



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

December 08, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-500899, 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 penalties 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: 6-SR-1015
Farm Name: POND FORK COAL CO.
API Well Number: 47-500899
Permit Type: Plugging
Date Issued: 12/08/2014

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.

1) Date October 29, 2014
2) Operator's
Well No. Pond Fork #6
3) API Well No. 47-005 - 00899

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 ~~6,909.9'~~ 1191' Watershed Jacks Branch
District Crook County Boone Quadrangle Clothier 301

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Whitney Johnson
Address Five Penn Center West, Ste. 401 Address P.O. Box 450
Pittsburgh, PA 15276 Glasgow, WV 25086

8) Oil and Gas Inspector to be notified Name Ross Eller
Address 121 Brierhill Drive
Beckley, WV 25801
9) Plugging Contractor Name Shreve's Well Service
Address 3473 Triplett Road
Spencer, WV 25275

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

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Office of Oil & Gas
OCT 31 2014

OK gmm

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

Work order approved by inspector _____ Date _____

12/12/14

Pond Fork #6 API # 47 - 005 - 00899 PLUGGING PROCEDURE

Current Configuration

TD @ 4714' ✓
 10 3/4" - 32 3/4# casing @ 585' on shoe ✓
 7" - 20# casing @ 2380' cemented w/ 15 sx ✓
 Coal @ 550' - 555' ✓
 Fresh water @ 50', 79', & 134' ✓
 Salt water @ 1285', 1353', 1663', 1755', & 1992' ✓
 Gas shows @ 2427', 3060', 3640', & 4448'
 Oil shows @ 1604' & 3070'
 Devonian Shale shot @ 3449' - 4714'

ELEV 11170'

PROCEDURE


1. Contact Danville Office a minimum of 48 hours prior to starting work.
2. Contact State Inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely.
5. Have vacuum truck available to catch any fluids circulated from well.
6. Unpack wellhead.
7. TIH with rig tools to check TD.
8. TIH with 2 3/8" work string to 10' off bottom.
9. MIRU Cement Company and pump 100 bbls 6% Gel.
10. TOOH w/ work string.
11. Set CIBP @ 3430' in 6 1/4" hole. ABOVE SHOT HOLE.
12. TIH with 2 3/8" work string to CIBP.
13. Pump 10 bbls 6% Gel followed by 25 sks of Class A cement for plug 1 from 3430' to 3300'.
14. Displace w/ 12 bbls of 6% Gel.
15. Pull work string up to 3120' and pump 40 sks of Class A cement for plug 2 from 3120' to 2950'.
16. Displace w/ 11 bbls of 6% Gel.
17. Pull work string up to 2450' and pump 20 sks of Class A cement for plug 3 from 2450' to 2350'.
18. Displace w/ 9 bbls of 6% Gel.
19. TOOH with work string. Let cement plug set for a minimum of four hours.
20. MIRU Wireline Company and check setting of cement plug 3.
21. Run freepoint and cut 7" casing where free. Estimate ±2160'.
22. POOH with 7" casing.
23. Pull 10 3/4" casing.
24. TIH with work string to 50' inside 7" casing cut (±2210') and pump 40 bbls of 6% Gel.
25. Pump 50 sks of Class A cement for plug 4 from 2210' to 2050'.
26. Displace w/ 8 bbls of 6% Gel.
27. Pull work string up to 1650' and pump 95 sks of Class A cement for plug 5 from 1650' to 1450'. ← CIA Plug 5a from 1220' - 1120'
28. Displace w/ 5.5 bbls of 6% Gel.
29. Pull work string up to 1400' and pump 120 bbls of 6% Gel.
30. Pull work string up to 600' and pump 130 sacks of Class A cement for plug 6 from 600' to 400'.
31. Displace with 1.5 bbl of 6% Gel.
32. Pull work string up to 200' and pump 135 sacks of Class A cement for plug 7 from 200' to surface.

TERRY URBAN 304-549-5415

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33. SET MONUMAT. Office of Oil & Gas

OCT 31 2014


 12/12/14
 12/6/14

Pond Fork #6
 API 47-005-00899
 PROPOSED CONFIGURATION

Fresh water @ 50', 79', & 134'

Coal @ 550' - 555'

Salt water @ 1285' & 1353'

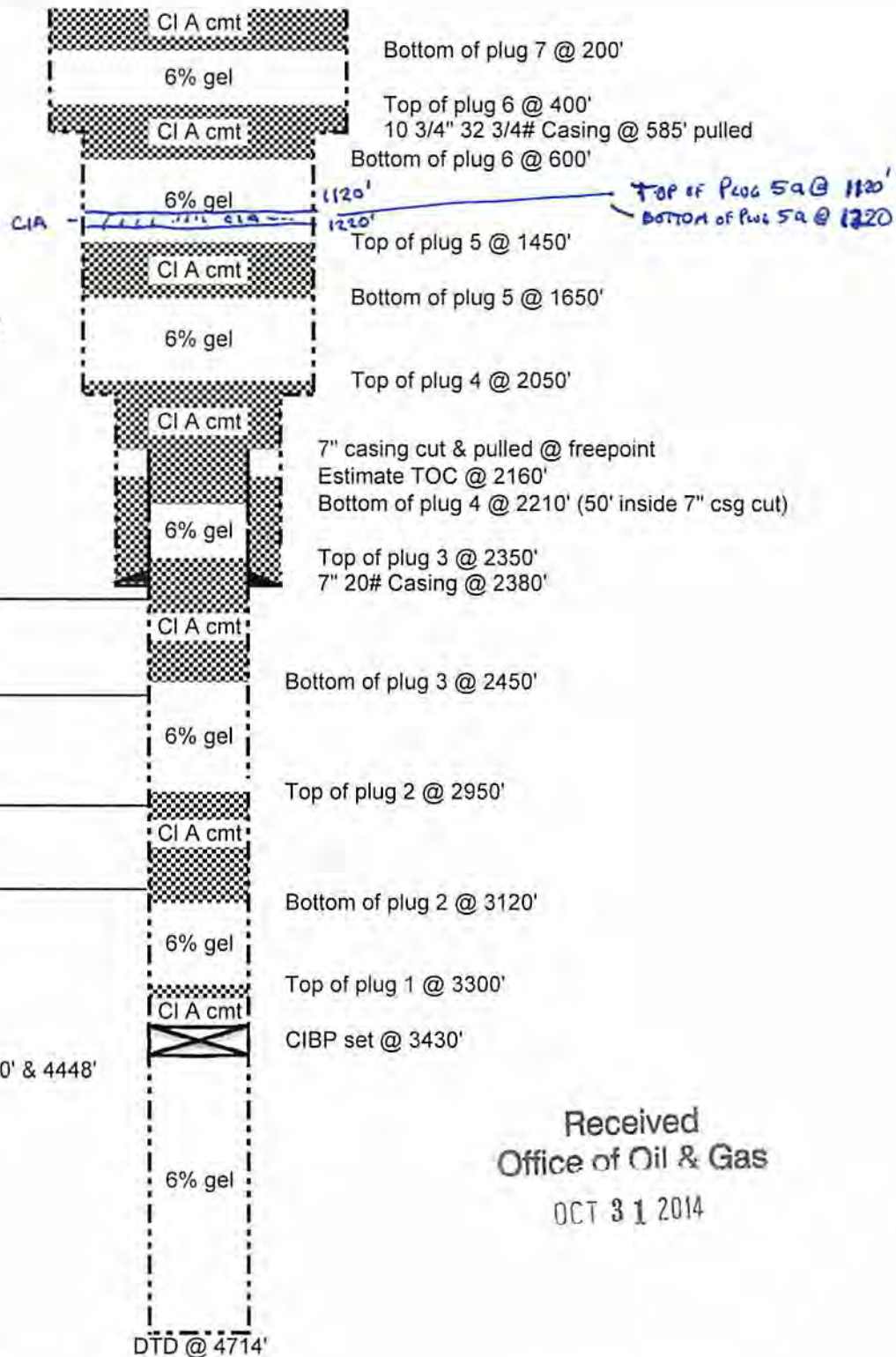
Oil show @ 1604'

