run to find TOC behind 5-1/2" casing and cut pipe 100' above and pull same. All free pipe should attempt to be pulled 1-1.5x string weight. A caliper log will be run on open hole section to determine open hole size then a CBL will be run on 9 5/8" casing to verify TOC behind 9 5/8" casing. A cement plug will be set in the open hole portion and across 9-5/8" shoe. There will be a final cement plug set at surface after ensuring no annular gas exists.

CASING AND TUBULAR DATA

RKB	Variable
KOP	N/A
Depth of Top Perf (MD)	9,916'
Cement Yield	1.18 cu.ft/sk
Density	15.6 ppg

RECEIVED
 Office of Oil and Gas

JUL 18 2022

WV Department of
 Environmental Protection

Casing Detail										
String	OD (in)	ID (in)	Weight (lbs/ft)	Grade	Casing Cap (bbl/ft)	Annular Cap (bbl/ft)	Top (ft-MD)	Btm (ft-MD)	TOC	Hole Size
Conductor	16					N/A				N/A
Surface	13.325	12.5	54.5	H-40	0.1527	N/A	0	601	0	17.5
Intermediate	9.625	8.835	40	J-55	0.0758	N/A	0	3,240	0	12.25
Production	5.5	4.892	17	N-80	0.0232	0.045	0	10,159	9,200	8.75

Plug and Abandonment Procedure**ABANDONMENT PROCEDURE**

1. All personnel on site are required to have gas monitors at all times during this operation.
2. **Safety is the highest priority.** Hold PJSA meetings each morning and prior to all significant operations. Review critical parameters, objectives and emergency action plans.
3. Prior to rig arriving on site:
 - a. Make sure all casing valves are readily accessible and suck down water from the cellar.
 - b. Perform 72-hour pressure build up test on all annuli. (done)
 - c. Make sure A, B, and C section flanges are properly identified.
 - d. Verify regulatory permit and approval to plug and abandon.
 - e. Notify WVDEP, municipality and Landowner 1 week prior to commencing operations.
4. MIRU on containment
5. Kill well w/ 230bbl FW
6. Plug #1 (CIBP) RU wireline with 5k lubricator stack. Set CIBP @ 9,750'
7. ND well head & NU 5K double ram BOP
8. TIH with 2-3/8" EUE work string and tag CIBP.
9. Plug #2 (Bottom Hole Plug) Pump balanced cement plug on top of CIBP from 9,750' – 9,570' with Class H neat slurry (4.2bbl, 20sks). Displace with 37.1 bbl fresh water. POOH/WOC. Monitor pressure build on 5-1/2" casing.
10. RU wireline. Tag Plug #2 at ~9,570.' Run CBL on 5-1/2" casing to find TOC behind pipe (est. 9,200'). RU jet cutter and cut 5-1/2" casing at ~9,200.'
11. NU annular BOP. RU 5-1/2" casing spear and handling tools. Spear production casing. Pull up to ^{5%} ~~10%~~ over string weight (172,000lb.). If casing does not come free, consult CHK engineer and WVDEP on higher cut.
12. Plug #3 (5-1/2" Casing Stub Plug) TIH with tubing to 5 1/2" stub at ~9,200.' Pump 12.9 bbls of gel spacer followed by Class H neat slurry from 9,200' – 8,700' w/ 20% excess (44.7bbl, 213sks). Displace with 21 bbl of gel followed by 12.9 bbl FW. POOH/WOC. Monitor pressure build on 9-5/8" casing.
13. RU wireline, Tag Plug #3 at ~8,700.' Run CBL on 9 5/8" casing to verify TOC is at surface. Be prepared to jet cut 9 5/8" if un-cemented pipe exists or to perforate 9 5/8" casing. NOTE: 9 5/8" casing cannot be perforated above the 13 3/8" casing shoe at 601'. Discuss any annular gas with CHK engineer before cutting 9 5/8" or perforating. If no annular gas issues, proceed to step 11.
14. Plug #4 (9-5/8" Casing Shoe Plug) TIH with tubing to 3,340' and pump 173 bbls of gel water followed by Class A neat slurry from 3,340' – 3,140' w/ 20% excess (18.3bbl, 87sks). Displace cement with 9.3 bbls of gel followed by 2.7 bbl FW. POOH/WOC. Monitor any pressure build on 13-3/8" casing.
15. Plug #5 (13-3/8" Casing Shoe Plug) TIH with tubing to Plug #4 at ~3,140.' Pull up to 701' and pump Class A ^(EXPANDING CEMENT) neat slurry from 701' – 501' (15.1bbl, 72sks). Displace with 1.9 bbl fresh water. WOC.
16. Tag Plug #5 at ~501.' RDMO. ^{GEL TO 400'.}
17. Top hole well with crushed limestone to surface. Cut, cap, and bury below grade.

