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

May 12, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-500908, issued to CABOT OIL & GAS CORPORATION, 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: 37-S-1073
Farm Name: PEYTONA COAL LAND CO.
API Well Number: 47-500908
Permit Type: Plugging
Date Issued: 05/12/2016

5009088P

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.

5009088

WW-4B
Rev. 2/01

1) Date April 28, 2016
2) Operator's
Well No. Peytona Coal Land #37
3) API Well No. 47- 005 - 00908

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 X or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1,293.32' Watershed Orchard Branch of Sandlick Creek
District Sherman County Boone Quadrangle Williams Mountain

6) Well Operator Cabot Oil & Gas Corporation
Address 2000 Park Lane, Suite 300
Pittsburgh, PA 15275

7) Designated Agent Phillip Hill - Cabot Oil & Gas Corporation
Address 900 Lee Street East, Suite 1500
Charleston, WV 25301

8) Oil and Gas Inspector to be notified
Name Gary Kennedy
Address P.O. Box 268
Nimitz, WV 25978

9) Plugging Contractor
Name Contractor Services, Inc.
Address 929 Charleston, Road
Spencer, WV 25276

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

See Attached Sheet

RECEIVED
Office of Oil and Gas
MAY 05 2016
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 Gary Kennedy Date 5/4/16

500908 P

PEYTONA COAL #37
API # 47 - 005 - 00908
PLUGGING PROCEDURE

Current Configuration
DTD @ 4562' PBD @ 2861'
8-5/8" casing @ 798'
7" casing @ 1988'
3 1/2" tubing @ 2853' with Oilwell Comb W&A packer set @ 2539'
Water @ 65', 460' & 585'
Coal @ 162' – 164', 215' – 220', 460' – 463', & 609' – 613'
Berea shot from 2616' to 2861'
Injun @ 2118' – 2163' w/ gas show @ 2138'
Big Lime @ 1990' – 2118' w/ gas show @ 2094'

PROCEDURE

1. Contact Danville District Office a minimum of 48 hours prior to starting work
2. Contact state inspector a minimum of 24 hours prior to starting work.
3. Prepare JSA Form and LOTO procedures as required prior to commencing any work
4. Lay 2" line from wellhead to pit/tank and stake down securely.
5. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
6. Unpack wellhead.
7. Run rig tools to determine well TD and note any fluid level.
8. Unset the Oilwell Comb W&A packer @ 2539'. Pump 8 bbls of 6% Gel
9. Pull 3 1/2" tubing.
10. MIRU Cementing Company.
11. TIH with 2-3/8" work string to 2650'.
12. Pump 11 bbls of 6% Gel followed by 27 sacks of Class A cement for cement plug 1 from 2650' to 2500'.
13. Displace with 10 bbls of 6% Gel.
14. POOH with tubing and let cement plug set for a minimum of four hours.
15. Pull 7" casing string.
16. RIH with workstring – tag TOC to confirm.
17. PU tubing to 2200' and pump 20 bbls of 6% gel followed by 67 sacks of Class A cement for cement plug 2 from 2200' to 1900'.
18. Displace with 7 ½ bbls of 6% Gel.
19. Pull work string to 1400' and pump 20 bbls 6% Gel, followed by ~~67~~ 84 sks of Class A cement for plug 3 from 1400' to ~~1200'~~ 1150'.
20. Displace w/ 5 bbls of 6% Gel.
21. POOH with tubing and let cement plug set for a minimum of four hours.
22. Pull 8 5/8" casing string.
23. TIH with work string to 850' and pump 443 sks of Class A cement for plug 4 from 850' to surface.
24. TOOH with work string and lay down.
25. RDMO Cement company
26. Erect Monument according to Law.
27. RDMO.

