

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

August 29, 2014

WELL WORK PLUGGING PERMIT Plugging

This permit, API Well Number: 47-7901040, 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: A-94

Farm Name: McLEAN, J. L.

API Well Number: 47-7901040

Permit Type: Plugging Date Issued: 08/29/2014

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.

WW-4B Rev. 2/01

1) Date	July	24	,	2014
2	Oper	ator	's		
	Well	No.	McLe	an A-94	
3				47-079	- 01040

08/29/2014

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

5)	Location: Elevation 910'	Watershed Eighteen Mile Creek County Putnam Ouadrangle Elmwood 338		
	District Union &	County Putnam Quadrangle Elmwood 338		
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		
8)	Oil and Gas Inspector to be notified	9)Plugging Contractor		
	Name Jamie Stevens	Name Shreve's Well Service		
		Address 3473 Triplett Road		
	Address 105 Kentuck Road	Address 3473 Triplett Road		
		Address 3473 Triplett Road Spencer, WV 25275		

Notification must be given to the district oil and gas inspector	RECEIVED Gas 24 hours before permitted
Work order approved by inspector JAMIE GREWENS	JUL 28 2014 Date of Department of
(PER PHONE COLL)	Environmental Protection 08/29/2014

J. L. MCLEAN A-94 API # 47 - 079 - 01040 PLUGGING PROCEDURE

Current Configuration

DTD @ 4983'

9 5/8" conductor @ 689' GL, cemented & grouted to surface

7" casing @ 2677' GL, cemented to surface

2-7/8" tubing w/ tbg hanger @ 2370' GL

Bottom 1671' is perforated

Devonian Shale shot from 3190' to TD

Big Lime formation: 1940' - 2100' (not perforated) Berea formation: 2610' - 2622' (not perforated)

No coal reported No water reported

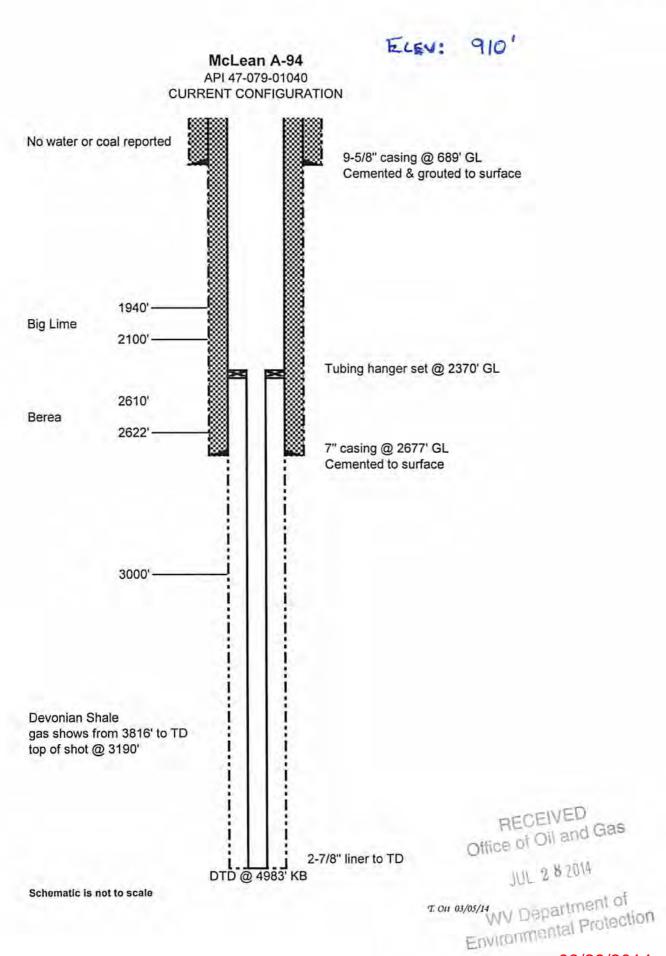
PROCEDURE

- Contact Sissonville 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. Lay 2" line from wellhead to pit/tank and stake down securely.
- 4. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
- Unpack wellhead.
- Clean out hole with 6% gel to TD.
- 7. Attempt to pull 2-7/8" liner.
- If unable to pull liner, run freepoint, cut above freepoint, and POOH
 TIH with 2³/₈" work string and clean out hole with 6% gel to 3170'.
- 10. MIRU Cementing Company.
- 11. Pump 40 sacks of Class A cement for Cement Plug 1 from 3170' to 2970'.
- 12. Displace with 11 1/2 bbls of 6% Gel.
- 13. Pull work string up to 2750' and pump 40 sacks of Class A cement for Cement Plug 2 from 2750' to 2550'.
- 14. Displace with 10 bbls of 6% Gel.
- 15. Pull work string up to 2150' and pump 58 sacks of Class A cement for Cement Plug 3 from 2150' to 1850'.
- 16. Displace with 7 bbls of 6% Gel.