Set monument per WVDEP specifications

15 a. SET 100' EXPANDING CEMENT PLUG FROM 100' TO SURFACE,

gwm

Gayne
Knitowski

Digitally signed by Gayne
Knitowski
Date: 2022.07.11 16:06:08
-04'00'

RECEIVED
Office of Oil and Gas

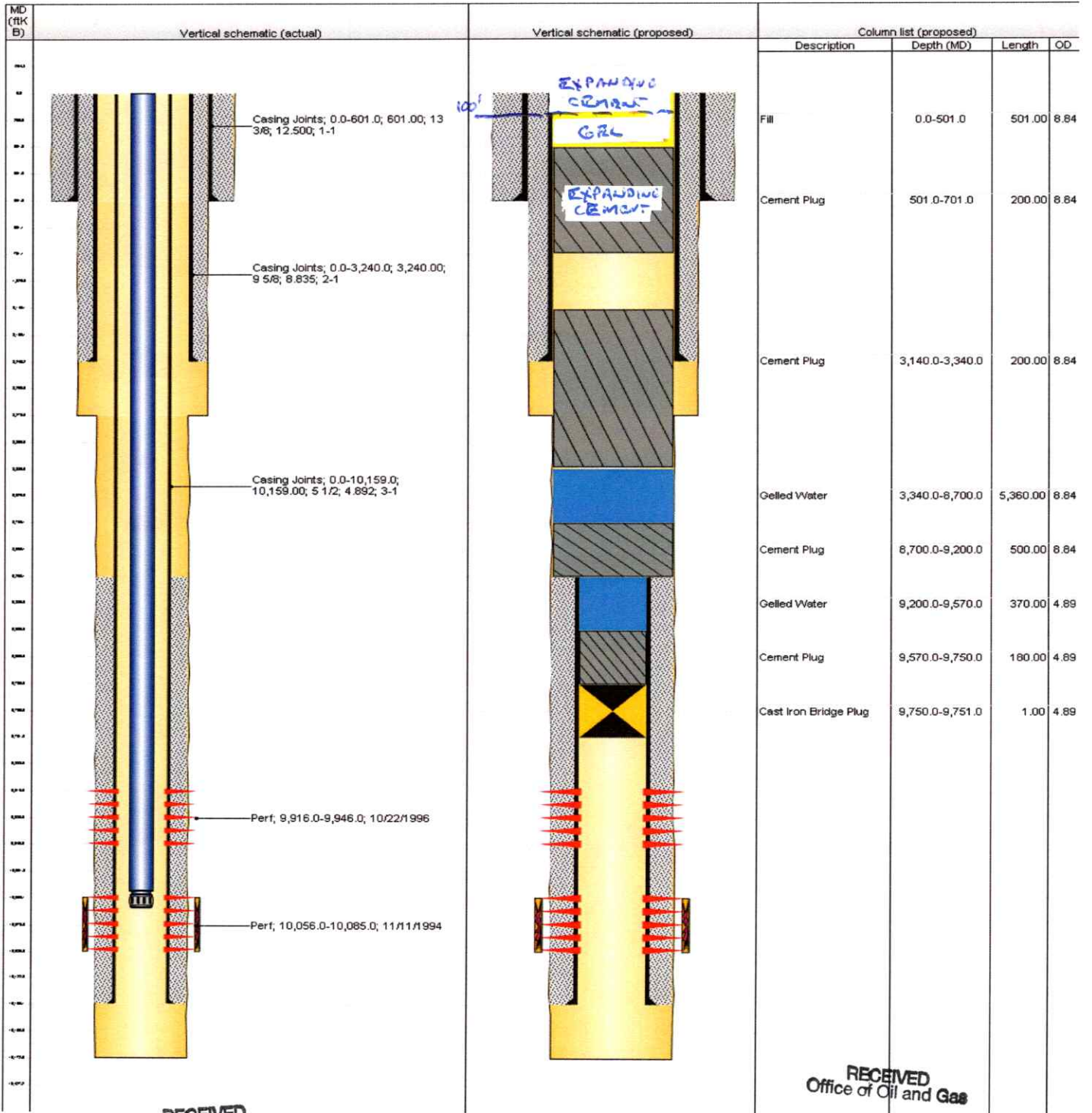
JUL 18 2022

WV Department of
Environmental Protection

Plug and Abandonment Procedure

ATTACHMENTS

- Current Well Bore Diagram Schematic
- Proposed Plugged Well Bore Diagram Schematic



RECEIVED
Office of Oil and Gas

JUL 18 2022

RECEIVED
Office of Oil and Gas

JUL 18 2022

WV Department of
Environmental Protection

Plug and Abandonment Procedure**PERSONNEL / PHONE LIST**

Title	Name	Office	Mobile
Production Superintendent	Chris Sprute	-	(318)-771-2769
Production Manager	John Van Gels	(405)-766-8012	(636)-448-1104
Production Supervisor	Keeley Bergman	(405)-766-8438	(918)-991-5520
Production Engineer	Rachel Greening	(405) 935-2202	(817) 357-2288
Support Production Engineer	Brent Antolik	(405)-400-7461	(570)-592-1589

RECEIVED
Office of Oil and Gas

JUL 18 2022

WV Department of
Environmental Protection

WR-35

RECEIVED
WV Division of
Environmental Protection

02-Feb-94
API #47-23-00031

JAN 31 1995

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Permitting
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: HIPP, LUCY ETAL. Operator Well No. 21017

LOCATION: Elevation 3,251.46 Quadrangle: GREENLAND GAP

District: UNION County: GRANT
Latitude: 3050 Feet South of 39 Deg. 15 Min. Sec.
Longitude: 5575 Feet West of 79 Deg. 10 Min. Sec.

