

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

July 12, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10901121, 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.

Operator's Well No: POCA LAND B-31

Farm Name: POCAHONTAS LAND CORP.

API Well Number: 47-10901121
Permit Type: Plugging
Date Issued: 07/12/2013

Promoting a healthy environment.

WW-4B Rev. 2/01

1)Date	June 25	,	20 13
2) Opera	ator's		-
Well	No. Poc	ahontas La	and B-31
3) API W	Well No.	47- 109	- 01121

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

	APPLICATION FOR A PERM	4IT TO PLUG AND ABANDON
4)	Well Type: Oil / Gas X / Liquid	d injection / Waste disposal /
- /		derground storage) Deep/ Shallow_X_
5)	Location: Elevation 2,031.37	Watershed Unnamed Tributary of Cabin Creek
	District Center	County Wyoming Quadrangle Mullens
6)	Well Operator Cabot Oil & Gas Corporation	7) Designated Agent Brian D. Hall
	Address Five Penn Center West, Ste. 401	Address 6804 Lick Creek Road
	Pittsburgh, PA 15276	Danville, WV 25053
8)	Oil and Gas Inspector to be notified	
	Name_ Barry Stollings	Name_Francis Brothers, LLC
	Address P.O. Box 1228	Address 622 Church St., N.
	Chapmanville, WV 25508	Ripley, WV 25271
	9	NIM OK
	fication must be given to the district oi can commence.	l and gas inspector 24 hours before permitted
		JUL 1 2013
Nork	corder approved by inspector	Date
.01 1	Torque approved by inspector	Office of Oil and Gas WV Dept. of Environmental Protection

POCAHONTAS LAND B-31 API # 47 - 109 - 01121 PLUGGING PROCEDURE

Current Configuration

DTD @ 3737'

16 conductor @ 43' KB, not cemented

 $8^{5}/8$ " — 24# J-55 casing @ 1155' KB, cemented & grouted to surface $4^{1}/2$ " — 10.5# - J-55 casing @ 3722' KB w/ TOC @ 2090'

2-3/8" - EUE tubing @ 3517' KB Weir perforations: 3630' - 3656'

Big Lime perforations: 2942' - 2950', 3130' - 3140', & 3295' - 3302'

Little Lime perforations: 2763' - 2773'

Maxton formation: 2550' - 2630' (not perforated) Ravencliff formation: 1700' - 1720' (not perforated)

Coal @ 290' - 293', 610' - 612', 894' - 897', & 1000' - 1003'

Fresh water @ 110' & 989'