 17. Pull work string up to 200' and pump 40 sacks of Class A cement for Cement Plug 4- 5
 - 18. from 200' to surface.
 - 19. TOOH with work string and lay down.
 - 20. RDMO Cement company
 - 21. Erect Monument according to Law.
 - 22. RDMO.

PLUG 4 910 AND PUMP 200' CEMENT 169. PULL WORK STRING 910'-

RECEIVED Office of Oil and Gas JUL 2 8 3014 WV Depar 08/29/2014
Environmental Protection





IV-35 (Rev 8-81)

Date October 21, 1981 Operator's Well No. A-94 Sinte of Mest Hirginia J. L. McLean

Department of Mines Wil und Gas Bivision

API No. 47 - 079 - 1040

WELL OPERATOR'S	REPORT	Ţ	BCE	IVED	•
OF DRILLING, FRACTURING AND/OR STIMUI	ATING, OF	R PHYSICAL	CHANGE 3	0 1981	
WEIL TYPE: Oil / Gas XX/ Liquid Injection (If "Gas," Production / Undergrou	/ Waste	e Disposal	OIL AND C	SAS DIVISION MENT OF MINES	
IOCATION: Elevation: 910' Watershed_	Eighteen	Mile Creek			
District: Union County Putr		Quadrangle			
COMPANY Cabot Oil & Gas Corporation					
ADDRESS P.O. Box 628, Charleston, WV 25322	0	1122 de 1	Y - 61	Cement	
DESIGNATED AGENT Richard P. Parsons	Casing	Used in	Left	fill up	
ADDRESS P.O. Box 628, Charleston, WV 25322	Tubing	Drilling	nu well	Cu. ft.	
SURFACE CWNER S.A. Jones Heirs Cos.E. Fisher	Size 20-16				
ADDRESS 435 17th Street, Dunbar, WV	Cond.				
MINERAL RIGHTS OWNER McLean Heirs	13-10"	600 71	600 71	400 -1	
ADDRESS See Attached Sheet	9 5/8	688.71	688.71	400 sks	ı [
OIL AND GAS INSPECTOR FOR THIS WORK Martin	8 5/8	0474 00			
Nichols ADDRESS Clendenin, WV 25045	7	2676.88	2676.88	400 sks	
PERMIT ISSUED 4-21-81	5 1/2				
DRILLING COMMENCED 6-29-81	4 1/2	ļ	·		
DRILLING COMPLETED 7-14-81	3				†
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	2-7/8" Liners used	2370' Tbg hang	2370' er set @	2370.48' GI	•
GEOLOGICAL TARGET FORMATION . Brown	Shale	Dept	h 437	75 feet	
Depth of completed well 4983' feet R	otary XX	/ Cable	TOOls		
Water strata depth: Fresh feet;				IED Gas	
Coal seam depths:	Is coal	being mine	الإلى المنافعة	area?	
OPEN YLOW DATA		Ou	11 2 III	8 50/4	
Producing formation Brown Shale	Pay	zone dept	L 20201_A	TO two I cop	
Gas: Initial open flow 103 Mcf/d Final open flow 356 Mcf/d Time of open flow between initial	Oil: Ini	tial open	Dev Dev	STATE OF THE	ion
Final open flow 356 Mcf/d	Fin	al open Fl	wiromna	Bb1/d	
Time of open flow between initi	al and fi	nal tests	4 hou	irs	
Static rock pressure 920 psig(surface	measurem	ent) after	72 hour	s shut in	
(If applicable due to multiple completion-	- <i>)</i>				~ ~ ~
Second producing formation_	Pay	zone dept	h	08/29/2 feet	014
Gas: Initial open flowMcf/d (Dil: Init	tial open	flow	Bb] /d	
rinal open flow Mcf/d (Dil: Fina	al open fl	OW	Bbl/d	·• •
Time of open flow between initia	al and fir	al tests	hou	re	•
Static rock pressurepsig(surface r	neasurener	nt) after_	hour	s shut in	
•				omos sili	

(Continue on reverse side)

FORM IV-35 (PEVERSE)