Company: COLUMBIA NATURAL RESOURCES
P. O. BOX 6070
CHARLESTON, WV 25362-0070

Agent: JOSEPH E. CAMPBELL

Inspector: PHILLIP TRACY
Permit Issued: 02/01/94
Well Work Commenced: 08/22/94
Well Work Completed: 12/30/94
Vertical Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 10173
Fresh water depths (ft) 380
946'
Salt water depths (ft) 3735

Casing & Tubing	Used in Drilling	Left in Well	Fill Up Cu. Ft.
13-3/8	601	585	416
9-5/8	3240	3224	1014
5-1/2	10159	10144	215
2-3/8	-	1066 <i>10066</i>	-

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 365 - 370

OPEN FLOW DATA

Producing formation Corriganville Pay zone depth (ft) 10120
 Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
 Final open flow 500 MMCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests 168 Hours
 Static rock Pressure 3600 psig (surface pressure) after 168 Hours

Second producing formation - Pay zone depth (ft) -
 Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
 Final open flow - MCF/d Final open flow - Bbl/d
 Time of open flow between initial and final tests - Hours
 Static rock Pressure - psig (surface pressure) after - Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COLUMBIA NATURAL RESOURCES, INC.
By: Joseph E. Campbell
Date: 1-30-95

GRA 0031

WELL 21017FORMATIONS

Sand/Shale/Rock	0 - 1316	coal - 365 - 370
Greenbrier	1316 - 1706	
Koneknobs	3787 - 5683	
Scherr	5683 - 7797	
Brallier	7797 - 8838	
Harrell	8838 - 8978	
Tully	8978 - 8986	
Upper Marcells	9412 - 9562	
Purcell	9562 - 9624	
Lower Marcells	9624 - 9685	
Needmore	9685 - 9816	
Oriskany	9816 - 9997	
Heldenburg	9997 - 10055	
Shriver Chert	10055 -	
DTD	10173	

WELL 21017**Perforations:**

Stage 1, Atlas select fire .39 " 15 holes from 10056 - 10085

Fracturing:

Stage 1 Pumped crosslink water frac; Frac had 30% Pad w/1012 BBL fluid

1st stage from 10056 - 10082, 2500 gal. 15% HCL,
Fill-up Breakdown w/N₂ @ 3185 PSI, Avg. Rate 19.2 BPM
ATP 4900 PSI, Total H₂O 1012 Bbl., Total _____ sand,
_____ # Total N₂ _____ Scf.

This well was perforated 9916' to 9946' with 4 shots per foot with 0.39 diameter holes and the Oriskany formation broke down with 15 x acid. Done step rate test:

2 bbl/min.	4500 psi
3.3 bbl/min.	5000 psi
Shut down	
3.0 bbl/min.	4000 psi
3.0 bbl/min.	4800 psi
3.5 bbl/min.	5800 psi
3.0 bbl/min.	5000 psi
ISIP	4300 psi

Displace 1500 gal. of acid into formation treating psi at 5000#. It was determined that the Oriskany formation was too tight to proceed with the proposed frac job.

2-3/8" tubing was run back into well to the original T.D. The well was cleaned up and put back into production.

IR-
OBVERSE

INSPECTOR'S PERMIT SUMMARY FORM

4702300031P

RECEIVED
OFFICE OF OIL AND GAS

OCT 09 1996

WELL TYPE _____

API# 47- 23-00031

ELEVATION: 3,251.46

OPERATOR: COLUMBIA NATURAL RESOURCES, IN
Environmental Protection

DISTRICT: UNION

TELEPHONE: (304)353-5000

QUADRANGLE: GREENLAND GAP

FARM: HIPPI, LUCY ETAL.

COUNTY: GRANT

WELL NO.: 21017

SURFACE OWNER _____

COMMENTS (Y/N) _____ TELEPHONE _____

TARGET FORMATION _____

DATE APPLICATION RECEIVED 01/14/94

DATE PERMIT ISSUED: 02/01/94

DATE LOCATION STARTED _____ NOTIFIED _____ DRILLING COMMENCED _____

WATER DEPTHS 380 , 946 , _____ , _____ , _____

COAL DEPTHS 365-40 , _____ , _____ , _____ , _____

CASING

RAN 585 FEET OF 13 3/8" PIPE ON 8-2494 WITH _____ FILL UP

RAN 3240 FEET OF 9 5/8" PIPE ON _____ WITH _____ FILL UP

RAN _____ FEET OF _____" PIPE ON _____ WITH _____ FILL UP

RAN _____ FEET OF _____" PIPE ON _____ WITH _____ FILL UP

RAN _____ FEET OF _____" PIPE ON _____ WITH _____ FILL UP

PITS

PIT DISCHARGE DATE _____ TYPE _____

FIELD ANALYSIS pH _____ Fe _____ mg/l Cl _____ mg/l

D.O. _____ mg/l TOC _____ mg/l

WELL RECORD RECEIVED _____ pH OF PRE-SEEDING SOIL _____

DMR RECEIVED _____ ACRES DISTURBED _____

TONS OF LIME APP. _____

TONS OF 10-20-20 APP. _____

BALES OF MULCH APP. _____

DATE RELEASED _____

[Handwritten Signature]
INSPECTOR'S SIGNATURE

-----RECORD ALL VISITS TO THIS WELL ON BACK-----



- Table Descriptions
- County Code Translations
- Permit-Numbering Series
- Usage Notes
- Contact Information
- Disclaimer
- WVGES Mail
- "Pipeline-Plus" New