Salt water @ 1663', 1755', & 1992'

Big Lime w/ gas show @ 2427'

Berea w/ gas show @ 3060'
& oil show @ 3070'

Brown Shale w/ gas shows @ 3640' & 4448'
Shot from 3449' to 4714'



Schematic is not to scale

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T. Ott 09/19/13

12/12/14

500899P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION /

Quadrangle Logan

WELL RECORD

Permit No. Boo-899

Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4158, Charleston 4, W. Va.
Farm Pond Fork, Hopkins-White Acres 117.50
Location (waters) _____
Well No. 6 (Serial No. 1015) Elev. 1169.90
District Crook County Boone
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Pond Fork Coal Co., et al
Address Madison, W. Va.
Drilling commenced 4-29-57
Drilling completed 8-15-57
Date Shot 8-21-57 From 3449 To 4714
With 12,300# Detonite
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume Brown Shale 50 M Cu. Ft.
Rock Pressure 350 lbs. 7 1/2 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 50', 79, 134 feet _____ feet
Salt water 1285, 1353, 1663 feet 1755, 1992 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			
13			
10 3/4"	585' 11"	585' 11"	Size of _____
8 5/8"	2069' 3"	Pulled	Depth set _____
8 7/8"	2380' 11"	2380' 11"	
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 7" SIZE 2381 No. Ft. 7-2-57 Date

COAL WAS ENCOUNTERED AT 550 FEET 60 INCHES
____ FEET _____ INCHES FEET _____ INCHES
____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Gravel	Yellow	Soft	0	20			
Sand	Yellow	Soft	20	29			
Sand	Grey	Med.	29	56	Water at 50', 2 B.P.H.		
Slate	Dark	Soft	56	65			
Sand	Light	Soft	65	79	Water level	22' at 79'	3041
Slate	Dark	Soft	79	81			1170
Sand	Grey	Med.	81	96			-137'
Slate	Dark	Soft	96	117			
Sand, Bro.	Light	Soft	117	134	Water level	35' at 134'	
Sand	Light	Soft	134	165			
Sand	Grey	Soft	165	252			
Slate	Light	Soft	252	265			
Sand	Light	Med.	265	297	Water level	35' at 281'	
Sand	Grey	Med.	297	331			
Slate	Light	Soft	331	337			
Shells	Dark	Med.	337	344			
Slate	Light	Soft	344	362			
Sand	Grey	Med.	362	424			
Slate	Light	Soft	424	432			
Sand	Light	Med.	432	520			
Slate	Light	Soft	520	542			
Sand	Light	Med.	542	550			
Coal	Black	Soft	550	555			
Slate	Light	Soft	555	586	Water level	35' at 586'	
					5-13-57 Ran	10-3/4" casing on shoe set	
					in red clay	at 586'	
Slate	-	-	586	594			
Slate	Dark	Soft	594	602			
Sand	Grey	Med.	602	631			
Sl. & Shls.	Grey	Soft	631	697			
Critty Lime	Light	Med.	697	707			
Bro. Sand	Light	Soft	707	737			
Sand	Light	Soft	737	840			
Slate	Light	Soft	840	854			
Sand	Grey	Soft	854	890			
Sand	Light	Soft	890	962			