Received
Office of Oil & Gas
MAY 04 2016

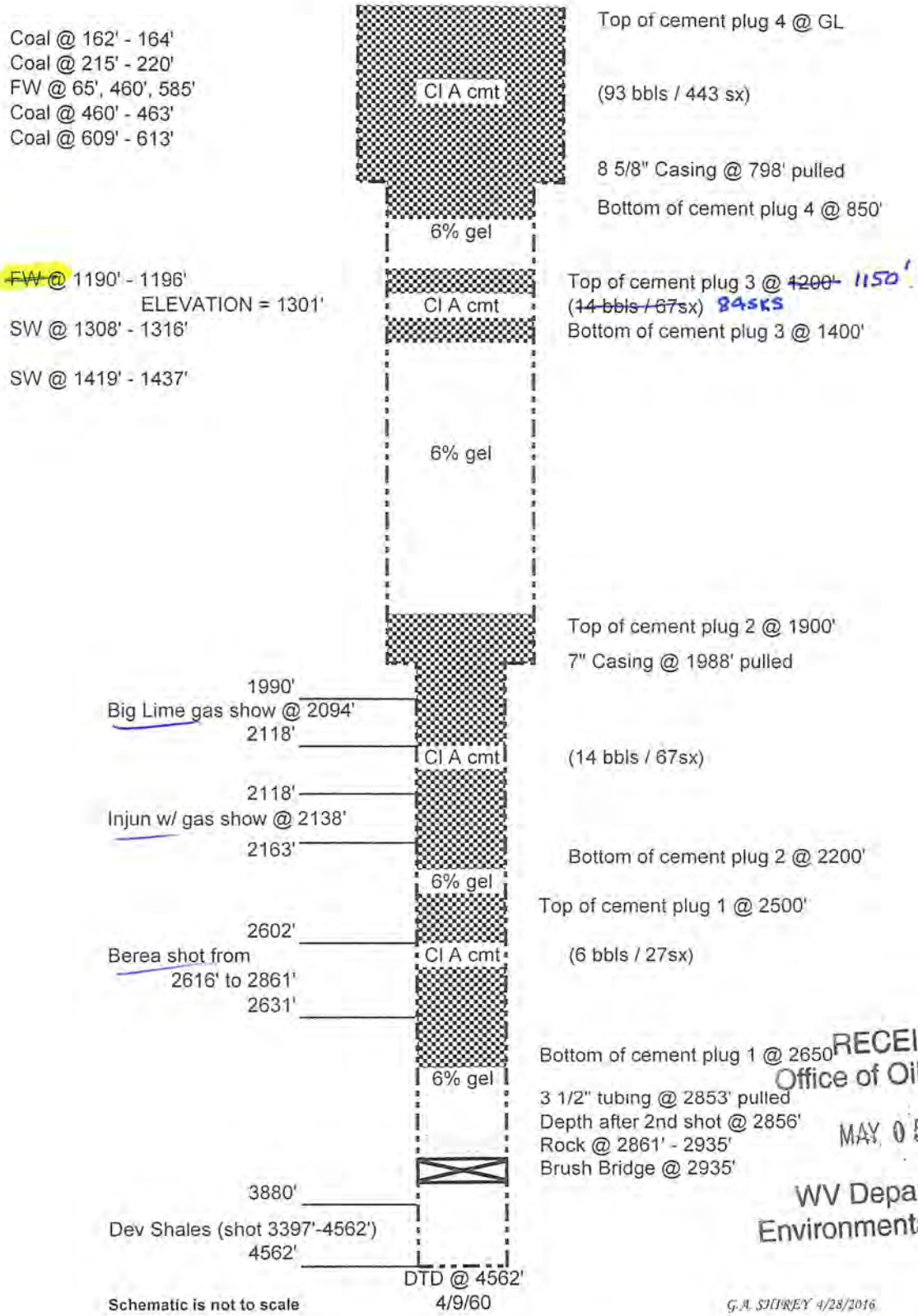
ok gmm

5009088P

Peytona Coal #37

API 47-005-00908

CURRENT CONFIGURATION



RECEIVED
Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

G.A. SHIREY 4/28/2016

500908P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Quadrangle Peytona

Permit No. Boo-908

Oil or Gas Well GAS (KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4168, Charleston, W. Va.
Farm Peytona Coal Land Co. Acres 6760
Location (waters) c/o Chas. Natl. Bank, Charleston, W. Va.
Well No. 37 (Serial No. 1073) Elev. 1300.8
District Sherman County Boone
The surface of tract is owned in fee by
Address
Mineral rights are owned by Peytona Coal Land Co.
Address
Drilling commenced 1-25-60
Drilling completed 4-9-60
Date Shot 4-12-60 From 3397 To 4562
4-14-60 2616 2630
With 11,400# Trojan powder and 1,800# Trojan Powder

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Big Lime 9 MCF; Berea & Shells 169M Cu. Ft.
Rock Pressure 187 lbs. 48 hrs.
Oil bbls., 1st 24 hrs.
Fresh water 65', 460', 585' feet 1190-1196 feet
Salt water 1308-1316' feet 1419-1437 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			"Oilwell" Comb W&A
10			Size of
8¼ 5/8	798'9"	798'9"	3 x 7 x 16
6¼ 7	1988'1"	1988'1"	Depth set
5 3/16			2539 - 2544
3 1/2	-----	2852'9"	Perf. top 2567
2			Perf. bottom 2853
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 162 FEET 24 INCHES
215 FEET 60 INCHES 460 FEET 36 INCHES
609 FEET 48 INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface	-----	-----	0	2			
Sand	-----	-----	2	15			
Slate	-----	-----	15	20			
Slate	Light	Soft	20	25			
Sand	Light	Soft	25	60			
Slate	Dark	Soft	60	73	Water at 65', 1 BPH		
Sand	Grey	Soft	73	83			
Slate	Grey	Soft	83	98			
Sand	Grey	Soft	98	162			
Coal	Black	Soft	162	164			
Slate	Dark	Soft	164	169			
Sand	Light	Soft	169	194			
Sand	Grey	Soft	194	215			
Coal	Dark	Soft	215	220			
Slate	Dark	Soft	220	240			
Sand, Bro.	Dark	Soft	240	273			
Slate	Dark	Soft	273	386			
Sand	Grey	Hard	386	421			
Slate	Grey	Soft	421	427			
Slate	Dark	Soft	427	460	Water at 460', 3 BPH		
Coal	Black	Soft	460	463			
Slate	Dark	Soft	463	507			
Sand	Grey	Hard	507	522			
Slate	Dark	Soft	522	532			
Sand	Grey	Hard	532	604	Water at 585', 4 BPH		
Slate	Dark	Soft	604	609			
Coal	Black	Soft	609	613			
Slate	Dark	Soft	613	620			
Sand, Bro.	Dark	Soft	620	640			
Sand	Grey	Hard	640	675			
Slate	Black	Soft	675	687			
Slate	Light	Soft	687	712			
Sand	Light	Hard	712	733			
Sand	Grey	Hard	733	748			
Sl. & Shls.	Dark	Soft	748	797			

RECEIVED
Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

(Over)