Select County: (023) Grant (Check All)

Enter Permit #: 000031

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Btm Hole Loc

WV Geological & Economic Survey: **Well: County = 23 Permit = 000031** Report Time: Thursday, August 04, 2022 8:09:23 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
4702300031	Grant	31	Greenland Gap	Greenland Gap	39.241687	-79.186178	656531.6	4345165

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4702300031	12/30/1994	Original Loc	Completed	Lucy C Hipp	21017				Lucy C Hipp et al	Columbia Natural Resources, Inc. (CNR)			
4702300031	--/--	Worked Over	Permitted	Lucy C Hipp	21017				Lucy C Hipp et al	Columbia Natural Resources, Inc. (CNR)			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FTM	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT
4702300031	--/--	--/--	3251 Ground Level	Unamed	Shriver Chert	Shriver Chert	Development Well	Development Well	Gas	Rotary	Acid-Frac	10173	10173			0	0	0	0	0	0
4702300031	--/--	--/--	3251 Ground Level	Unamed	Shriver Chert	Shriver Chert	Development Well	Development Well	Gas	Rotary	Acid-Frac	10173	10173			0	0	0	0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOTTOM	FM_BOTTOM	G_BEF	G_AFT	O_BEF	O_AFT	WATER_ONLY
4702300031	12/30/1994	Water	Fresh Water	Vertical	380		380		0	0	0	0	0
4702300031	12/30/1994	Water	Fresh Water	Vertical	946		946		0	0	0	0	0
4702300031	12/30/1994	Water	Salt Water	Vertical	3735		3735		0	0	0	0	0
4702300031	12/30/1994	Pay	Gas	Vertical	10056	Shriver Chert	10085	Shriver Chert	0	500	0	0	0

Production Gas Information: (Volumes in Mcf) * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300031	Columbia Natural Resources, Inc. (CNR)	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	1995	24,989	2,990	4,263	3,664	2,811	2,190	1,255	0	359	2,060	2,218	1,824	1,355
4702300031	Columbia Natural Resources, Inc. (CNR)	1996	9,567	1,532	988	1,103	1,017	967	883	869	647	84	89	608	780
4702300031	Columbia Natural Resources, Inc. (CNR)	1997	6,289	658	580	556	574	555	501	490	536	486	430	421	502
4702300031	Columbia Natural Resources, Inc. (CNR)	1998	4,061	421	295	226	102	519	129	138	160	195	195	650	775
4702300031	Columbia Natural Resources, Inc. (CNR)	1999	3,452	638	607	62	363	506	318	360	211	25	96	130	136
4702300031	Columbia Natural Resources, Inc. (CNR)	2000	1,090	51	108	101	102	165	102	127	112	125	33	50	14
4702300031	Columbia Natural Resources, Inc. (CNR)	2001	1,050	57	83	100	88	107	109	130	104	57	59	64	92
4702300031	Columbia Natural Resources, Inc. (CNR)	2002	926	114	117	140	125	109	61	60	53	46	39	25	37
4702300031	Columbia Natural Resources, Inc. (CNR)	2003	230	37	38	25	18	20	18	20	18	8	10	8	8
4702300031	Columbia Natural Resources, Inc. (CNR)	2004	260	8	7	4	25	37	33	37	33	18	26	16	16
4702300031	Chesapeake Appalachia, LLC	2005	1,728	71	21	115	127	194	171	194	184	183	225	166	105
4702300031	Chesapeake Appalachia, LLC	2006	1,934	107	119	193	225	243	227	245	135	155	97	164	24
4702300031	Chesapeake Appalachia, LLC	2007	1,549	30	109	94	98	219	66	160	134	217	137	144	141
4702300031	Chesapeake Appalachia, LLC	2008	2,463	208	14	132	236	177	219	237	433	162	321	178	146
4702300031	Chesapeake Appalachia, LLC	2009	3,526	48	136	224	368	155	252	442	322	362	345	545	327
4702300031	Chesapeake Appalachia, LLC	2010	4,312	290	285	471	414	527	170	222	444	463	447	430	149
4702300031	Chesapeake Appalachia, LLC	2011	3,327	141	174	272	458	277	207	252	237	227	325	621	136
4702300031	Chesapeake Appalachia, LLC	2012	17	0	0	17	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2021	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2022	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300031	Columbia Natural Resources, Inc. (CNR)	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Columbia Natural Resources, Inc. (CNR)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0