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Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Dark	Soft	962	1106			
Sl. & Shls.	Grey	Med.	1106	1121			
Sand	Light	Soft	1121	1137			After 48 hr. shut down at 1137 ft., found 7 1/2 bailers water in hole - source unknown.
Sand	Light	Med.	1137	1151			
Sand	Light	Soft	1151	1170			
Sand	Grey	Soft	1170	1209			
Sand	Light	Hard	1209	1268			
Sand	Light	Soft	1268	1285			Water at 1285', 1 Bailer in 5 hours.
Sand	Light	Soft	1285	1408			Water at 1353', 1/2 B.P.H.
Slate	Dark	Soft	1408	1444			
Sand	Grey	Med.	1444	1469			
Sand	Light	Hard	1469	1577			
Slate	Dark	Soft	1577	1581			
Sand	Grey	Med.	1581	1590			
Sand	Light	Hard	1590	1837			Oil show at 1604' Water at 1663', 2/3 B.P.H. Water increase 1755', 1 B.P.H.
Slate	Light	Soft	1837	1865			
Sand	Light	Hard	1865	1884			
Slate	Dark	Soft	1884	1891			
Sand	Light	Hard	1891	2069			Water at 1992', hole filling. Water Sand 1987' to 2051' 6-17-57 Ran 8-5/8" casing at 2068' on shoe
Sand	Light	Hard	2069	2077			
Sand	Light	Hard	2077	2079			6-24-57 After week-end, 4 gal. water.
Sand	Light	Hard	2079	2111			
Red Rock	Red	Soft	2111	2131			
Slate	Grey	Soft	2131	2155			
Lime Shells	Grey	Med.	2155	2163			
Slate	Grey	Soft	2163	2168			
Slate	Light	Soft	2168	2178			
Red Rock	Red	Soft	2178	2206			
Slate	Light	Soft	2206	2214			
Maxton Sand	Grey	Hard	2214	2239			
Slate	Grey	Soft	2239	2242			
Sand	Grey	Hard	2242	2252			
Slate	Dark	Soft	2252	2255			
Lime	Dark	Med.	2255	2260			
Lime	Dark	Hard	2260	2287			
Slate	Dark	Soft	2287	2295			
Lime	Dark	Hard	2295	2323			
Slate	Dark	Soft	2323	2328			Hole caving at 2302', started using Linco.
Lime	Dark	Hard	2328	2332			
Slate	Dark	Soft	2332	2335			
Lime	Dark	Hard	2335	2353			
Lime	Grey	Hard	2353	2381			SLM 2381 = Sand LM 2381 7-2-57 Halliburton Co. cemented in 7" casing run at 2381 ft. Used 15 sacks. 7-5-57 Cleaned out cement from 2338 to 2381 ft.
Lime	Grey	Hard	2381	2388			Dried up hole to test pipe. Pulled 8-5/8" casing. 7-9-57
Big Lime	White	Hard	2388	2548			Gas 2427' 3 MCF Test 2433' 2.2 Test 2438 2 Test 2544 1.2 Test 2567 406 cu. ft. Gas-? 2625' 424 " " Test 2655 387 " "
Red Injun	Red	Med.	2548	2589			
Grey Injun	Grey	Med.	2589	2635			
Sl. & Shells	Light	Soft	2635	2655			
Sl. & Shells	Light	Soft	2655	2782			
Sl. & Shells	Light	Med.	2782	2805			
Sl. & Shells	Light	Soft	2805	2982			
Lime	Light	Med.	2982	2992			
Sl. & Shells	Light	Soft	2992	3025			

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OCT 31 2014

Date October 29, **12/12/14** 19 57

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner
By A. H. Smith
A. H. Smith (Title) Geologist

500899A

00.10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION /A

Quadrangle Logan

Permit No. Boo-899

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
 Address P. O. Box 4158, Charleston 4, W. Va.
 Farm Pond Fork, Hopkins & White Acres 117.50
 Location (waters) _____
 Well No. 6 (Serial No. 1015) Elev. 1169.90
 District Crook County Boone
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced _____
 Drilling completed _____
 Date Shot _____ From _____ To _____
 With _____
 Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
8 1/2			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Continued from previous page:							
Br. Shale	Brown	Soft	3025	3041	Test 3028'		367 cu. ft.
Berea Sand	Grey	Hard	3041	3067	SLM 3045 = Sand LM 3045		26.5 MCF
					Gas 3060		29.5
					Gas 3067		
Berea Sand	Grey	Hard	3067	3078	Oil show at 3070'		20.9
					Test 3074		
Slate	Light	Soft	3078	3085			
Shells	Light	Hard	3085	3089			
Shells	Light	Med.	3089	3109			
Sl. & Shls.	Light	Med.	3109	3122			
Lime Shells	Grey	Hard	3122	3132			
Sl. & Shls.	Grey	Soft	3132	3152			
Sl. & Shls.	Light	Soft	3152	3246			
Sl. & Shls.	Light	Med.	3246	3290	Test 3290		17.8
Sl. & Shls.	Light	Soft	3290	3846	SLM 3378 = Sand LM 3374		15.6
					Test 3677		
					Started using Linco at 3685 ft.		
Lime Shells	-	Med.	3846	3858			
Sl. & Shls.	Light	Soft	3858	3898			
Sl. & Shls.	Light	Soft	3898	4183			
Br. Shale	Brown	Soft	4183	4191	Test 4191'		15 MCF
					SLM 4191 = Sand LM 4191		
Sl. & Shls.	Dark	Soft	4191	4272			
Sl. & Shls.	Grey	Med.	4272	4376			
Br. Shale	Brown	Soft	4376	4392			
Sl. & Shls.	Grey	Soft	4392	4412			
Shells	Grey	Hard	4412	4422	Test 4422		15 MCF
					SIM 4422 = Sand LM 4422		
Slate	Light	Soft	4422	4437			
Br. Shale	Brown	Soft	4437	4690	Gas-2 4448		15.9
Slate	White	Soft	4690	4714	Test 4714		14.3
					SLM 4714 = Sand LM 4714		
			TOTAL DEPTH	4714			

12/12/14
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 DEPT. OF MINES
 STATE OF WEST VIRGINIA

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 Office of Oil & Gas
 OCT 31 2014

(Over)

Survey Dept

Formation	Color	Hard or Soft	Top A	Bottom	Oil, Gas or Water	Depth Found	Remarks
					8-21-57 Shot well with Detonite from 3449 to 4714 ft.		12,300#
					Test before shot:		14.3 MCF
					" 15 Min. A.S. :		1221. MCF
					1 Hr. "		519
					5 Hrs. "		160
					10 " "		110
					15 " "		82.2
					21 " "		61.7
					25 " "		35
					8-24-57 Cleaned out from 4240 to 4657'		
					First bridge out at 4240'		
					Test 12:30 A.M.		58.1 MCF
					4:30 A.M.		49.5
					Shut in 6 A.M. R.F. 255# in 37 hours.		
					8-27-57 Pressure after 74 Hrs. 350#		
					Opened & blew well for 7 1/2 hours; 64.6 MCF		
					Shut well in 8/27/57		
					Rock Pressure 72 hours		345#
					7 Days		440#
					13 "		500#
					9-18-57 Took down tools.		