PROCEDURE

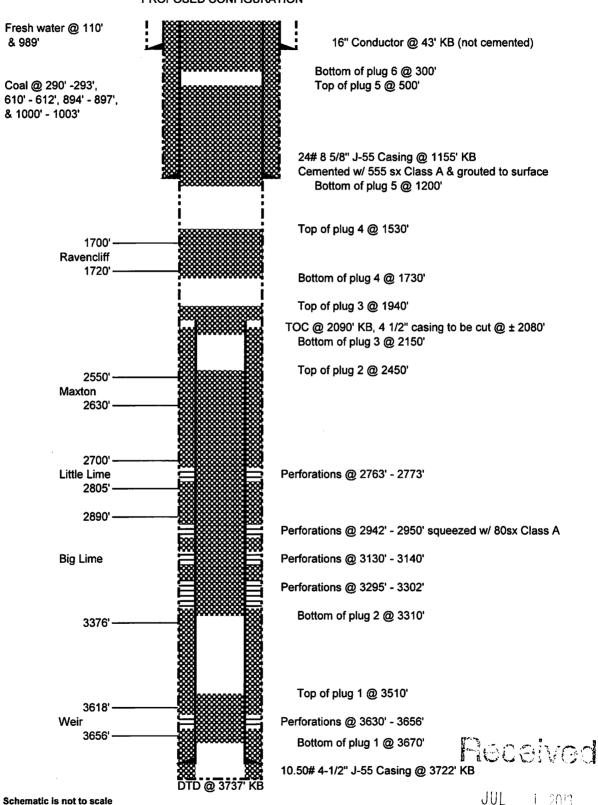
- 1. Contact Pineville District Office a minimum of 48 hours prior to starting work
- 2. Contact state inspector a minimum of 24 hours prior to starting work.
- 3. MIRU service rig and blow down well.
- 4. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x 8-5/8" annulus.
- 5. Unpack wellhead and ensure tubing is free and can be pulled.
- 6. Run rig tools to determine well TD and note any fluid level.
- 7. Lower tubing to approximately 3670' with five joints of tubing.
- 8. MIRU Cementing Company.
- 9. Pump 10 barrels of 6% Gel.
- 10. Pump 12 sacks of Class A cement for Cement Plug 1 from 3670' to 3510'.
- 11. Displace with 13 bbls of 6% Gel.
- 12. Pull tubing to 3310' and pump 65 sacks of Class A cement for Cement Plug 2 from 3310' to 2450'.
- 13. Displace with 9 bbls of 6% Gel.
- 14. POOH with tubing and let cement plug set for a minimum of eight hours.
- 15. Run freepoint and cut 4 ½" casing where free. Estimate ±2080'. Pick up casing 1 it and pump 15 bbls 6% gel.
- 16. POOH with casing.
- 17. TIH with tubing to 2150' and pump 45 sacks Class A cement for Cement Plug 3 from 2150' to 1940'.
- 18. Displace with 7 bbls of 6% Gel.
- 19. Pull tubing up to 1730' and pump 57 sacks of Class A cement for Cement Plug 4 from 1730'
- 20. Displace with 6 bbls of 6% Gel.
- 21. Pull tubing up to 1200' and pump 210 sacks of Class A cement for Cement Plug 5 from 1200' 500'.
- 22. Displace with 2 bbls of 6% Gel.
- 23. Pull tubing up to 300' and pump 90 sacks of Class A cement for Cement Plug 6 from 300' to surface.
- 24. TOOH with tubing and lay down.
- 25. RDMO Cement company
- 26. Erect Monument according to Law.
- 27. RDMO.

Received

JUL 1 2013

Pocahontas Land B-31

API 47-109-01121
PROPOSED CONFIGURATION



JUL | 2013 T. Ou. 02/04/13 WR-35

REVISED

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Date June 27, 2005 API# 47- 084 - 01121F 109-012 F

Farm Name:	Poc	ahontas Land (Corp.	Operat	or Well	No.:	Poca L	and B-	31 Work	cover	
LOCATION:	Elevation:	2022) ¹	Quadra	anale:		Mullens				
LOCATION.	District:	Cer	_	County	-		Raleig	jh			•
	Latitude:	9880'	feet South of	•	DEG.	37'	MIN.	30"	SEC.		
				81°			MIN.	30"	SEC.		
	Longitude:	3910	icet Mear or							Compat Fill	ł.
					sing &					Cement Fill	
				Tubi	ng Size	Used in	Drilling	Left i	n Well	Up Cu. Ft.	Į
Company:	Cabot Oil & G	as Corporation	1		16°	4:	3'	4	3'	Existing	l
• •		et East, Suite 5			10	7					1
	Charleston, W	V 25301			E (09	11	55'	11	55'	Existing	
	3 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,		°	5/8"	1 ''	JJ			LAISTING]
Agent:		Thomas S	. Liberatore		4 (0)			27	ràgi	Eviotina	1
Inspector:	•	the second secon	Stollings	- 4	1/2"			31	'22'	Existing	
Permit Issued			/2004	-				. 0000		05	
Well Work Co			7 19, 2004		Squ	<u>ieeze inte</u>	perts (a	2922		95	ļ
		March		-		Ť				4174	1
Well Work Co Verbal Pluggi	•	Maici	U, 2007	- 2	3/8"	1		31	22'	N/A	1
	•			-		 				 	1
Permission g				l						1	1
Rotary X			722	-		 					1
Total Depth (ompletion Repo	:							1
Fresh Water						 		 	•		1
Salt Water De			ompletion Repo	-		i		Ì			
	mined in area		Danad	- L		<u></u>		<u> </u>	· ·	<u> </u>	١.
Coal Depths	(π) See Ongil	nal Completion	кероп								-
OPEN FLOW	DATA										
					Pay Z	one	;	3130-31	40		
Producing F	ormation	Big I	Lime		Depth	n (ft)		2763-27	773		
				<u> </u>	Oil: I	nitial Ope	n Flow		0	Bbl/d	
Final O	pen Flow	Not Report	MCF/			inal Ope			0	Bbl/d	
		en initial and fi			8	•	Hours			,,	
Static rock or	ressure	110	osig surface pre	ssure a			Hours	;			
V.0.00. p.			pro-								
					Pay Z						
Second Prod	ducing Forma	tion			Depti	ι (π) _					
Gas: Initial C	Doen Flow		MCF/	d	Oil: I	nitial Ope	n Flow			Bbl/d	
	pen Flow		MCF/			inal Ope				Bbl/d	
	•	en initial and fi		_	·		Hours				
Static rock pr	•		psig surface pre	SSUITA 2	fter		Hours				
•											
			OLLOWING: 1.)								_
			.) THE WELL LO			STEMATIC	C DETAIL	ED GEO	OLOGICA	AL RECORD OF	Ť
ALL FORMAT	IONS, INCLUDIN	1G COAL ENCO	UNTERED BY T								
			For:	CAB	OT OIL &	GAS CORF	ORATION	ı			
				1	Λ	1_					
			By:	بيل	. [-]	<u> </u>		Dri	ling Sup	erintendent	- .
			Date:	بعد	200	75	MEGEN				-
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						W	/ Depa:tm	ent of	1		
						Enviro	rmentel F	rotection	1		