5009085

B00-908

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Grey	Soft	797	800			
Lime	-----	-----	800	815			
Sl. & Shls.	-----	-----	815	830			
Sand	-----	-----	830	857			
Sand	Light	Medium	857	862			
Slate	Dark	Soft	862	872			
Sand	Light	Hard	872	915			
Sand	Grey	Hard	915	971			
Sand	Light	Hard	971	1026			
Sand	Grey	Hard	1026	1061			
Slate	Dark	Soft	1061	1101			
Sand	Light	Hard	1101	1120			
Sand	Grey	Hard	1120	1241	Water, 1190-1196', 1/2 BPH		(Salt)
Sand	Dark	Hard	1241	1278			
Sand	Grey	Hard	1278	1316	Water 1308-1316', 1½ BPH		(Salt)
Sand	Light	Hard	1316	1419			
Sand	Grey	Hard	1419	1451	Water sand 1419-1437 - hole filling		(Salt)
Sand	Light	Hard	1451	1482			
Sand	-----	-----	1482	1519			
Sand	Grey	Hard	1519	1522			
Slate	Dark	Soft	1522	1534			
Sand	Grey	Hard	1534	1569			
Slate	Grey	Soft	1569	1574			
Sand	Light	Hard	1574	1594			
Sand	Grey	Hard	1594	1715			
Slate	Light	Medium	1715	1734			
Slate	Dark	Soft	1734	1739			
Sand	Grey	Hard	1739	1759			
Sand	Light	Hard	1759	1782			
Sand	Grey	Hard	1782	1832			
Slate	Dark	Soft	1832	1834			
Lime	Dark	Hard	1834	1865			
Slate	Dark	Soft	1865	1867			
Lime	Dark	Hard	1867	1894			
Slate	Dark	Soft	1894	1899			
Lime	Dark	Hard	1899	1908			
Slate	Dark	Soft	1908	1913			
L. Lime	Dark	Hard	1913	1948			
Big Lime	Light	Hard	1948	1990	3-2-60 Installed 7" casing at 1990' on shoe		
Big Lime	Grey	Hard	1990	1995			
Big Lime	Grey	Hard	1995	2072			
Big Lime	Grey	Hard	2072	2118	Gas 2094	30/10 w 1/8 =	671 cu.f'
Grey Injun	Grey	Hard	2118	2145	Gas 2138	46/10 w 5/8 =	20.7 MCF
Red Injun	Red	Hard	2145	2163			
Sl. & Shls.	Dark	Soft	2163	2293			
Slate	Dark	Soft	2293	2393	Test 2352		14.3 MCF
Slate	Grey	Soft	2393	2446			
Slate	Dark	Soft	2446	2506			
Slate	Light	Soft	2506	2539			
Shells	Light	Hard	2539	2548			
Pkr. Shells	Grey	Hard	2548	2554			
Sl. & Shls.	Dark	Hard	2554	2590	Test 2590		13.6 MCF
					SIM 2590 = Sand IM 2590		
Br. Shale	Brown	Soft	2590	2602			
Berea	Light	Hard	2602	2615	Gas 2607		18.3 MCF
					Gas 2615		18.8 MCF
Berea	Grey	Hard	2615	2631	Gas 2621		42.9 MCF
Sl. & Shls.	Dark	Soft	2631	2643	Gas 2630		69.2 MCF
Shells	Grey	Medium	2643	2679	Gas 2667		70.9 MCF
Sl. & Shls.	Dark	Hard	2679	2778	Gas 2703		72.7 MCF
					Gas 2710		73.5 MCF
Shells	Dark	Hard	2778	2802	Test 2792		71.8 MCF
					Gas 2797		73.5 MCF

RECEIVED
Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

Date April 20, 1960

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By G. H. Smith

A. H. Smith (Title) Land, Engr. & Geol.

5009088

B00-908

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sl. & Shls.	Dark	Hard	2802	2844	Gas 2835		74.3 MCF
					Gas 2842		77. MCF
Sl. & Shls.	Grey	Hard	2844	2904	Gas 2850		79. MCF
					Test 2898		73. MCF
Sl. & Shls.	Grey	Soft	2904	2998			
Slate	Grey	Soft	2998	3048			
Sl. & Shls.	Grey	Med.	3048	3090			
Sl. & Shls.	Grey	Soft	3090	3194'			
Slate	Grey	Soft	3194	3441			
Sl. & Shls.	Grey	Medium	3441	3478			
Slate	Grey	Soft	3478	3640			
Sl. & Shls.	Grey	Medium	3640	3655			
Sl. & Shls.	Grey	Soft	3655	3856			
Sl. & Shls.	Grey	Medium	3856	3873			
Sl. & Shls.	Grey	Hard	3873	3880			
Br. Shale	Brown	Medium	3880	4024			
Br. Shale	Brown	Soft	4024	4077	Test 4077		71. MCF
Br. Shale	Brown	Medium	4077	4115			
Br. Shale	Brown	Soft	4115	4365			
Br. Shale	Brown	Medium	4365	4501			
Br. Shale	Brown	Soft	4501	4542			
Slate	White	Soft	4542	4562	Test 4562		68. MCF
					SLM 4562 = Sand LM 4562		
			Total Depth	4562	4-12-60		
					Shot with 11,400# Trojan Powder		
		Total Depth After 1st Shot		4463	from 3397 - 4562 (4:36 P.M.)		
					Test Before Shot		68. MCF
		Total Depth After 2nd Shot		2856	Test 15 Min. After Shot		781. MCF
					Test 1 Hr. " "		262. MCF
					Test 20 Hrs. " "		83. MCF
					Test 30 Hrs. " "		68. MCF
					Brush Bridge set at 2935, rock to 2861		
					4-14-60		
					Shot 2nd time with 1,000# Trojan		
					Powder from 2616 - 2861 (1:30 P.M.)		
					Test Before Shot		68 MCF
					Test 1 Hr. After Shot		317 MCF
					Test 20 Hrs. " "		185 MCF
					Test 22 Hrs. " "		180 MCF
					Did not knock out bridge		
					4-15-60		
					Installed 3½" tubing at 2854' with		
					"Oilwell" Comb. W & A Packer		
					Final Open Flow:		
					Berea & Shells		169 MCF
					Big Lime		9 MCF
							178 MCF
					4-15-60		
					Shut-in in 3½" tubing at 5:30 P.M.		
					28 Hrs. after 2nd shot		