Date October 29, 12/12/14, 19 57

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner
By A. H. Smith (Title) Geologist

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Office of Oil & Gas
OCT 31 2014

WW-4A
Revised 6-07

1) Date: October 29, 2014

2) Operator's Well Number
Pond Fork #6

3) API Well No.: 47 - 005 - 00899

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

Received
Office of Oil & Gas

OCT 31 2014

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Boone East Development Company</u>	Name <u>See Attached Sheet</u>
Address <u>P.O. Box 271</u> ✓	Address _____
<u>Julian, WV 25529</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Boone East Development Company</u>
_____	Address <u>P.O. Box 271</u> ✓
_____	<u>Julian, WV 25529</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Ross Eller</u> ✓	(c) Coal Lessee with Declaration
Address <u>121 Brierhill Drive</u>	Name <u>See Attached Sheet</u>
<u>Beckley, WV 25801</u>	Address _____
Telephone <u>(304) 932-6844</u>	_____

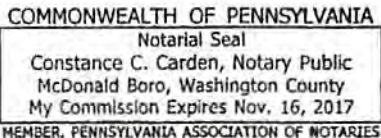
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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.

Well Operator Cabot Oil & Gas Corporation
 By: Kenneth L. Marcum *Kenneth L. Marcum*
 Its: Regulatory Supervisor
 Address Five Penn Center West, Suite 401
Pittsburgh, PA 15276
 Telephone (412) 249-3850



Subscribed and sworn before me this 29th day of October, 2014
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 depprivacyofficer@wv.gov.

Coal Lessee(s) and Coal Operator(s)
Pond Fork #6
47-005-00899

Independence Coal Company, Inc.
782 Robinson Creek Road ✓
Madison, WV 25130

Mingo Logan Coal Company
P.O. Box E ✓
Sharples, WV 25183

Pine Ridge Coal Company
109 Appalachian Drive ✓
Beckley, WV 25801

Spartan Mining Company
DBA Mammoth ✓
P.O. Box 150
Cannelton, WV 25036

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Office of Oil & Gas
OCT 31 2014

7013 3020 0001 0841 7227

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Postage	\$
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Restricted Delivery Fee (Endorsement Required)	
Total Postage	\$



Sent To **Pine Ridge Coal Company**
Street, Apt. or PO Box # **109 Appalachian Drive**
City, State, ZIP+4® **Beckley, WV 25801**

Pond Fork #6 P&A

PS Form 3800, August 2006

7013 3020 0001 0841 7234

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Restricted Delivery Fee (Endorsement Required)	
Total Postage	\$



Sent To **Mingo Logan Coal Company**
Street, Apt. or PO Box # **P.O. Box E**
City, State, ZIP+4® **Sharples, WV 25183**

Pond Fork #6 P&A

PS Form 3800, August 2006

7013 3020 0001 0841 7258

U.S. Postal Service™
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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	\$



Sent To **Boone East Development Company**
Street, Apt. or PO Box # **P.O. Box 271**
City, State, ZIP+4® **Julian, WV 25529**

Pond Fork #6 & Lenning Estate #2 P&A

PS Form 3800, August 2006

7013 3020 0001 0841 7241

U.S. Postal Service™
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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To **Independence Coal Company, Inc.**
Street, Apt. or PO Box # **782 Robinson Creek Road**
City, State, ZIP+4® **Madison, WV 25130**

Pond Fork #6 P&A

PS Form 3800, August 2006

7013 3020 0001 0841 7210

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Postage	\$
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	\$



Sent To **Spartan Mining Company**
Street, Apt. or PO Box # **DBA Mammoth P.O. Box 150**
City, State, ZIP+4® **Cannelton, WV 25036**

Pond Fork #6 & Lenning Estate #2 P&A

PS Form 3800, August 2006

7013 3020 0001 0841 7203

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Total Postage	\$



Sent To **Ross Eller**
Street, Apt. or PO Box # **121 Brierhill Drive**
City, State, ZIP+4® **Beckley, WV 25801**

Pond Fork #6 & Lenning Estate #2 P&A

PS Form 3800, August 2006

Received
Office of Oil & Gas

OCT 31 2014

12/12/14

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) Jacks Branch Quadrangle Clothier

Elevation 1,191' County Boone District Crook

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

Will a pit be used for drill cuttings? Yes _____ No X

If so, please describe anticipated pit waste: _____

MUST USE TANKS TO CONTAIN ANY WELL EFFLUENT AND DISPOSE OF PROPERLY. gwm

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

Proposed Disposal Method For Treated Pit Wastes:

- 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? N/A

Drilling medium anticipated for this well? 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? _____

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 *Kenneth L. Marcum*

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Received
Office of Oil & Gas

OCT 31 2014

Subscribed and sworn before me this 29th day of October, 20 14

Constance C. Carden

My commission expires 11/16/2017

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

12/12/14

Form WW-9

Operator's Well No. Pond Fork #6

Proposed Revegetation Treatment: Acres Disturbed 0.14 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Pulp Fiber at 1000 to 1500 Tons/acre

Seed Mixtures

Area I			Area II		
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 - 1	Alta Sweet Clover - 5	
Yellow Clover - 5	Birdsfoot Trefoil - 10		Yellow Clover - 5	Birdsfoot Trefoil	