JUL 1 2010

Multiple of Oil and Qass

109-1121F

STAGE	PERFS	ACID 15% HCI			NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Big Lime	3130-3140 (40)	250 gal	75Q	29225	443,000		2900	3581	2725
2-Big Lime	2763-2773 (40)	250 gal	75Q	30413	391,290		2422	2471	2131

FORMATION	TOP	BOTTOM	REMARKS	
Surface Rock	Surface	750		
Sandstone	750	1155		
Shale	1155	1220		
Sandstone	1220	1445	,	
Shale	1445	1700		
Ravencliff	1700	1720		
Shale	1720	1765	,	
Avis	1765	1815		
Shale w/ Siltstone	1815	2550		
Sandstone	2550	2630		
Shale	2630	2700		
Little Lime	2700	2805		
Pencil Cave	2805	2890		
Big Lime	2890	3376		
Shale	3376	3618		
Weir	3618	3658		,
Shale	3658	3722	TD	

07/12/2013 Received

JUL 1 2015 WR-35

RECEIVE

DEPT. OF ENERGY

State of West Virginia DEPARTMENT OF ENERGY

API # 47-109-01121

03-Nov-89

Division of Oil and Gas Well Operator's Report of Well Work

Farm name:

POCAHONTAS LAND CORP.

Operator Well No.: POCAHONTAS B-31

Location: Elevation: 2027.86

Quadrangle: MULLENS

District:

CENTER

Latitude:

9900 Feet South of 37

County: WYOMING Deg. 30 Sec.

Longitude:

3800 Feet West of 81

37 Min. 27 Min. Deg.

Company: CABOT OIL & GAS CORPORATION

P. O. Box 1473

Charleston, WV 25325

Agent: DAVID G. MCCLUSKEY

Inspector: RODNEY G. DILLON

Permit Issued:

11/3/80 89 12/6/89

Well Work Commenced: Well Work Completed:

12/13/89

Verbal Plugging

Permission granted on:

Rotary X Cable Total Depth (feet) 3737 Rig

Fresh water depths (ft) 110, 989

Salt water depths (ft) N/A

Is coal being mined in area (Y/N): Coal Depths (ft): 290-293, 610-612 894-897, 1000-1003

OPEN FLOW DATA

Casing &	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size 16"	43,	43′	
8-5/8"	1155.45'	1155.45'	605 sks CL-A w/ 3% CC
4-1/2"	3722'	3722'	190 sks CL-A w/ 1. 1% CC
1-1/2"		3636'	1.00