4702300031P

API	PRODUCING OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300031	Chesapeake Appalachia, LLC	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300031	Chesapeake Appalachia, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons) * 2021 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4702300031	Chesapeake Appalachia, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4702300031	Chesapeake Appalachia, LLC	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM QUALITY	DEPTH_TOP	DEPTH_BOTTOM	DEPTH	QUALITY	THICKNESS	THICKNESS	THICKNESS	QUALITY	ELEV	DATUM
4702300031	Original Loc	unidentified coal	Well Record	1316	365	Reasonable	5	Reasonable	390	Reasonable	3251	Ground Level	
4702300031	Original Loc	Big Lime	Well Record	3787	Reasonable	Reasonable	1896	Reasonable	2114	Reasonable	3251	Ground Level	
4702300031	Original Loc	Foreknobs Fm	Well Record	5683	Reasonable	Reasonable	1041	Reasonable	140	Reasonable	3251	Ground Level	
4702300031	Original Loc	Scherr Fm	Well Record	7797	Reasonable	Reasonable	150	Reasonable	8	Reasonable	3251	Ground Level	
4702300031	Original Loc	Brallier	Well Record	8838	Reasonable	Reasonable	62	Reasonable	61	Reasonable	3251	Ground Level	
4702300031	Original Loc	Harrell Sh	Well Record	8978	Reasonable	Reasonable	131	Reasonable	181	Reasonable	3251	Ground Level	
4702300031	Original Loc	Tully Ls	Well Record	9412	Reasonable	Reasonable	0	Reasonable	0	Reasonable	3251	Ground Level	
4702300031	Original Loc	Up Marcellus	Well Record	9562	Reasonable	Reasonable	0	Reasonable	0	Reasonable	3251	Ground Level	
4702300031	Original Loc	Purcell Ls Mbr	Well Record	9624	Reasonable	Reasonable	0	Reasonable	0	Reasonable	3251	Ground Level	
4702300031	Original Loc	Jo Marcellus	Well Record	9685	Reasonable	Reasonable	0	Reasonable	0	Reasonable	3251	Ground Level	
4702300031	Original Loc	Needmore Sh	Well Record	9816	Reasonable	Reasonable	0	Reasonable	0	Reasonable	3251	Ground Level	
4702300031	Original Loc	Oriskany	Well Record	9877	Reasonable	Reasonable	0	Reasonable	0	Reasonable	3251	Ground Level	
4702300031	Original Loc	Helderberg	Well Record	10055	Reasonable	Reasonable	0	Reasonable	0	Reasonable	3251	Ground Level	
4702300031	Original Loc	Shiner Chert	Well Record										

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

Sample Information:

API	CUT1_TOP	CUT1_BOT	CUT2_TOP	CUT2_BOT	CORE1_TOP	CORE1_BOT	FM1_TOP	FM1_BOT	CORE2_TOP	CORE2_BOT	FM2_TOP	FM2_BOT	SMP1	THN_SEC1	SCAN1	SLAB1	PERM1	THN_SEC2	SCAN2	SLAB2	PERM2	
4702300031																						

4702300031P

WW-4A
Revised 6-07

1) Date: 7/7/2022
 2) Operator's Well Number 21017
 3) API Well No.: 47 - 023 - 00031

**STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>UPPER POTOMAC, LLC</u>	Name _____
Address <u>PO BOX 14</u>	Address _____
<u>ELK GARDEN, WV 26717</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>UPPER POTOMAC, LLC</u>
	Address <u>PO BOX 14</u>
	<u>ELK GARDEN, WV 26717</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>GAYNE J KNITOWSKI</u>	(c) Coal Lessee with Declaration
Address <u>601 57TH STREET SE</u>	Name _____
<u>CHARLESTON WV 25304</u>	Address _____
Telephone <u>304-546-8171</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

RECEIVED
Office of Oil and Gas
JUL 18 2022
WV Department of
Environmental Protection

Well Operator CHESAPEAKE APPALACHIA LLC
 By: KERI FIENO
 Its: REGULATORY SPECIALIST
 Address PO BOX 18496
OKLAHOMA CITY, OK 73154-0496
 Telephone 405-935-1154

Subscribed and sworn before me this 11th day of July, 2022
Morgan Beuchaw Notary Public
 My Commission Expires 11/07/23

MORGAN BEUCHAW
 Notary Public
 State of Oklahoma
 Commission #11007273 Exp: 08/10/23

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Keri Fieno

From: Mailings Imaging
Sent: Thursday, July 7, 2022 3:15 PM
To: Keri Fieno
Subject: RE: Lucy C Hipp Mailing TRACKING

Classification: DCL-Internal



USPS TRACKING #



9405 5118 9956 2473 4862 51



From: Keri Fieno <keri.fieno@chk.com>
Sent: Thursday, July 07, 2022 3:07 PM
To: Mailings Imaging <mailings.imaging@chk.com>
Subject: Lucy C Hipp Mailing

Classification: DCL-Internal

Good afternoon,

Please send the attached mailing. CHK Shipping form included.

Thank you,
Keri Fieno
HSER, Regulatory Specialist
Chesapeake Energy Corporation
6100 N Western Avenue
Oklahoma City, OK 73118
Office: 405-766-8791

RECEIVED
Office of Oil and Gas
JUL 18 2022
WV Department of
Environmental Protection

USPS Tracking®

[FAQs >](#)

[Track Another Package +](#)

Tracking Number: 9405511899562473486251

[Remove X](#)

Your item has been delivered and is available at a PO Box at 10:05 am on July 11, 2022 in ELK GARDEN, WV 26717.