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

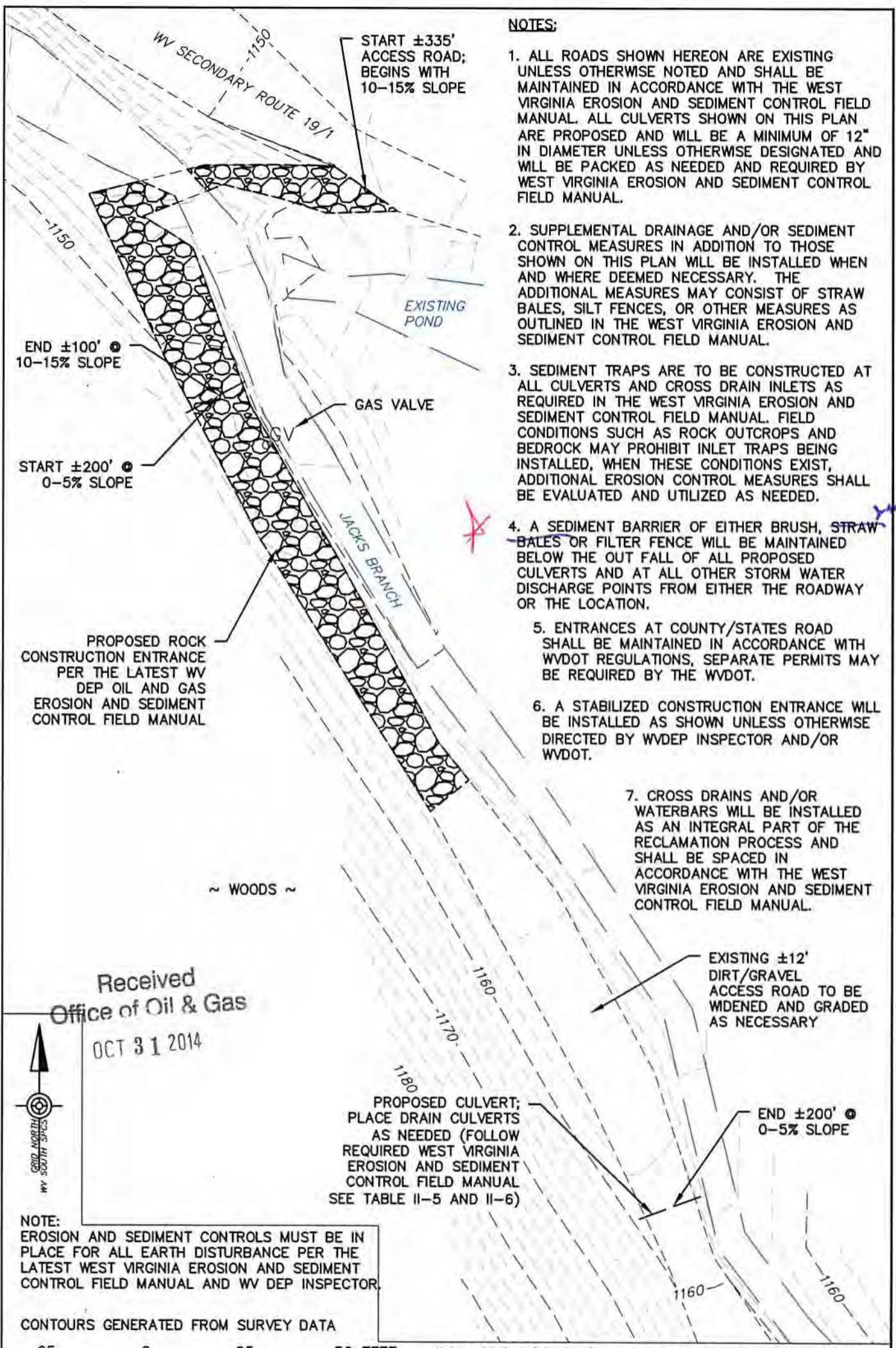
Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

Received
Office of Oil & Gas
OCT 31 2014

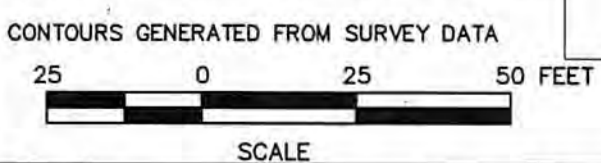


- NOTES:**
1. ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL. ALL CULVERTS SHOWN ON THIS PLAN ARE PROPOSED AND WILL BE A MINIMUM OF 12" IN DIAMETER UNLESS OTHERWISE DESIGNATED AND WILL BE PACKED AS NEEDED AND REQUIRED BY WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL.
 2. SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL MEASURES IN ADDITION TO THOSE SHOWN ON THIS PLAN WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. THE ADDITIONAL MEASURES MAY CONSIST OF STRAW BALES, SILT FENCES, OR OTHER MEASURES AS OUTLINED IN THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL.
 3. SEDIMENT TRAPS ARE TO BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAIN INLETS AS REQUIRED IN THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD 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.
 4. A SEDIMENT BARRIER OF EITHER BRUSH, STRAW BALES OR FILTER FENCE WILL BE MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DISCHARGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.
 5. ENTRANCES AT COUNTY/STATES ROAD SHALL BE MAINTAINED IN ACCORDANCE WITH WVDOT REGULATIONS, SEPARATE PERMITS MAY BE REQUIRED BY THE WVDOT.
 6. A STABILIZED CONSTRUCTION ENTRANCE WILL BE INSTALLED AS SHOWN UNLESS OTHERWISE DIRECTED BY WVDEP INSPECTOR AND/OR WVDOT.
 7. CROSS DRAINS AND/OR WATERBARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL.

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Office of Oil & Gas
OCT 31 2014