RECEIVED
Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

500908 P

WW-4A
Revised 6-07

1) Date: April 28, 2016
2) Operator's Well Number
Peytona Coal Land Co. #37

3) API Well No.: 47 - 005 - 00908

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: See Exhibit "A"
Address:

(b) Name:
Address:

(c) Name:
Address:

6) Inspector: Gary Kennedy
Address: P.O. Box 268
Nimitz, WV 25978
Telephone: (304) 382-8402

5) (a) Coal Operator
Name: Black Castle Mining Co. / Elk Run Coal Co., Inc.
Address: 782 Robinson Creek Rd. / P.O. Box 189
Madison, WV 25130 / Peytona, WV 25154

(b) Coal Owner(s) with Declaration
Name: See Exhibit "A"
Address:

Name:
Address:

(c) Coal Lessee with Declaration
Name: Laxare, Inc. / Boone East Development Co.
Address: One Alpha Place / P.O. Box 271
Bristol, VA 24202 / Julian, WV 25529

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.

Well Operator: Cabot Oil & Gas Corporation
By: Kenneth L. Marcum
Its: Regulatory Supervisor
Address: 2000 Park Lane
Pittsburgh, PA 15275
Telephone: (412) 249-3850

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Received
Office of Oil & Gas
MAY 04 2016

Subscribed and sworn before me this 28th day of April, 2016
Constance C. Carden Notary Public
My Commission Expires November 16, 2017

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 depprivacyoffier@wv.gov.

5009085

April 28, 2016

EXHIBIT "A"

SURFACE OWNERS/COAL OWNERS
PEYTONA COAL LAND #37
API #47-005-00908

SURFACE OWNERS

PRC Holdings, LLC
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

Board of Trustees of Prichard School,
A Corporation
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

J.A. Holley Trust
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

A.M. Prichard Trust
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

Riverside Park, Inc.
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

East Enders, LLC
P.O. Box 273
Julian, WV 25529

William W. Luther & Josephine W. Luther
Revocable Trust Agreement
c/o Massey Coal
P.O. Box 273
Julian, WV 25529

Boone East Development Co.
P.O. Box 271
Julian, WV 25529

Coal Ownership

PRC Holdings, LLC
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

Board of Trustees of Prichard School,
A Corporation
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

J.A. Holley Trust
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

A.M. Prichard Trust
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

Riverside Park, Inc.
c/o Gaddy Engineering Co.
303 Washington Street West
Charleston, WV 25302

Received
Office of Oil & Gas
MAY 04 2016

WW-9
(2/15)

5009085

API Number 47 - 005 - 00908
Operator's Well No. Peytona 37

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cabot Oil & Gas Corporation OP Code 08145

Watershed (HUC 10) Orchard Branch of Sandlick Creek Quadrangle Williams Mountain

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:

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY.

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
■ Other (Explain No treated pit wastes will be produced

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. no drilling proposed

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings produced during plugging operation

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

-Landfill or offsite name/permit number?

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 August 1, 2005, 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 significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 28th day of April, 20 16

Constance C. Carden Notary Public

My commission expires 11/16/2017

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Form WW-9

500908 P

Operator's Well No. Peytona 37

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20/20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Pulp Fiber at 1000 to 1500 ~~Tons~~/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)		(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)	
(Annual Rye - 20) (White Clover - 5)		(Annual Rye - 20) (White Clover - 5)	
(Perennial Rye - 10) (Alta Sweet Clover - 5)		(Perennial Rye - 10) (Alta Sweet Clover - 5)	
(Yellow Clover - 5) (Birdsfoot Trefoil - 10)		(Yellow Clover - 5) (Birdsfoot Trefoil - 10)	

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jeffrey Kennedy

Comments:

Title: Inspector Date: 5/4/16

Field Reviewed? (_____) Yes (_____) No

5009068P

GENERAL NOTES:

THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD. PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORESEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.

ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL.

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/ PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED WHEN THESE CONDITIONS EXIST. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINTS OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK. STONE WILL BE PLACED ABOVE ALL CULVERTS.

PERMANENT CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES.