USPS Tracking Plus® Available 

 **Delivered, PO Box**

July 11, 2022 at 10:05 am
ELK GARDEN, WV 26717

Feedback

Get Updates 

Text & Email Updates 

Tracking History 

USPS Tracking Plus® 

Product Information 

RECEIVED
Office of Oil and Gas

JUL 18 2022

WV Department of
Environmental Protection

[See Less ^](#)

47 023 0003 1P

WW-9
(5/16)

API Number 47 - 023 - 00
Operator's Well No. 21017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CHESAPEAKE APPALACHIA LLC OP Code 2528

Watershed (HUC 10) ABRAM CREEK Quadrangle GREENLAND GAP

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste:

Will a synthetic liner be used in the pit? Yes No If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number)
- Reuse (at API Number)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain)

Will closed loop system be used? If so, describe: DRILL CUTTINGS WILL BE CIRCULATED BACK INTO AN OPEN TANK

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. FRESH WATER

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? NONE

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LANDFILL

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) SAWDUST AND CITRIC ACID

-Landfill or offsite name/permit number? KIMBLE SANITARY LANDFILL OR MUD MASTERS

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 strict penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Keri Fieno*

Company Official (Typed Name) KERI FIENO

Company Official Title REGULATORY SPECIALIST

RECEIVED
Office of Oil and Gas
JUL 18 2022
WV Department of Environmental Protection

Subscribed and sworn before me this 11th day of July, 2022

Morgan Beuchaw Notary Public

My commission expires 11007273

NOTARY SEAL PUBLIC
MORGAN BEUCHAW
Notary Public
State of Oklahoma
Commission #11007273 Exp: 08/10/23

Proposed Revegetation Treatment: Acres Disturbed 10 Prevegetation pH _____

Lime 3.90 Tons/acre or to correct to pH 7

Fertilizer type 8-16-16

Fertilizer amount 968 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

OATS/ANNUAL RYE 40LBS/ACRE

BIRDSFOOT TREFOIL 8LBS/ACRE

HAY/STRAW MULCH 3 TONS/ACRE

TALL FESCUE 40LBS/ACRE

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Gayne Knitowski Digitally signed by Gayne Knitowski Date: 2022.07.11 16:05:38 -0400'

Comments: _____

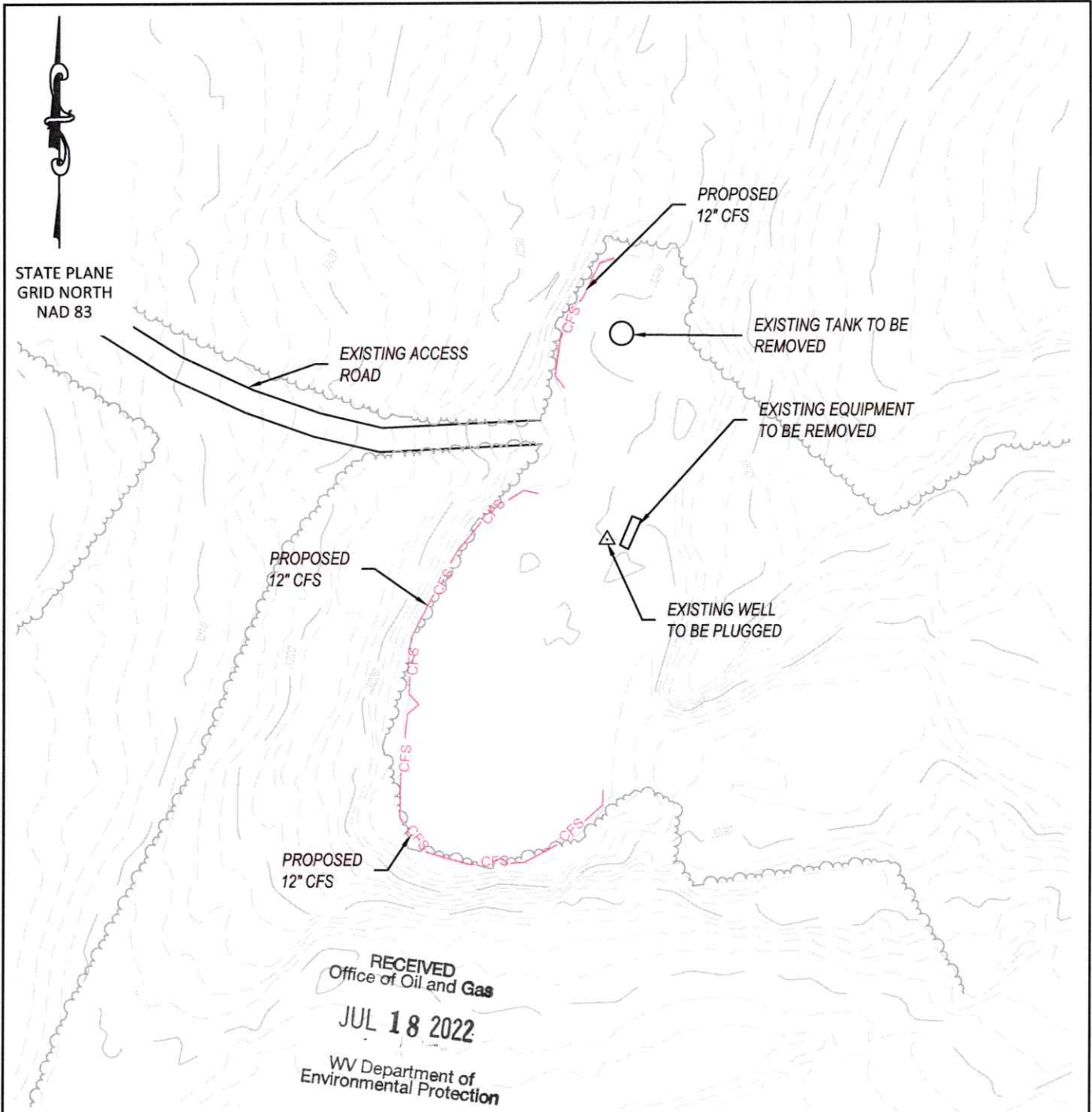
RECEIVED
Office of Oil and Gas

JUL 18 2022

WV Department of
Environmental Protection

Title: Inspector Date: 7-11-2022

Field Reviewed? () Yes () No



RECEIVED
Office of Oil and Gas
JUL 18 2022
WV Department of
Environmental Protection

NOTE: ALL PRODUCTION FACILITIES
WILL BE REMOVED UPON COMPLETION
OF THE PLUGGING OPERATIONS.