Producing formation Gas: Initial open flow	Berea Big Lime	Don some desired and	3630-3656
Final open flow Time of open flow	1254 MCF/d	Final open flow	0 Bb1/d 0 Bb1/d
Second Producing formati	on	Tace pressure) after _	0 Hours
Gas: Initial open flow Final open flow Time of open flow Static rock Pressure	between initial and	Il: Initial open flow	Bb1/d Bb1/d

ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, PRACTURING 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:

CABOT OIL & GAS CORPORATION

By:

Date:

Received

JUL 1 2013 DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforate Berea 3630'-3656' 1 SP2F (14 holes). Break down Weir w/ 500 gal 15% HCl. BDP 1406 psi. ISIP 1347 psi. Treated w/ 70,000 lbs sand & 461,570 scf N, in 75Q foam. Perforate Big Lime 2942'-2950' 1 SPF (9 holes), 3130'-3140' 1 SPF (11 holes) & 3295'-3302' 1 SPF (8 holes). Break down Big Lime w/ 500 gal 15% HCl w/ frac ball. BDP 1673 psi. ISIP 1864 psi. Treated w/ 103 bbls acid.

FORMATION	TOP	BOTTON	
Surface Rock	0		
Sandstone		750	
Shale	750	1155	
Sandstone	1155	1220	
	1220	1445	
Shale	1445	1700	
Ravencliff	1700		
Shale	1720	1720	
Avis	1765	1765	٠:,
Shale w/ Siltstone	1815	1815	٠.
Sandstone		2550	
Shale	2550	2630	
	2630	2700	
Little Lime	2700	2805	: :
Pencil Cave	2805		•
Big Lime	2890	2890	
Shale	3376	3376	
Weir		3618	
Shale	3618	3658	•.
	3658	TD	

Received 07/12/20

1 2013

JUL

Office of Oil and Gas WV Dept. of Environmental Protect WW-4A Revised 6-07

1) Date:	June 25, 2013	
2) Operator	's Well Number	
Pocahontas	Land B-31	

3) API Well No.: 47 -

109 - 01121

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

	NOTICE	FAFFLICATI	ION I	O FLUG AN	D ABANDON A WELL	<u>.</u>
(a) Name Address	P.O. Box 1517 Bluefield, WV 24	Corporation 1	<u>/</u> _/	oal Operator Name Address	See Attached Sheet	
(b) Name Address	Anthony R. Flaim P.O. Box 944 Pineville, WV 24		<u>im V</u>	(b) Coal Ow Name Address	Pocahontas Land Corpo P.O. Box 1517 Bluefield, WV 24874	ortion ✓
(c) Name Address			_	Name Address		
6) Inspector Address Telephone	Barry Stollings P.O. Box 1228 Chapmanville, W (304) 552-4194	V 25508	<u>√</u>	(c) Coal Less Name Address	See with Declaration Consolidation Coal Co. 1800 Washington Rd. Pittsburgh, PA 15241	Riverside Energy Co. c/o Brooks Run Mining 208 Business St., Beckley, WV 25801
The reason y However, yo Take notice accompanyii Protection, v the Applicat	u are not required to take a that under Chapter 22-6 on g documents for a permit with respect to the well at	owing the well loca ents is that you have a any action at all. If the West Virginia C to plug and abandon the location described en mailed by registers	rights reg fode, the u a well wi l on the a ed or cer	arding the application andersigned well of the the Chief of the ttached Application tified mail or deli	perator proposes to file or has files Office of Oil and Gas, West Virgi in and depicted on the attached For vered by hand to the person(s) na	d this Notice and Application and inia Department of Environmental rm WW-6. Copies of this Notice,
OMMONWEALTH OF I Notarial Se Constance C. Carden, McDonald Boro, Washi My Commission Expires mber, Pennsylvania Asso	al Notary Public ngton County Nov. 16, 2013	Well Operato By: Its: Address Telephone	Ker Reg Five	neth L. Marc Julatory Supe	um Jemer rvisor r West, Suite 401	es ma
Subscribed and s My Commission Oil and Gas Privac		is <u>25th</u> Carden Member	day of	Jus , 2013	Notary Public	_ Received_

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our light 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 and Gas information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WV Dept. of Environmental Protection