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

7-6-81 - Ran 18,000# 80% gelatin. Top of shot 3190'. Shot ignited 7-6-81.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand Shale Sand Shale Sand Shale Shale Shale Sand Shale Sand Sand Shale Sand Sand Shale Sand Sig Lime Shale Sand Sand Sand Sand Shale Sand Sand Sand Shale Sand Sand Shale Sand Sand Shale Sand Shale Sarey Shale Sarey Shale Sarey Shale Marcellus Shale	0 135 490 1060 1120 1190 1276 1320 1340 1390 1735 1940 2100 2155 2240 2590 2610 2622 3000 4350 4700	135 490 1060 1120 1190 1276 1320 1340 1390 1735 1940 2100 2155 2240 2590 2610 2622 3000 4350 4700 4983	Gas Shows: 3816 3850 3980 4180-4190 4302 4612-4618 4720-4740 4750-4760 4890 Temp. Shows: 3980 4300 4550-4650 4740-4800 4930-4955

(Attach separate sheets as necessary)

	CABOT OIL & GAS CORPORATION	I
Well	Operator /	
By:	12 Wann	08/29/2014
Date:	10/23/41	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including and the drilling of a well."

01040

WW-4A Revised 6-07

079

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

3) API Well No.: 47 -

(a) Name	ner(s) to be served Jason S. Ferrar	& Jenae C. Ferrari	a) Coal Operato Name	None
Address	1304 Riffee Rid		Address	DIEME.
111111111111111111111111111111111111111	Given, WV 252			
(b) Name	Otis Gerald Stone	e & Helen Lucille Stone	(b) Coal O	wner(s) with Declaration
Address	Rt. 1 Box 239	/	Name	Betty Joe Zeliff & Robert H. Zeliff
	Given, WV 252	45	Address	6211 US Highway 98, Lot F9
			-	Lakeland, FL 33809
(c) Name	Betty Joe Zeliff	& Robert H. Zeliff	Name	Access to the control of the control
Address	6211 US Highw	av 98. Lot F9	Address	
	Lakeland, FL 3		_	
6) Inspector	Jamie Stevens		(c) Coal Le	essee with Declaration
Address	105 Kentuck Ro	ad	Name	None of Record
1 500000-000	Kenna, WV 252		Address	21200 2000000
Telephone	(304) 206-7775			
(1) The well (2) The	application to Plug ar its and the plugging w plat (surveyor's map)	d Abandon a Well on Fork order; and showing the well location	orm WW-4B, whic n on Form WW-6.	
(1) The well (2) The The reasor However, 3 Take notic accompany Protection, the Applic	application to Plug ar its and the plugging w plat (surveyor's map) a you received these docu you are not required to tak e that under Chapter 22-6 ying documents for a perm with respect to the well ation, and the plat have	ad Abandon a Well on Force order; and showing the well location ments is that you have right any action at all. The west Virginia Code into plug and abandon a wat the location described on	orm WW-4B, which non Form WW-6. Its regarding the application of the undersigned we will with the Chief of the attached Applicator certified mail or detection.	h sets out the parties involved in the work and describes the ication which are summarized in the instructions on the reverses side if operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice
(1) The well (2) The The reasor However, 3 Take notic accompany Protection, the Applic	application to Plug ar its and the plugging w plat (surveyor's map) a you received these docu you are not required to tak e that under Chapter 22-6 ying documents for a perm with respect to the well ation, and the plat have	ad Abandon a Well on Force order; and showing the well location ments is that you have right any action at all. The west Virginia Code into to plug and abandon a wat the location described on been mailed by registered to the day of mailing or deliver	orm WW-4B, which on Form WW-6. Into regarding the application, the undersigned we will with the Chief of the attached Application or certified mail or dry to the Chief.	h sets out the parties involved in the work and describes the ication which are summarized in the instructions on the reverses side. If operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice, lelivered by hand to the person(s) named above (or by publication in
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My Commission Expires
Oil and Gas Privacy Notice

November 16, 2017

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.