SCALE IN FEET

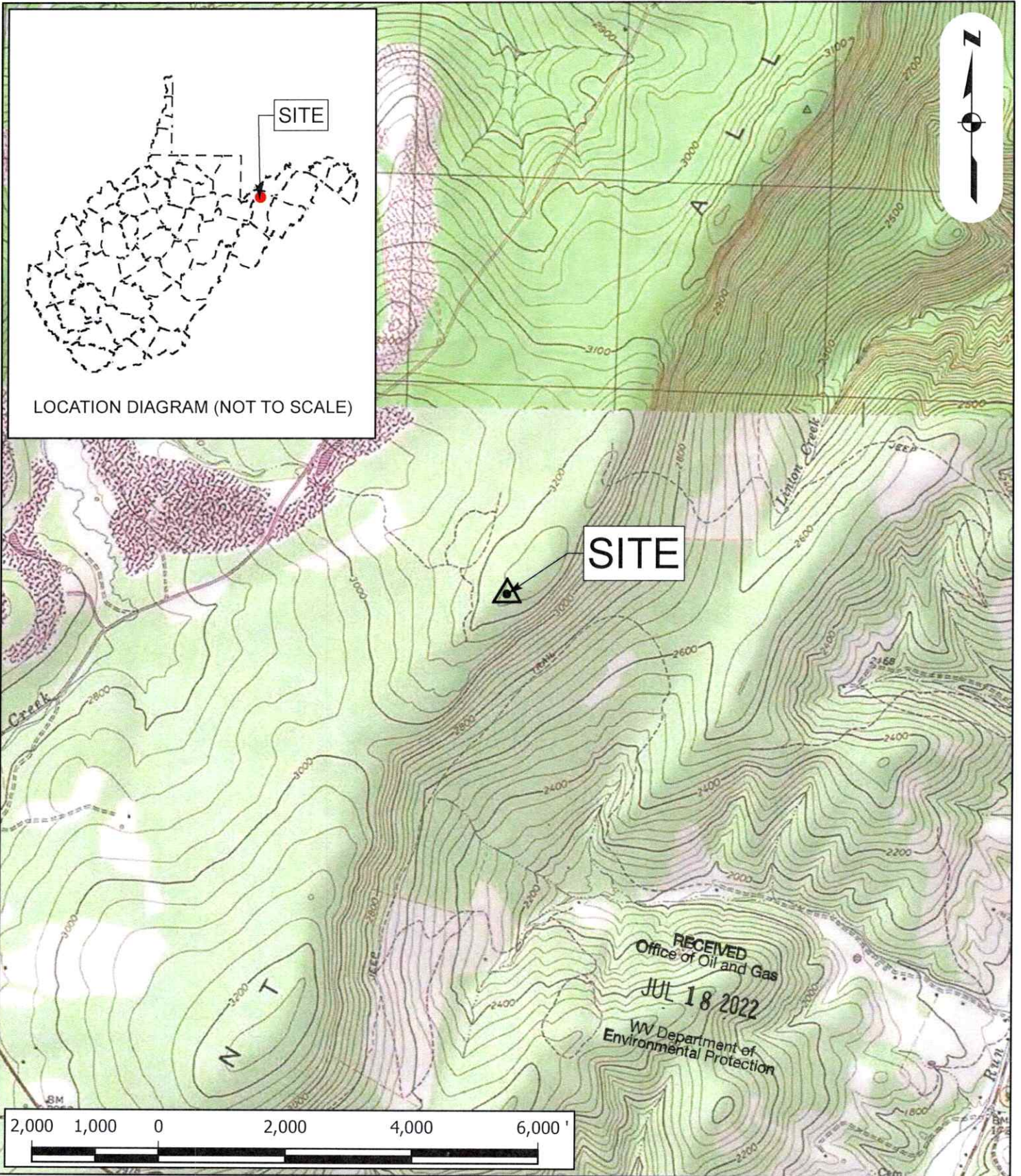
LUCY C HIPP 1
SITE RECLAMATION
API# 47-023-00031
FOR
CHESAPEAKE ENERGY
LOCATED IN
GRANT COUNTY, WEST VIRGINIA

SITE PLAN

FINAL 02/08/2022 1

LEGEND	
EXISTING CONTOUR	---+550---
EXISTING TREE LINE	~~~~~
EXISTING ACCESS ROAD EDGE	—————
WELLHEAD	△
COMPOSITE FILTER SOCK	—CFS—

JHA Companies
ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
www.jhacompanies.com
844-542-4757
466 SOUTH MAIN STREET
MONTROSE, PA 18801
PA • OH • NY • WV • VA • MD