COAL OPERATOR

POCAHONTAS LAND B-31

47-109-01121

Chief Mining, Inc. P.O. Box 446 Glen Daniel, WV 25844

Baylor Mining, Inc. P.O. Box 577 Mabscott, WV 25871

Brooks Run Mining Company, LLC 208 Business Street Beckley, Wv 25801

Pinnacle Mining Co., LLC P.O. Box 338 Pineville, WV 24874

Lo Down Energy, Inc. P.O. Box 421 Hurley, VA 24620

Received

JUL 1 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-9 Rev. 5/10

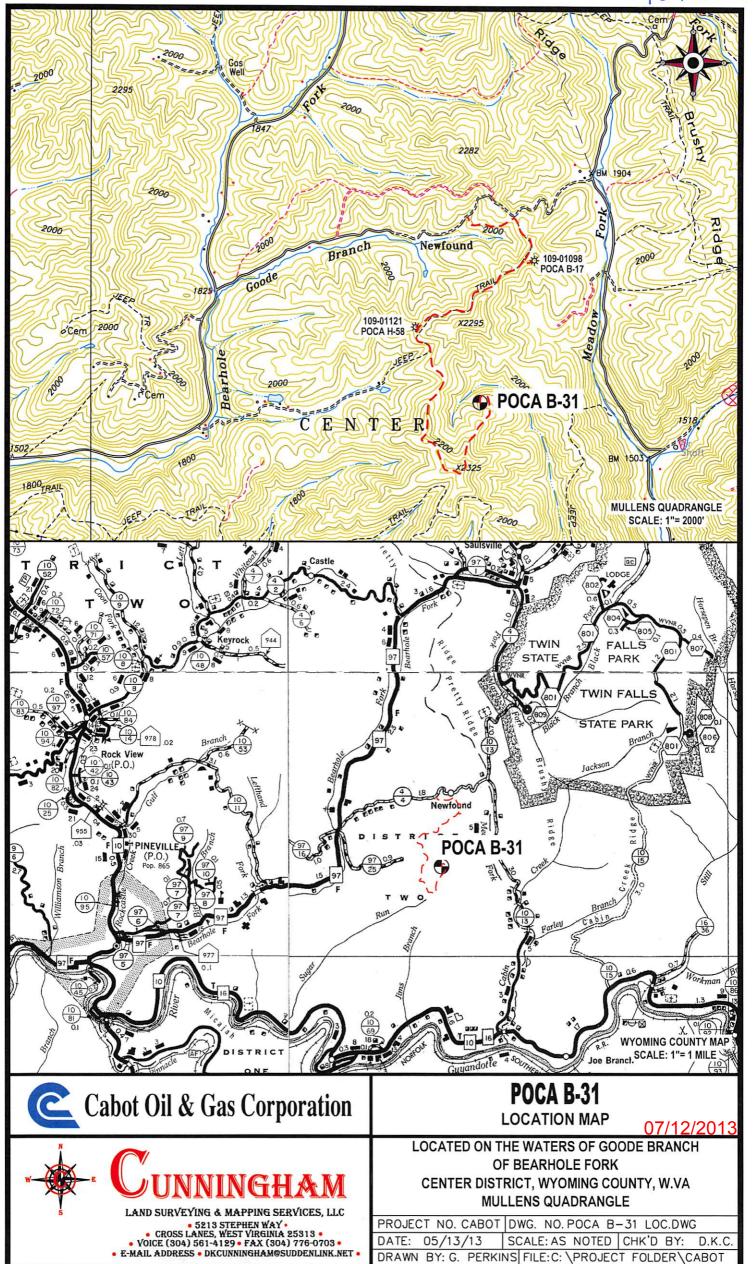
Page 1	of
API Number 47 - 109	- 01121
Operator's Well No. Poca	a Land B-31