181	U.S. Postal Service Toll CERTIFIED MAILTM RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) For delivery information visit our website at www.usps.com					
3020 0001 0841 63	Postage Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postr	s (go	the	Postmark Hore		
7013	Sent To Jamie Ste Street, Apr. 105 Kent or PO Box (Kenna, W City, State,	uck Road /V 25248		÷	ons	



Office of Oil-and Gas

JUL 2 8 2014

WV Department of Environmental Protection

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(5/13)

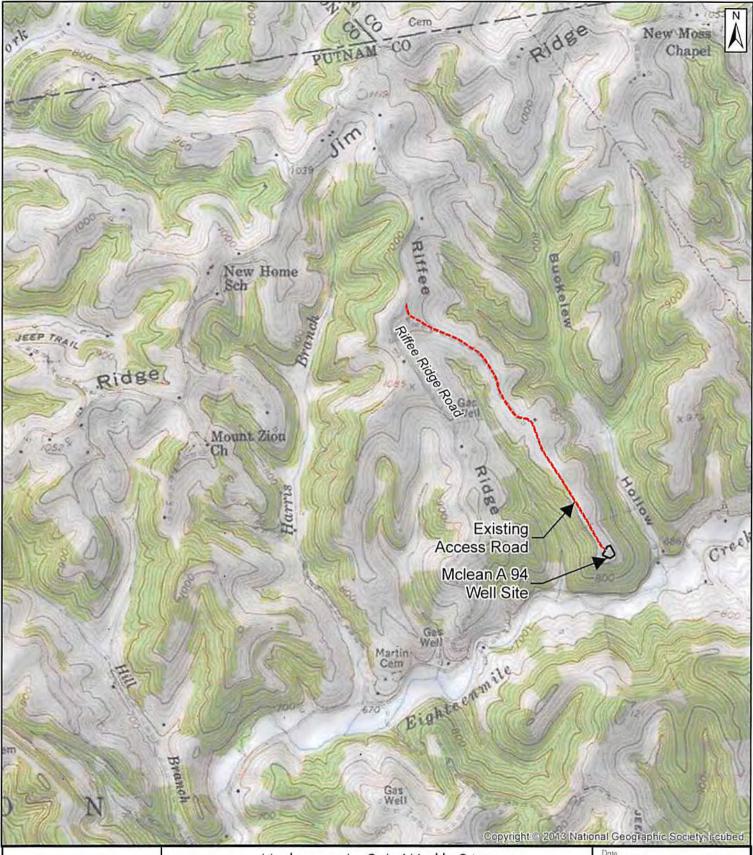
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API Number 47 -	079	-	01040		
Operator's \	Vell No.	Mo	Lean A-	94	

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 Code08145
Watershed (HUC 10)_Eighte	een Mile Creek Qu	adrangle Elmwood
Elevation 910'	County Putnam	District_ Union
Will a pit be used for drill cut If so, please describe	ttings? Yes No _X e anticipated pit waste:	ANY WELL EFFLUENT AND DIS
Will a synthetic line	r be used in the pit? Yes No	If so, what ml.?
	Method For Treated Pit Wastes:	
Ur Re Of	use (at API Number T Site Disposal (Supply form WW-9 for d	
Will closed loop system be us	sed? N/A	
Drilling medium anticipated	for this well? Air, freshwater, oil based, et	c. no drilling proposed
-If oil based, what ty	pe? Synthetic, petroleum, etc.	
Additives to be used in drilling		
		etc. No cuttings produced during plugging operation
-If left in pit and pla	n to solidify what medium will be used? (cement, lime, sawdust)
on August 1, 2005, by the Of provisions of the permit are law or regulation can lead to I certify under pena application form and all att obtaining the information, I	fice of Oil and Gas of the West Virginia Denforceable by law. Violations of any terenforcement action. Alty of law that I have personally examina achments thereto and that, based on my believe that the information is true, accomposition including the possibility of fine the second of the second	as of the GENERAL WATER POLLUTION PERMIT issue epartment of Environmental Protection. I understand that the or condition of the general permit and/or other applicable and am familiar with the information submitted on the inquiry of those individuals immediately responsible furate, and complete. I am aware that there are signification or imprisonment.
Company Official (Typed N	ame) Kenneth L. Marcum	
Company Official Title Reg	gulatory Supervisor	
	2111	
Subscribed and sworn before	me this 2H H1 day of Ju	ly , 20 14
(bustance	C. Creden	COMMONWEALTH OF PENNSYLVANIA
My commission expires 11/1	6/2017	Notarial Seal Constance C. Carden, Notary Public McDonald Boro, Washington County My Commission Expires Nov. 16, 2027 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

0.1	56 Preventation pt 6.5
rioposed Revegetation Treatment. Acres Disturbed	1 revegetation pri
Lime Tons/acre or to correct to	орн 6.5
Fertilizer (10-20-20 or equivalent)	_lbs/acre (500 lbs minimum)
_{Mulch} Pulp Fiber at 1000 to 1500 _{To}	ons/acre
	Seed Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type Ibs/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 Trefoo
Drawing(s) of road, location,pit and proposed area for land	application.
Drawing(s) of road, location,pit and proposed area for land Photocopied section of involved 7.5' topographic sheet.	
Drawing(s) of road, location,pit and proposed area for land Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	
Drawing(s) of road, location,pit and proposed area for land Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	
Drawing(s) of road, location,pit and proposed area for land Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	
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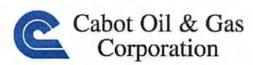
Larson Design Group e