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WVDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

TABLE 11-4 SPACING OF CROSS DRAINS	
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPACING OF CULVERTS	
ROAD GRADE (%)	DISTANCE (FT)
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100

1-800-245-4848

RECEIVED
Office of Oil and Gas
MAY 05 2016
WV Department of
Environmental Protection

DRAWING LEGEND

PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA

DRIVING DIRECTIONS FOR PEYTONA 37

1.) FROM DANVILLE, WV DRIVE NORTH ON U.S. ROUTE 119 FOR 0.7 MILES± TO STATE ROUTE 3.
2.) TURN RIGHT AND DRIVE EAST ON STATE ROUTE 3 FOR 8.7 MILES± TO AN EXISTING PERMITTED COAL HAUL ROAD.
3.) TURN RIGHT AND DRIVE SOUTHEASTERLY ON EXISTING COAL HAUL ROAD FOR 4.1 MILES± TO THE BEGINNING OF THE EXISTING ACCESS ROAD.
4.) FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 0.15 MILE± TO THE EXISTING WELL SITE AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

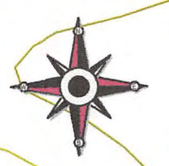
Cabot Oil & Gas Corporation

PEYTONA 37

SHERMAN DISTRICT, BOONE COUNTY, WV
WILLIAMS MOUNTAIN 7.5' QUADRANGLE

5009058

Note:
Tanks will be used instead of drilling pit(s), and may be adjusted to the most environmental safe site to meet the requirements of the WVDEP.



COAL HAUL ROAD UNDER CONSTRUCTION
EXISTING ACCESS ROAD HAS BEEN REMOVED

EXISTING PERMITTED COAL HAUL ROAD

Surface Owner
TM 16, TP 1
Judith Prichard, et al
5000 Ac.

EXISTING ROAD
-15% TO -18%
145'±

15" C.P.P.

15" C.P.P.

EXISTING ROAD
-12% TO -15%
575'±

15" C.P.P.

15" C.P.P.

FILL

CUT

PEYTONA 37
API 005-00908

APPLY CULVERTS
AS NEEDED

1600

Orchard

Received
Office of Oil & Gas
MAY 04 2016

0 100' 200' 400'
GRAPHIC SCALE

DRAWING LEGEND

PROPOSED ROAD	---	ROAD DITCH	
EXISTING ROAD		GAS LINE	
STRAW BALES		FENCE LINE	
SILT FENCE		ROCK OUTCROP	
BRUSH BARRIER		WATER WELL	
TREE LINE		HOUSE/STRUCTURE	
ROCK RIP RAP		UTILITY POLE	
CROSS DRAIN		SPRING	
CULVERT		WET SPOT	
DRILLING PIT		PIT WASTE APP. AREA	