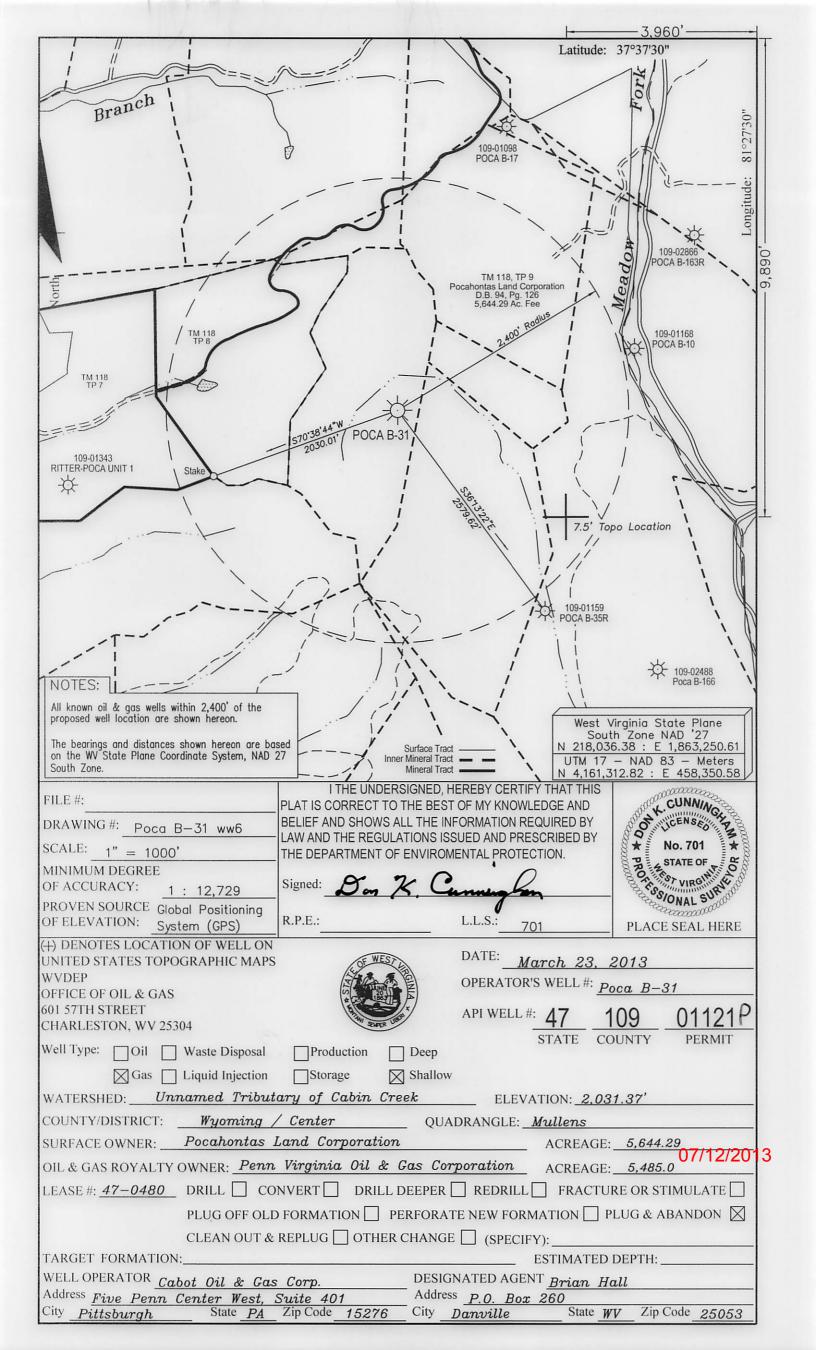
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