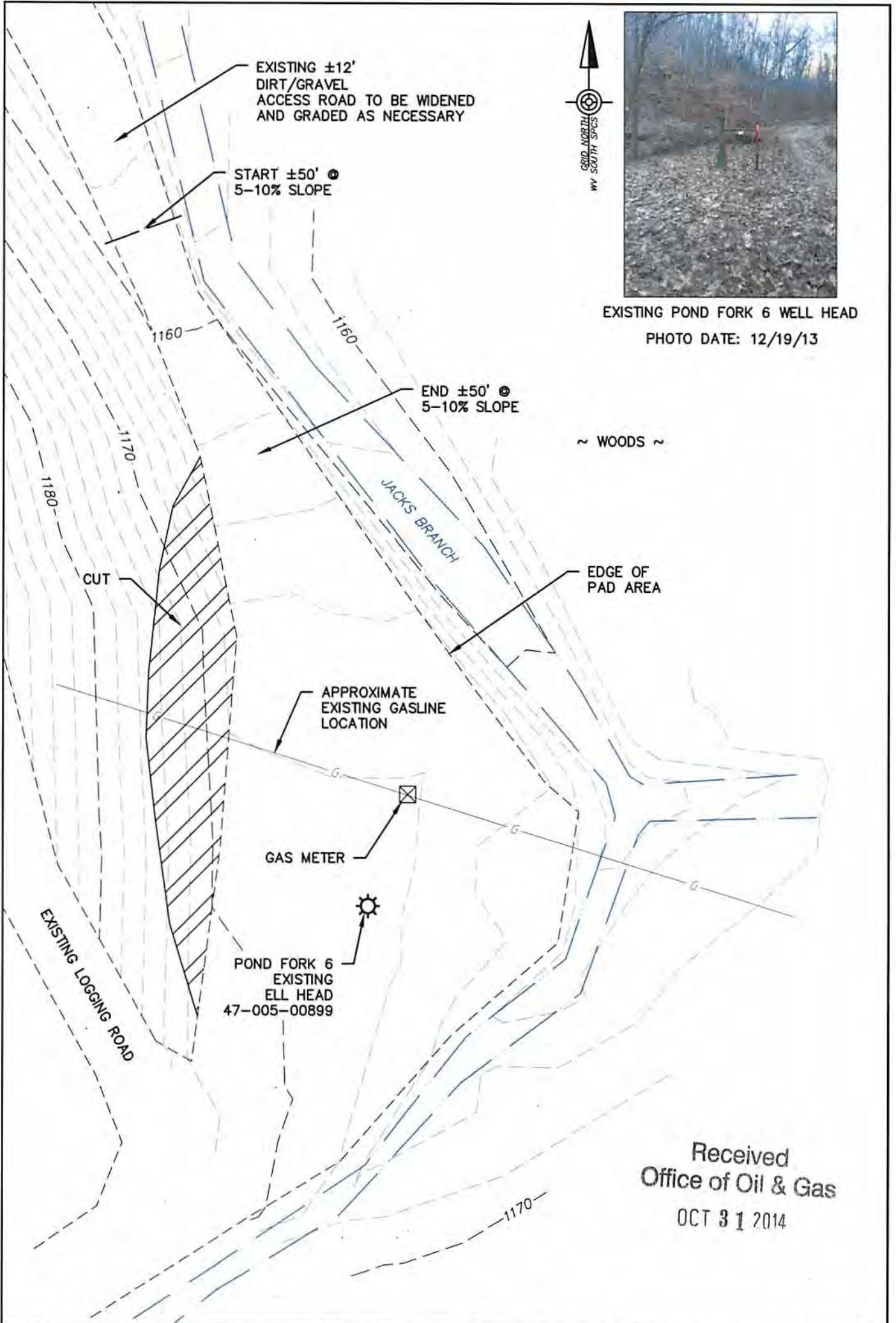
NOTE:
EROSION AND SEDIMENT CONTROLS MUST BE IN PLACE FOR ALL EARTH DISTURBANCE PER THE LATEST WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL AND WV DEP INSPECTOR.



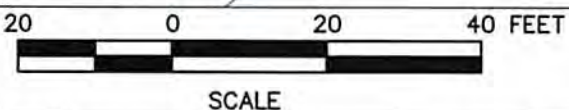
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12/12/14

PROJECT NO.: 8744-007	SHEET NO.: 1 of 2	RECLAMATION PLAN		
		POND FORK 6		
		CROOK DISTRICT, BOONE COUNTY, WEST VIRGINIA		
CABOT OIL & GAS CORPORATION FIVE PENN CENTER WEST, SUITE 401 PITTSBURGH, PA 15276-0130 PHONE (304) 369-1771 DATE: 4/08/13 DRAWN BY: RTC CHECKED BY: THK		Larson Design Group • Architects Engineers Surveyors 2502 Cranberry Square Morgantown, WV 26508 PHONE 304.777.2940 TOLL FREE 877.323.6603 FAX 570.323.9902 • www.larsondesigngroup.com		