USGS LOCATION MAP

PREPARED FOR
LUCY C HIPP SITE

GRANT COUNTY, WEST VIRGINIA
GREENLAND GAP USGS QUAD

PROJECT -	LUCY C HIPP
DATE -	2/8/2022
SCALE -	1" = 2,000'
DRAWN -	JKANE
FILE -	LUCY C HIPP_USGS_LOCATION_MAP.mxd



www.jhacompanies.com

(844) 542-4757

WW-7
8-30-06



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

API: 47-023-00031 WELL NO.: 21017

FARM NAME: LUCY C HIPP 1

RESPONSIBLE PARTY NAME: CHESAPEAKE APPALACHIA LLC

COUNTY: GRANT DISTRICT: UNION

QUADRANGLE: GREENLAND GAP

SURFACE OWNER: UPPER POTOMAC, LLC

ROYALTY OWNER: UPPER POTOMAC, LLC

UTM GPS NORTHING: 4345198

UTM GPS EASTING: 656539 GPS ELEVATION: 3258'

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.


Signature

REGULATORY SPECIALIST
Title

8/2/22
Date

RECEIVED
Office of Oil and Gas
RECEIVED
Office of Oil and Gas
JUL 18 2022
WV Department of
Environmental Protection



McLaughlin, Jeffrey W <jeffrey.w.mclaughlin@wv.gov>

Deep Well P&A Cement

1 message

Brent Antolik <Brent.Antolik@chk.com>

Tue, Aug 2, 2022 at 2:10 PM

To: "jeffrey.w.mclaughlin@wv.gov" <jeffrey.w.mclaughlin@wv.gov>

Jeff,

To answer your question regarding Class A vs. Class H cement, we has proposed running Class H cement below 6000' due to the higher temperature.

Best,

Brent Antolik, P.E.

Production Engineer - Marcellus
Chesapeake Energy Corporation

B8 – 457

Mobile: 570-592-1589

Teams Phone (Office): 1-405-400-7461

Email: Brent.antolik@chk.com

This email (and attachments if any) is intended only for the use of the individual or entity to which it is addressed, and may contain information that is confidential or privileged and exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return email and destroy all copies of the email (and attachments if any).

CHESAPEAKE
ENERGY

July 14, 2022

Jeff McLaughlin
WV DEP
601 57th Street SE
Charleston, WV 25304

VIA UPS OVERNIGHT

Re: Plugging Permits

Mr. McLaughlin,


Please find the enclosed Plugging permits for the following wells:

Leon & Leroy Burgess 1 22680 ³

Lucy C. Hipp 1 21017 ¹

Union Land Management #1 1-2178 ²

Sincerely,



Keri Fieno
Regulatory Specialist

Enclosures

RECEIVED
Office of Oil and Gas
JUL 18 2022
WV Department of
Environmental Protection

Plug and Abandonment Procedure

Tubing Design					
Item/No	OD (in)	ID (in)	Description	Length (ft)	Depth (ft-MD)
2-3/8" Tubing	2.375	1.995	Records show N-80 Tubing	10,040.0	10,040

Cement Summary

Estimated Plug Set Depths and Cement Needed								
Item	Plug Height	Top of Plug	Bottom of Plug	Cement Type	% Excess Cmt	Cement Sacks	Gel Volume (BBL)	Displacement Volume (BBL)
Plug 1	180'	9,570'	9,750'	Class H	0%	20	0	37.1
Plug 2	500'	8,700'	9,200'	Class H	20%	213	399	33.9
Plug 3	200'	3,140'	3,340'	Class A	20%	87	182	12
Plug 4	200'	501'	701'	Class A	0%	72	0	1.9

Plugging Details					
Plug #	Depth Code	Depth	Csg or Open Hole?	Perforate?	Cmt Behind Csg
Plug 1	CIBP	9,750'	Csg	N/A	Yes
Plug 2	5-1/2" Casing Plug	9,750'	Csg	N/A	Yes
Plug 3	5.5" Stub Plug	9,200'	Open Hole	N/A	No
Plug 4	9-5/8" Casing Plug	3,340'	Csg	N/A	Yes
Plug 5	9-5/8" Surface Plug	701'	Csg	N/A	Yes

*All volumes assume 2-3/8" tubing is used
 **All volumes assume 1.18ft³/sack of cement yield

* ADD PLUG 6 100' TO SURFACE (COAL STRING PLUG)

PLUG 5 & 6 MUST BE EXPANDING CEMENT.

ANY COAL STRING PLUG MUST BE EXPANDING CEMENT.

JMM

RECEIVED
 Office of Oil and Gas
 JUL 18 2022
 WV Department of Environmental Protection



Kennedy, James P <james.p.kennedy@wv.gov>

ATTN plugging permit for 4702300031 has been issued

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Thu, Aug 4, 2022 at 9:28 AM

To: Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, Wade A Stansberry <wade.a.stansberry@wv.gov>, Gayne J Knitowski <gayne.j.knitowski@wv.gov>, rlayton@assessor.state.wv.us, eric.haskins@chk.com, keri.fieno@chk.com, Brent.Antolik@chk.com

To whom it may concern, the plugging permit for 4702300031 has been approved and issued.

James Kennedy

WVDEP OOG

 **4702300031.pdf**
4539K