Cabot Oil & Gas Corporation

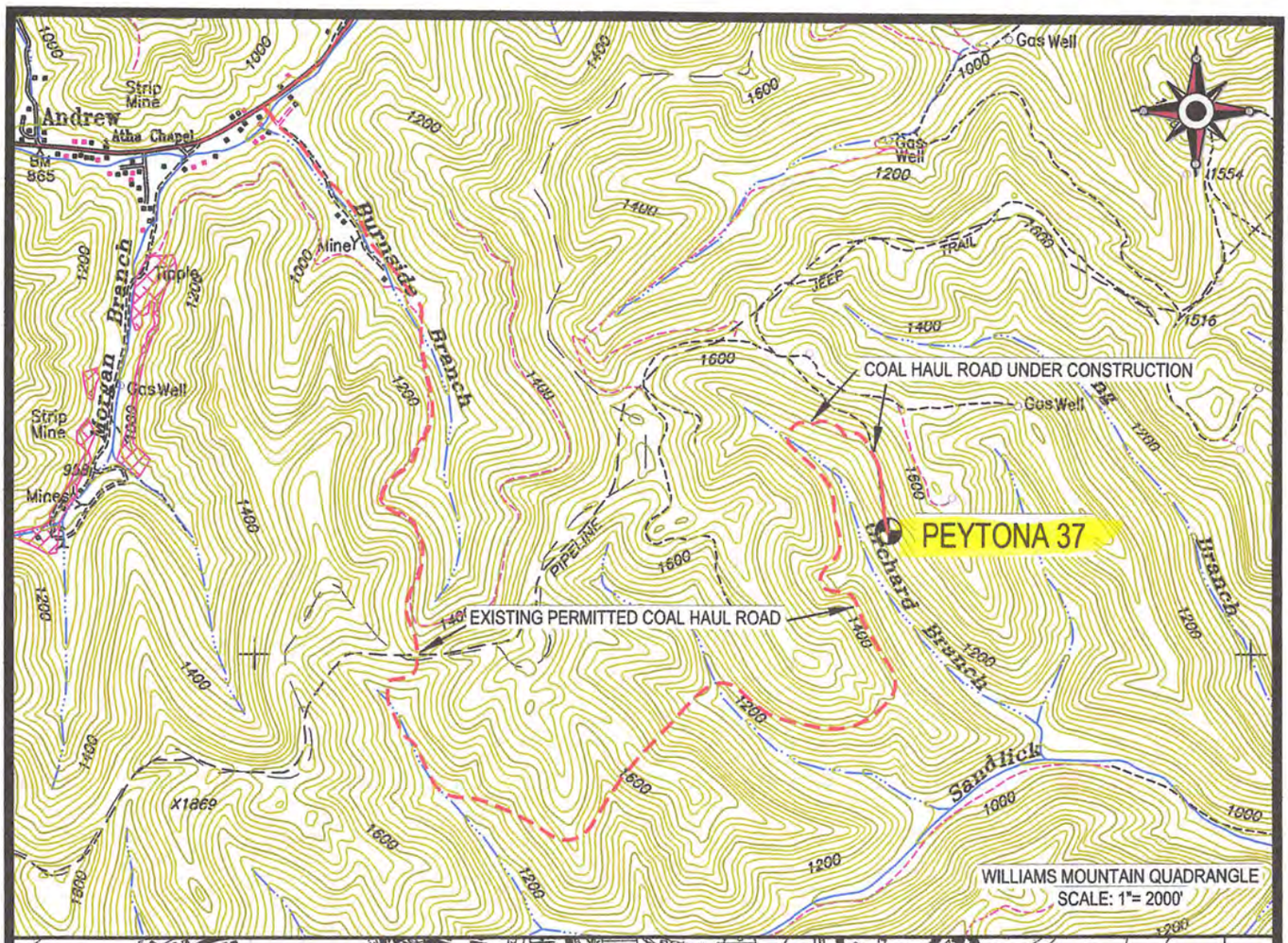
PEYTONA 37

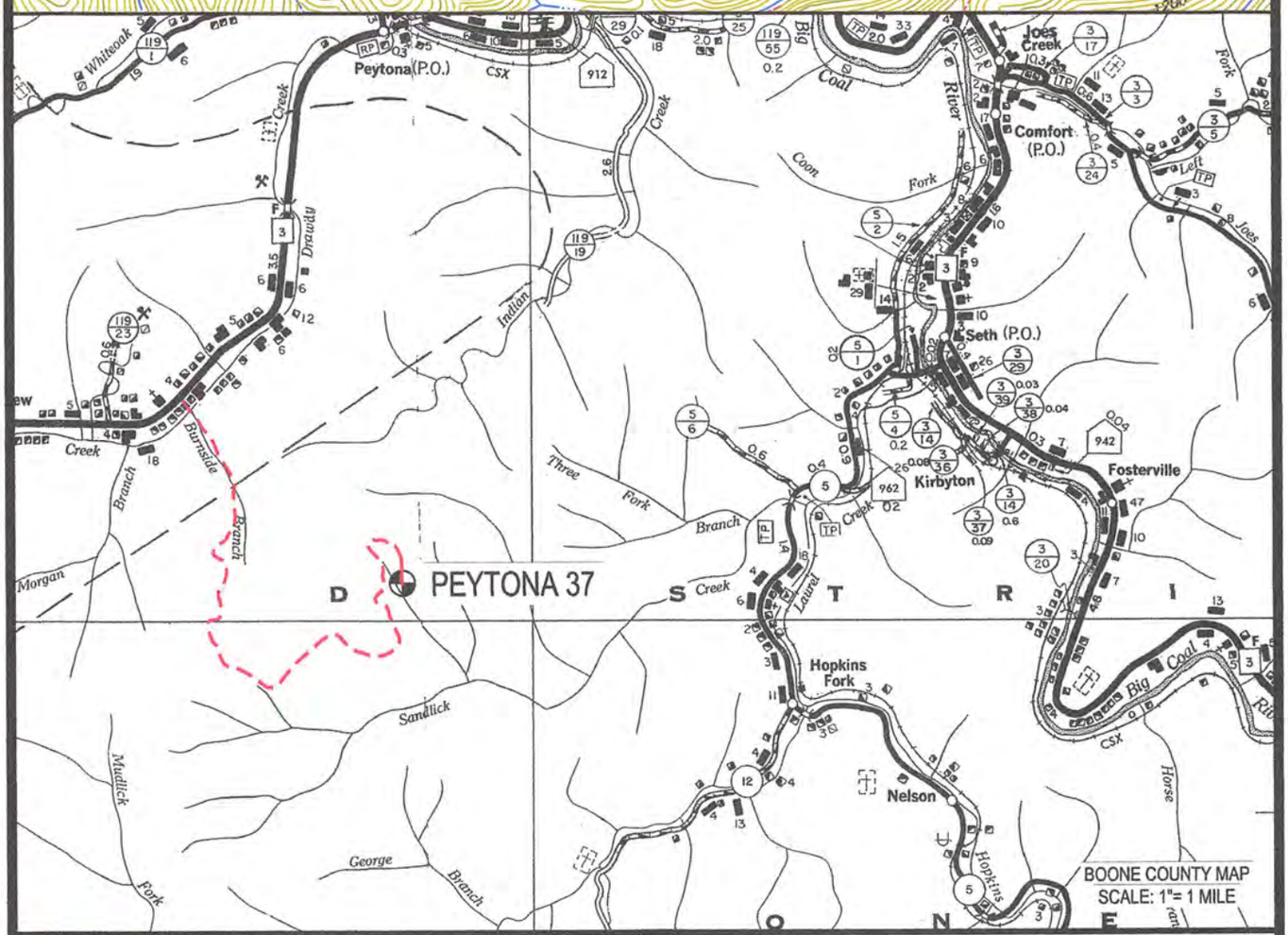
CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF ORCHARD BRANCH OF SANDLICK CREEK
SHERMAN DISTRICT, BOONE COUNTY, WV
WILLIAMS MOUNTAIN QUADRANGLE