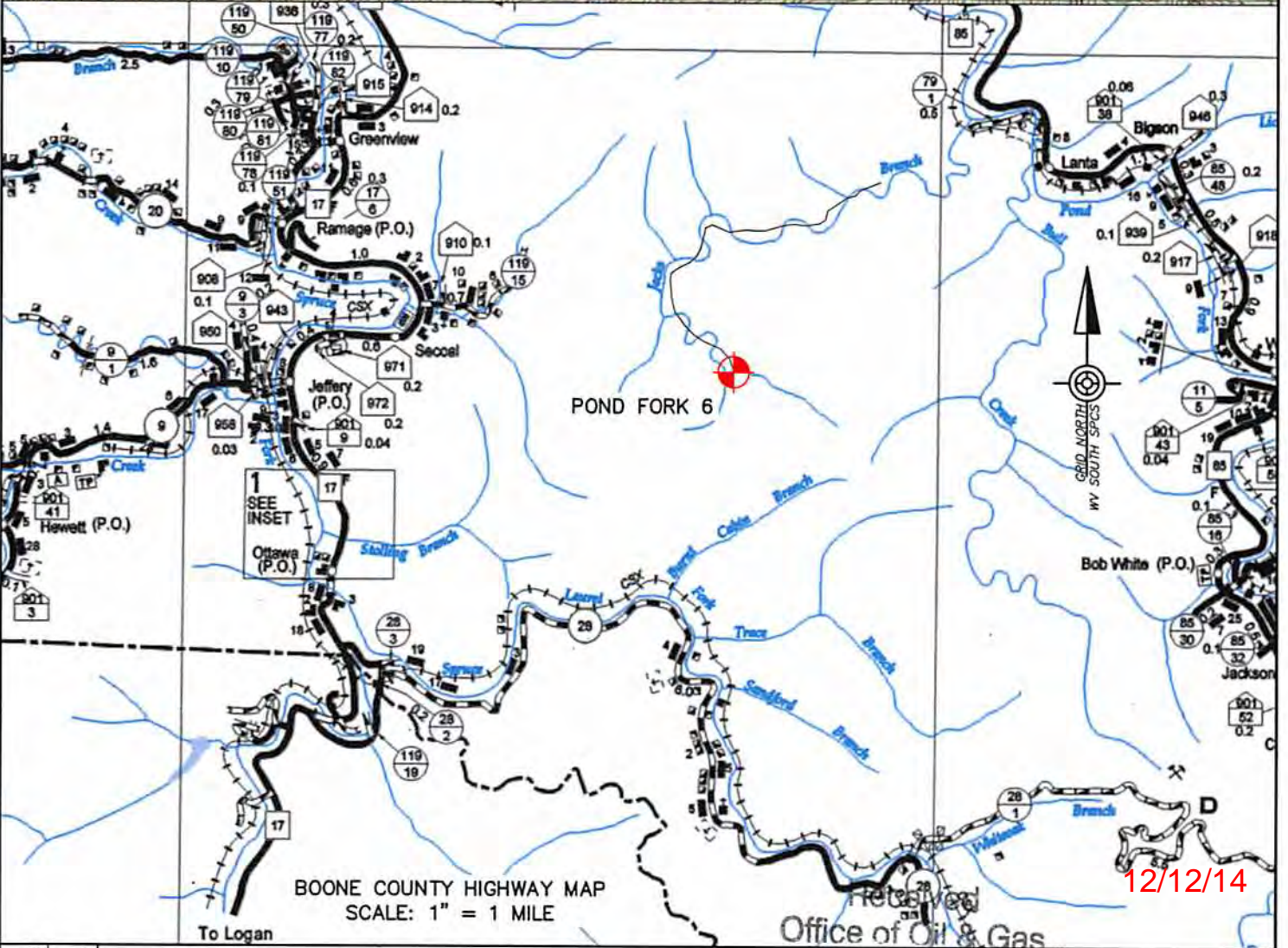
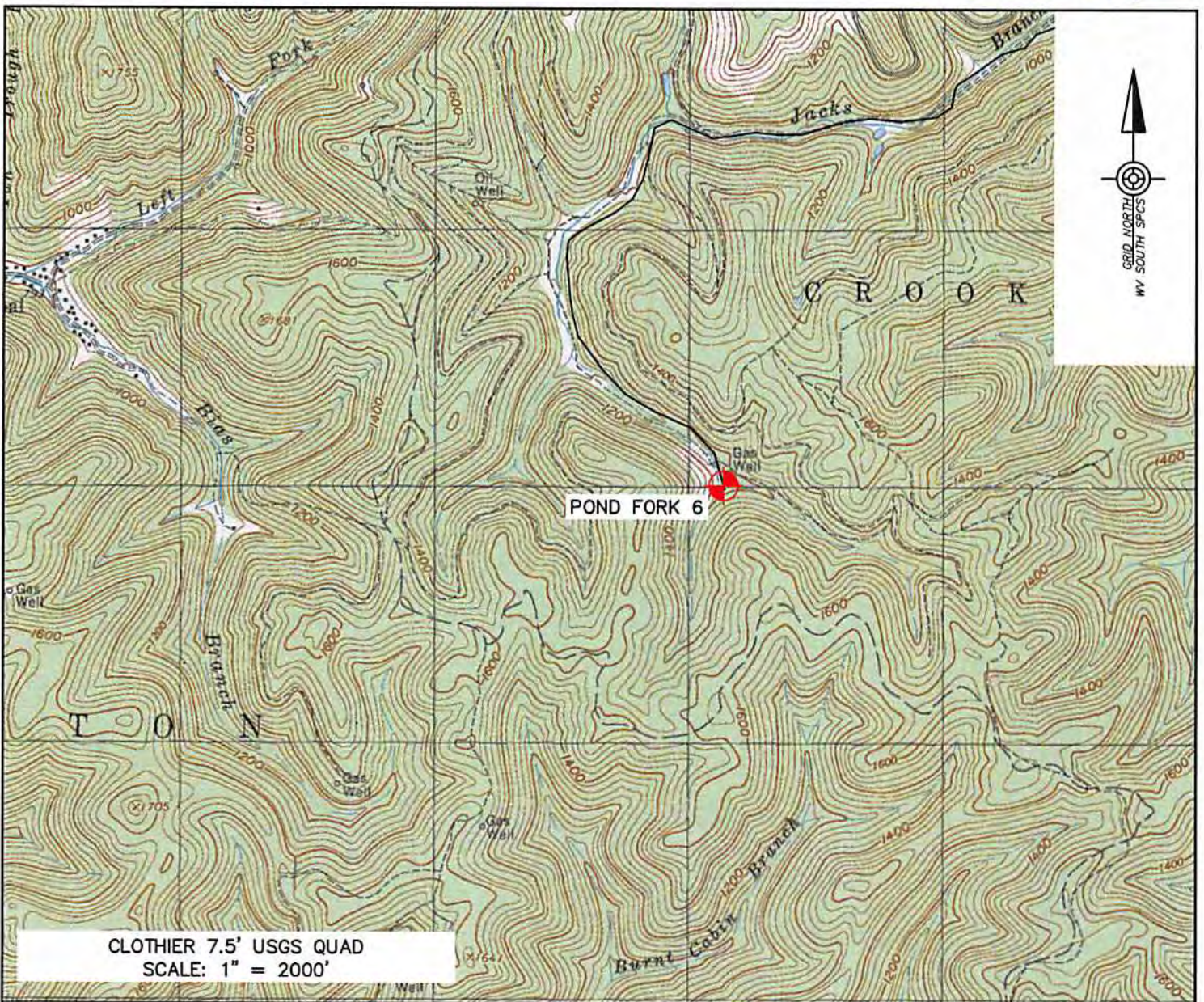
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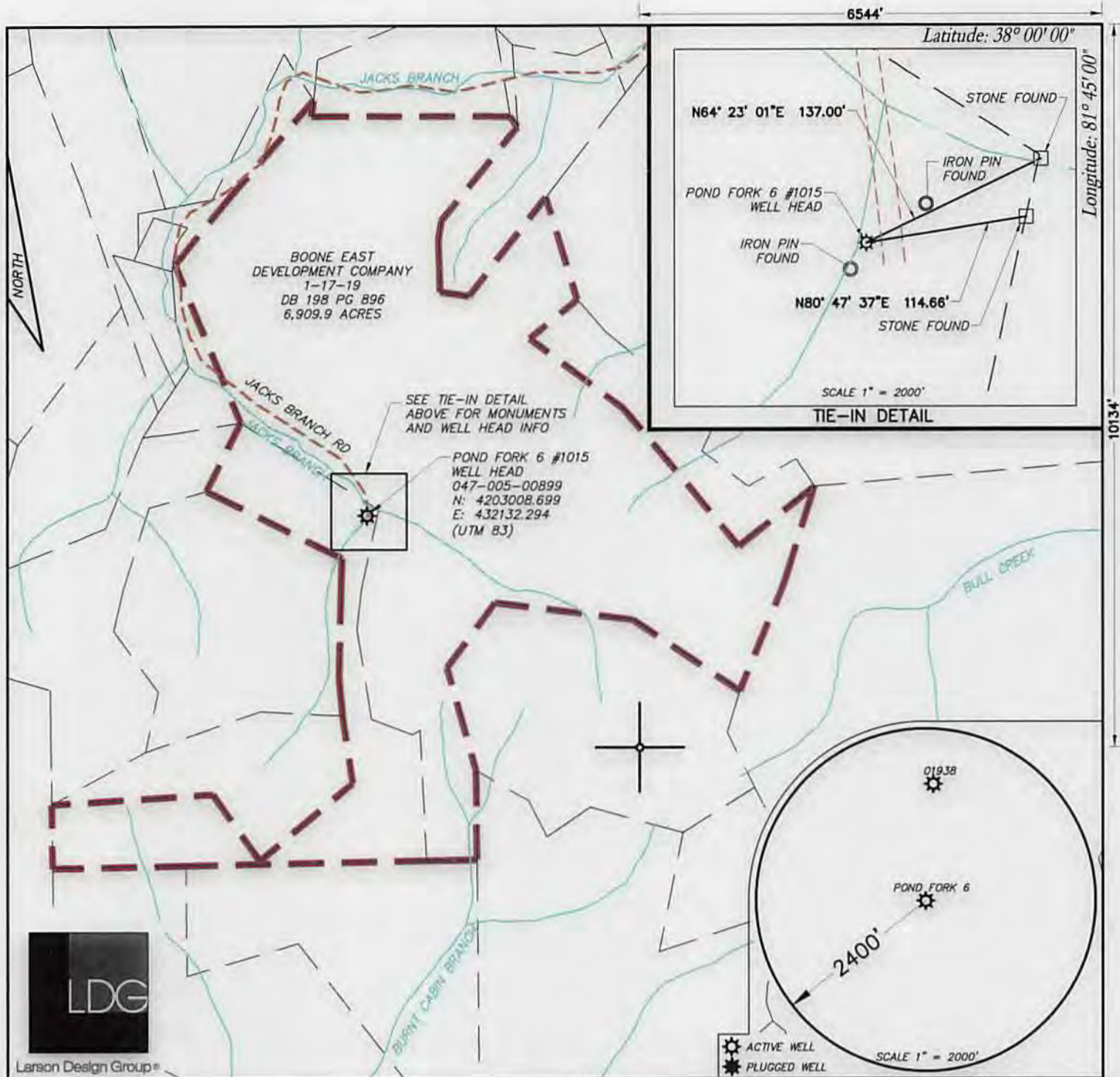
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12/12/14