Mclean A 94 Well Site

Location Map

Elmwood Quad

Union District, Putnam County, WV



4/23/2014

gner

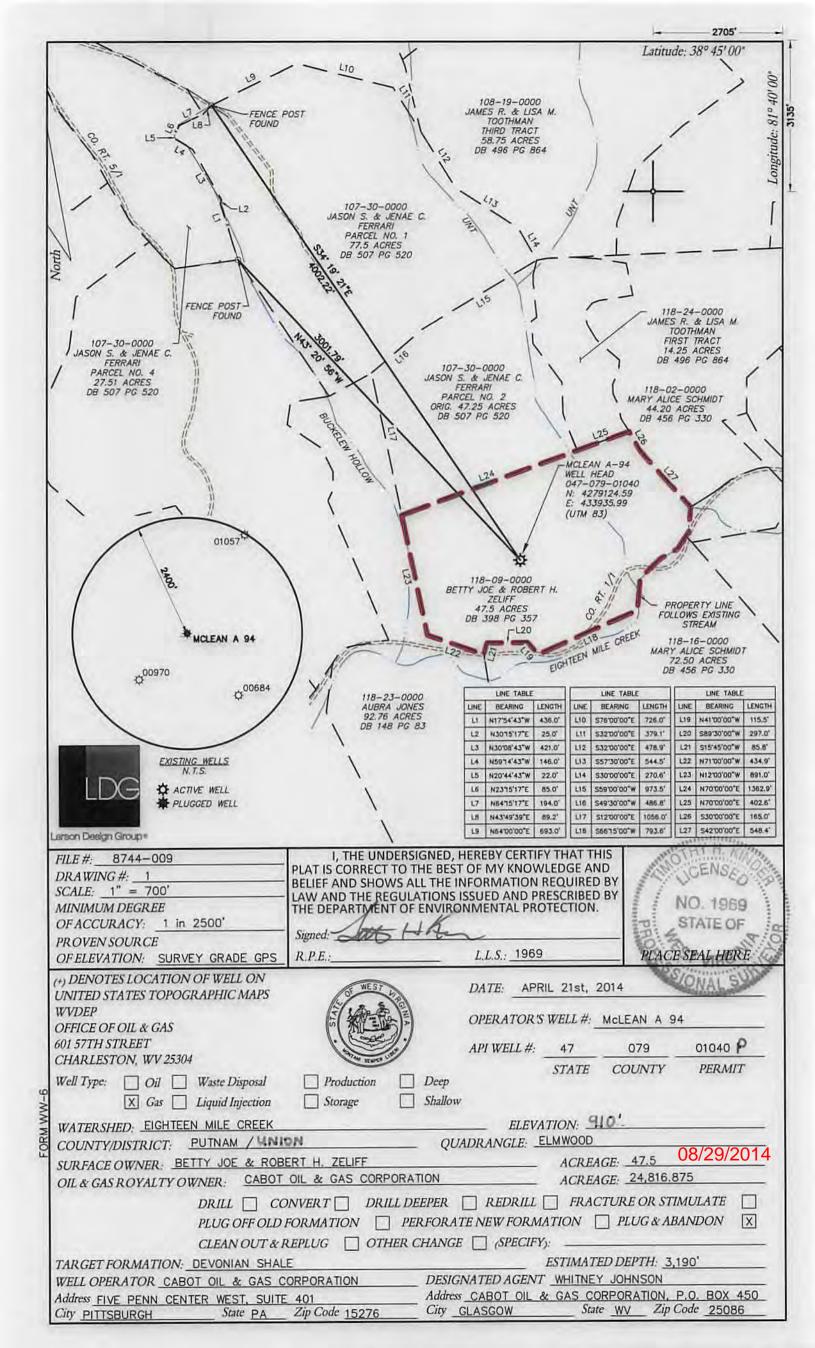
CAB

Project No.

8744-009

Scale

08/29/2014 1 inch = 2,000 feet





July 24, 2014

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

RE: McLean A-94

Union District, Putnam County, WV

API # 47-079-01040

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

Vemeto Plu

Office of Oil and Gas

JUL 2 8 2014

V/V Department of Environmental Protection