SHEET NUMBER	SCALE:	DRAWN BY:	DATE:	CHK'D. BY:
1 OF 1	1"=200'	G. PERKINS	04-21-16	DKC

5009085





Cabot Oil & Gas Corporation

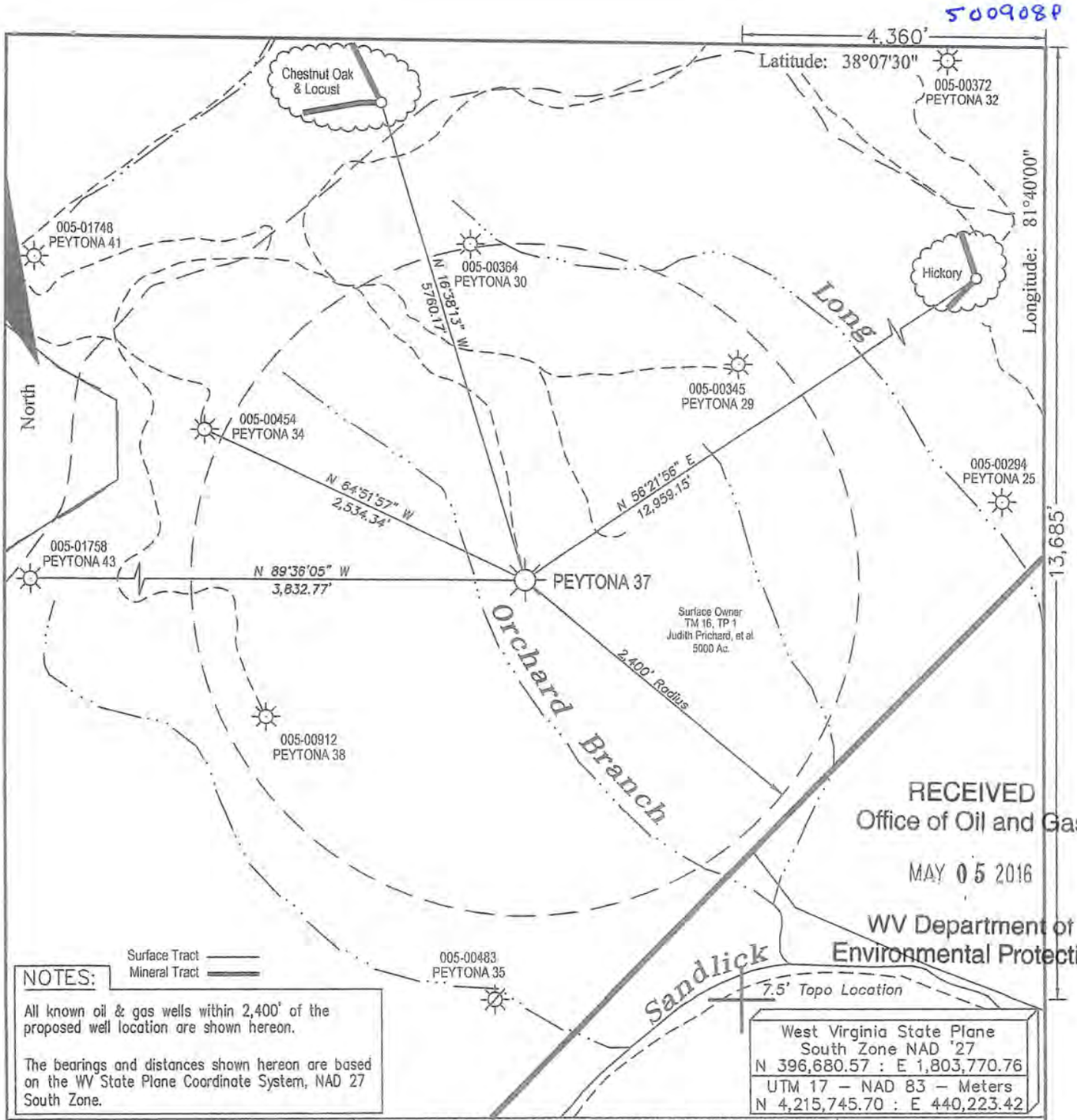
PEYTONA 37
LOCATION MAP

LOCATED ON THE WATERS OF ORCHARD BRANCH
OF SANDLICK CREEK
SHERMAN DISTRICT, BOONE COUNTY, WV
WILLIAMS MOUNTAIN QUADRANGLE

CUNNINGHAM
LAND SURVEYING & MAPPING SERVICES, LLC
• 5213 STEPHEN WAY •
• CROSS LANES, WEST VIRGINIA 25313 •
• VOICE (304) 561-4129 • FAX (304) 776-0703 •
• E-MAIL ADDRESS • DKCUNNINGHAM@SUDDENLINK.NET •

PROJECT NO. CABOT	DWG. NO. PEYTONA 37 LOC.DWG	
DATE: 04-21-16	SCALE: AS NOTED	CHK'D BY: D.K.C.
DRAWN BY: G. PERKINS	FILE: C:\PROJECT FOLDER\CABOT	

5009087



RECEIVED
Office of Oil and Gas
MAY 05 2016
WV Department of Environmental Protection

NOTES:

All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

FILE #:

DRAWING #: Peytona 37 ww6

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY: 1 : 5,000

PROVEN SOURCE OF ELEVATION: Global Positioning System (GPS)

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIROMENTAL PROTECTION.