Operator Na	ame_ Cabo	t Oil & Gas Cor	poration		OP Code			_
Watershed_	Unnamed	Tributary of C	abin Creek	Quadrangle	Mullens	499	5	
Elevation _	2,031.37'		County Wyoming	109	District	Center	03	_
Description	of anticipate	ed Pit Waste: No	one - no cuttings pro	duced durinç	g plugging o	peration		_
Do you anti	cipate using	more than 5,000	bbls of water to complete	e the proposed	well work?	Yes	No	
Will a synth	netic liner be	used in the pit?	N/A . If s	so, what mil.?				
		nod For Treated P Land Applicat	it Wastes:					
		D (D)	njection (UIC Permit N	lumber				_)
		Off Site Dispo	sal (Supply form WW-9					_)
	XX	_ Other (Explain	n_no treated pit wast	es will be pro	oduced			_
			? Air, freshwater, oil bas					
			tic, petroleum, etc					
Additives to	be used? _	nethod? Leave in	pit, landfill, removed of	feite etc No C	uttinas produ	ced during t	olugging operat	ion
			what medium will be us				oragging operat	
			number?					_
on August 1 provisions of law or regul I c application obtaining th penalties for	of the permit lation can leastertify under form and a ne information r submitting	ne Office of Oil a t are enforceable ad to enforcement penalty of law Il attachments the on, I believe that false information	gree to the terms and cornd Gas of the West Virgiby law. Violations of a action. that I have personally enereto and that, based of the information is true, including the possibility. Kenneth L. March	ania Department on term or continuous amined and a continuous my inquiry e, accurate, and y of fine or important of the continuous and the continuous accurate.	nt of Environm ndition of the gam familiar way of those ind d complete.	ental Protect general perm ith the infor ividuals im	tion. I understan nit and/or other a mation submitte mediately respon	nd that the applicable and on this ansible for
Company O	Official Title		Regulatory Supe	rvisor				
,, o								_
Subscribed	1	efore me this <u>\$</u>	15th day of	June		2013 Rec	ceivec	Personal
My commis	sion expires	November	16. 2013		COMMON	WEALTH OF	PENNSYLVANIA	_
ing commis	sion expires		,		Const	Notarial Se	eal	W12/2013

1	LEGEND
Property Boundary	Diversion (2.222121111111111111111111111111111111
Road = = = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches @
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain
Rock Eggs	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed	Prevegetation pH 6.5
Lime Tons/acre or to correct to pH	
Total 410 20 20 500	
Fertilizer (10-20-20 or equivalent)lbs/	acre (500 lbs minimum)
Mulch Pulp Fiber at 1000 to 1500 Tons/ac	cre
	ne.
Seed	l 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 Birdsfool Trefooil - 10
Attach: Drawing(s) of road, location,pit and proposed area for land appl Photocopied section of involved 7.5' topographic sheet.	ication.
Plan Approved by:	- aived
	Receivos
Comments:	Received
Tide	Date: Office of Oil and Gas
Title:	Date: Office of Oil and Gas WV Dept. of Environmental Protection Office of Oil and Gas WV Dept. of Environmental Protection
Field Reviewed? () Yes () No Wy Dept. or





Received

3,960'

Latitude: 37°37'30"

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.

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. 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.

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

LE ROADWAYS LOCATION ROAD / OCCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION

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 SPACIN	G OF CROSS DRAINS
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPAC	CING 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

DRAWING LEGEND

PROPOSED ROAD -----EXISTING ROAD STRAW BALES SILT FENCE -0 -0-* BRUSH BARRIER TREE LINE ROCK RIP RAP DRAIN CULVERT DRILLING PIT ROAD DITCH GAS LINE FENCE LINE ROCK OUTCROP WATER WELL HOUSE/STRUCTURE UTILITY POLE 鰶 0 SPRING SPOT PIT WASTE APP. AREA

DRIVING DIRECTIONS FOR POCA #B-31

- FROM CABOT'S DISTRICT OFFICE IN PINEVILLE, W.VA DRIVE NORTH ON STATE ROUTE 10 FOR 1.2 MILES± TO STATE ROUTE 97.
- TURN RIGHT ONTO STATE ROUTE 97 AND GO EASTERLY FOR 3.0 MILES \pm TO SECONDARY ROUTE 4/4. TURN RIGHT ONTO SECONDARY ROUTE 4/4 AND GO EASTERLY FOR 1.1 MILES \pm TO THE BEGINNING OF AN EXISTING ACCESS ROAD FOR POCA B-31, LOCATED ON THE RIGHT-HAND SIDE OF THE ROAD. 3.)
- TURN RIGHT ONTO THE EXISTING ACCESS ROAD AND GO SOUTHERLY FOR 1.9 MILES± TO THE PROPOSED WELL SITE 4.) FLAGGED IN THE FIELD AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION BYAN". 1 2013

07/12/2013

Office of Oil and Gas WV Dept. of Environmental Protection





June 25, 2013

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

RE: Pocahonas Land B-31

Center District, Wyoming County, WV

API # 47-109-01121

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

Received

JUL 1 2013

Office of Oil and Gas
WV Dept. of Environmental Protection