PROJECT NO: 8744-007 SHEET NO.: 2 of 2	RECLAMATION PLAN POND FORK 6 CROOK DISTRICT, BOONE COUNTY, WEST VIRGINIA		
	CABOT OIL & GAS CORPORATION FIVE PENN CENTER WEST, SUITE 401 PITTSBURGH, PA 15276-0130 PHONE (304) 369-1771 DATE: 4/08/13 DRAWN BY: RTC CHECKED BY: THK	Larson Design Group • Architects Engineers Surveyors 2502 Cranberry Square Morgantown, WV 26508 PHONE 304.777.2940 TOLL FREE 877.323.6603 FAX 570.323.9902 • www.larsondesigngroup.com	



PROJECT NO.: 8744-007	SHEET NO.: 1	LOCATION MAP		OCT 31 2014
		POND FORK 6		
CROOK DISTRICT, BOONE COUNTY, WEST VIRGINIA				
CABOT OIL & GAS CORPORATION FIVE PENN CENTER WEST, SUITE 401 PITTSBURGH, PA 15276-0130 PHONE (304) 369-1771 DATE: 4/08/13 DRAWN BY: RTC CHECKED BY: THK		Larson Design Group • Architects Engineers Surveyors 2502 Cranberry Square Morgantown, WV 26508 PHONE 304.777.2940 TOLL FREE 877.323.6603 FAX 570.323.9902 • www.larsondesigngroup.com		
		 Larson Design Group®		



FILE #: 8744-007
 DRAWING #: 1
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: 1" in 2500'
 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS

PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*
 R.P.E.: _____ L.L.S.: 1969



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



DATE: JUNE 19, 2014
 OPERATOR'S WELL #: POND FORK 6 #1015
 API WELL #: 47 05 00899 P
 STATE COUNTY PERMIT

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

WATERSHED: JACKS BRANCH ELEVATION: 1191'

COUNTY/DISTRICT: BOONE/CROOK QUADRANGLE: CLOTHIER

SURFACE OWNER: BOONE EAST DEVELOPMENT ACREAGE: 6,909.9

OIL & GAS ROYALTY OWNER: POND FORK COAL COMPANY (47-2555) ACREAGE: 6,898.18 12/12/14

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: DEVONIAN SHALE ESTIMATED DEPTH: 3449' - 4714'

WELL OPERATOR CABOT OIL & GAS CORPORATION DESIGNATED AGENT WHITNEY JOHNSON
 Address FIVE PENN CENTER WEST, SUITE 401 Address CABOT OIL & GAS CORPORATION, P.O. BOX 450
 City PITTSBURGH State PA Zip Code 15276 City GLASGOW State WV Zip Code 25086

FORM WW-6



Received
Office of Oil & Gas
OCT 31 2014

October 29, 2014

Chief
West Virginia Division of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Pond Fork #6
Crook District, Boone County, WV
API # 47-005-00899
Written Application to plug and abandon wellbore

Dear Chief:

In accordance with Article 22-6-23 of the Code of State Regulations regarding oil and gas operations, please find attached a formal application for the plug and abandonment of the subject well.

Notices of our intention to plug this wellbore have been sent to surface owner, coal owner, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records.

If you have any questions or need additional information, I can be reached at 412-249-3850.

Sincerely,



Kenneth L. Marcum
Regulatory Supervisor