Signed:

R.P.E.: L.L.S.: 1993

GREGORY A. PERKINS LICENSED No. 1993 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: April 21, 2016

OPERATOR'S WELL #: Peytona 37

API WELL #: 47 (STATE) 005 (COUNTY) 00908 (PERMIT)

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

WATERSHED: Orchard Branch of Sandlick Creek ELEVATION: 1,293.32'

COUNTY/DISTRICT: Boone / Sherman QUADRANGLE: Williams Mountain

SURFACE OWNER: Judith Prichard, et al ACREAGE: 5000

OIL & GAS ROYALTY OWNER: Peytona Coal Land Co. ACREAGE: 6760

LEASE #: 47-04056 DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

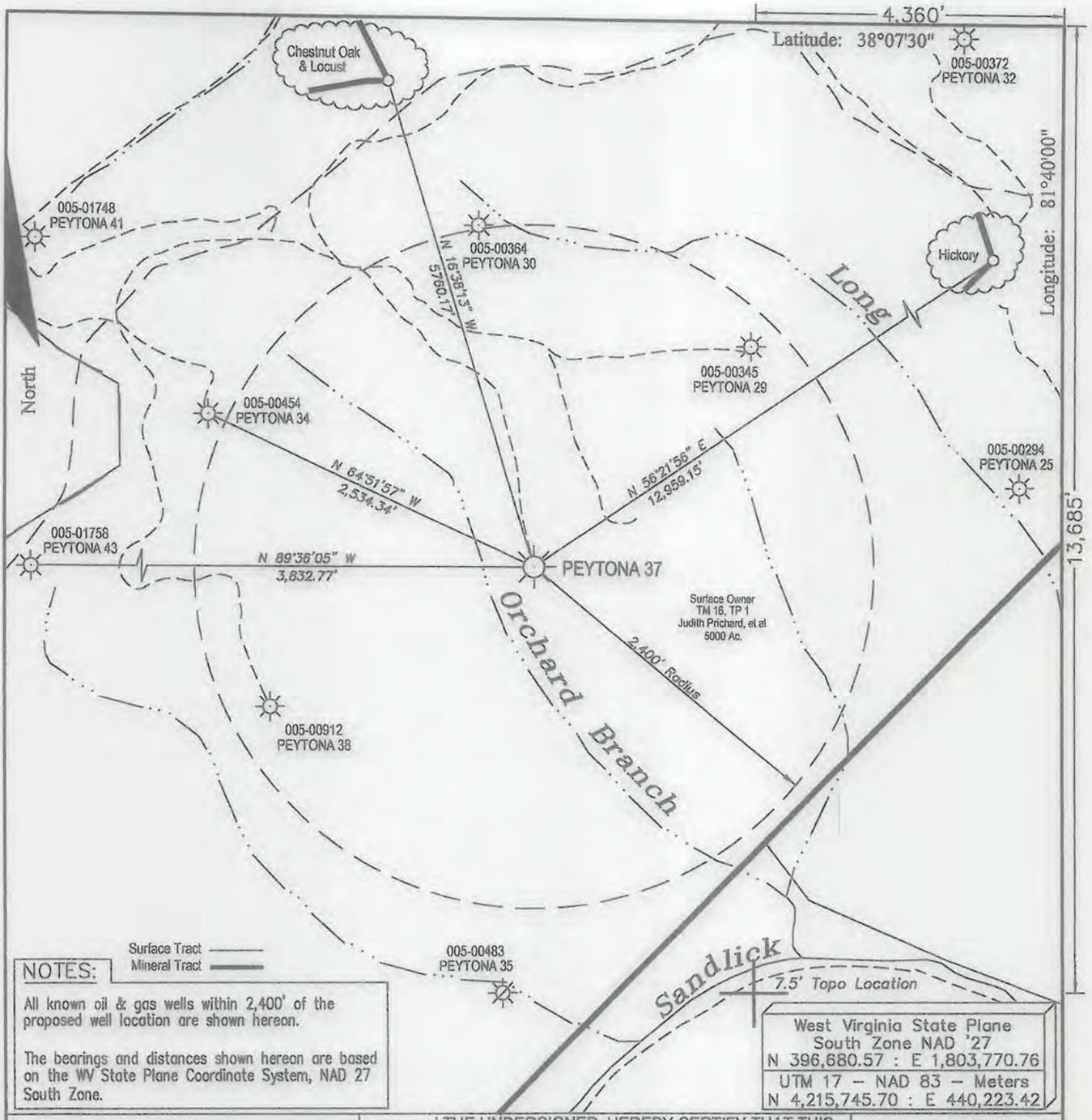
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: ESTIMATED DEPTH:

WELL OPERATOR Cabot Oil & Gas Corp.
Address 2000 Park Lane, Suite 300
City Pittsburgh State PA Zip Code 15275

DESIGNATED AGENT Phillip Hill
Address 900 Lee Street, Suite 1500
City Charleston State WV Zip Code 25301



NOTES:

All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

FILE #:

DRAWING #: Peytona 37 ww6

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY: 1 : 5,000

PROVEN SOURCE OF ELEVATION: Global Positioning System (GPS)

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIROMENTAL PROTECTION.

Signed:

R.P.E.: L.L.S.: 1993

GREGORY A. PERKINS LICENSED No. 1993 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: April 21, 2016

OPERATOR'S WELL #: Peytona 37

API WELL #: 47 (STATE) 005 (COUNTY) 00908 P (PERMIT)

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

WATERSHED: Orchard Branch of Sandlick Creek ELEVATION: 1,293.32'

COUNTY/DISTRICT: Boone / Sherman QUADRANGLE: Williams Mountain

SURFACE OWNER: Judith Prichard, et al ACREAGE: 5000

OIL & GAS ROYALTY OWNER: Peytona Coal Land Co. ACREAGE: 6760

LEASE #: 47-04056 DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: ESTIMATED DEPTH:

WELL OPERATOR Cabot Oil & Gas Corp.
Address 2000 Park Lane, Suite 300
City Pittsburgh State PA Zip Code 15275

DESIGNATED AGENT Phillip Hill
Address 900 Lee Street, Suite 1500
City Charleston State WV Zip Code 25301