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

April 23, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10901937, issued to ENERVEST OPERATING L. L. C., 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: LC-58CR
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-10901937
Permit Type: Plugging
Date Issued: 04/23/2015

Promoting a healthy environment.

109019 37 P

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

10901937 P CBM

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's Well No. LC-58CR
3) API Well No. 47- 109 - 01937

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 CBM/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 2362' Watershed Toney Fork
District Oceana County Wyoming Quadrangle Pilot Knob (7.5) Bald Knob (15)

6) Well Operator EnerVest Operating, L.L.C.
Address 300 Capitol Street, Suite 200
Charleston, WV 25301

7) Designated Agent Barry K. Lay
Address Same

8) Oil and Gas Inspector to be notified
Mr. Danny Mullins
Danny.S. Mullins@wv.gov
304-932-6844

9) Plugging Contractor
Name R. L. Wharton Enterprises LTD
Address 261 Shiloh Lane
Buckhannon, WV 26201

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

Mobilize equipment to site. Rig-up rig.

See Attached Procedure.

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FEB 27 2015
WV Department of
Environmental Protection

Note: Well records included.

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

Work order approved by inspector Danny Mullins Date 2-24-15

10901937P CBM

LC-58CR
API# 47-109-01937C
Wyoming County, WV
Elevation: 2,362' GL

LC-58CR Well Data

Casing:	7" 17# csg set at 940' KB, cemented to surface
	4-1/2" 9.5# csg set at 1,968' KB, cemented to surface
Tubing:	2-3/8" 4.7# tbg set at 1,910' KB
Perforations:	Lower Beckley Coal: 1,771' – 1,774' KB
	Fire Creek Sand: 1,852' – 1,862' KB

DM

LC-58CR Procedure:

1. Prep LC-58CR location.
2. MIRU Service Rig and cement crew. Attempt to pull 2 3/8 prior to setting plug if unable to pull ~~same point~~
3. Break circulation and set 250' cement plug F/ 1,910' T/ 1,660'. Pull cut 2 3/8 after setting plug 1910-1660
4. TOOH to 1,660' and circulate hole with 6% gel.
5. TOOH TO 987', SET CLASS A CEMENT PLUG TO SURFACE. To cover coal seams and fresh water cement from 850 Ft to surface
6. Erect a monument with API number attached.
7. Reclaim location

gwb

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109 01937C P
CBM

Original: 04/19/13

LC-58CR
47-109-01937C
Wyoming County, WVa
Current Completion

Elevations: 2362' GL
2372' RKB

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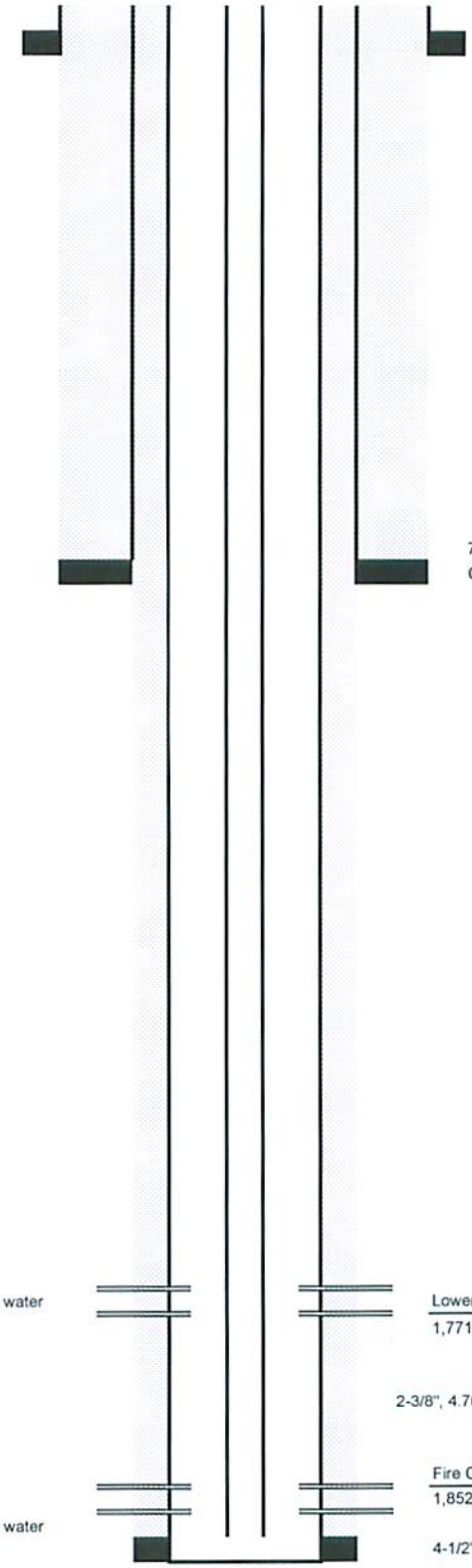

13-3/8" Conductor @ 28' KB

7", 17# LS, STC @ 940' KB
Cement to Surface with 190 Sx

Fracture Lower Beckley Coal
with 14,600# 20/40 sand & 368 bbl gelled water

Lower Beckley Coal
1,771' to 1,774' (12 holes)

2-3/8", 4.70# tubing with SN on bottom @ 1,910'

Fire Creek Sand
1,852' to 1862' (20 holes)

Fracture Fire Creek Sand
with 26,000# 20/40 sand & 447 bbl gelled water

4-1/2" 9.5# M65, STC @ 1,968' KB
Cement to surface with 240 Sx

TD @ 2,001' KB
PBTD @ 1,962'

TAC

109 - 01937CP

WR-35

DATE: 9-13-2000
API # : 47-109-01937C

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: Pocahontas Land Corporation Operator Well No.: LC-58CR

LOCATION: Elevation: 2362' Quadrangle: Pilot Knob, WV 75.

District: Oceana County: Wyoming
Latitude: 11200 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 2800 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: Penn Virginia Oil & Gas Corporation	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	13 3/8"	18'	18'	0
Duffield, VA 24244	7"	930'	930'	256
Agent: Harry Jewell	4 ½"	1960'	1960'	302
Inspector: Ofie Helmick				
Date Permit Issued: 7/12/2000				
Date Well Work Commenced: 7/18/2000				
Date Well Work Completed:				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 2012'				
Fresh Water Depth (ft.): ¼" @ 109', ¼" @ 265', 1 ½" @ 830'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 13-16, 90-94, 500-503, 684-685, 784-787,				

OPEN FLOW DATA

Producing formation Beckley Coal & Fire Creek Sand Pay zone depth (ft)_____.
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow Show MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests NA Hours
Static rock Pressure NA psig (surface pressure) after NA Hours

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WV Department of Environmental Protection

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

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

Signed:
By: William M Ryan
Date: 9/19/00

109 01937c P

WR-35

DATE: 9-13-2000
API # : 47-109-01937C

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: Pocahontas Land Corporation Operator Well No.: LC-58CR

LOCATION: Elevation: 2362' Quadrangle: Pilot Knob, WV 75.

District: Oceana County: Wyoming
Latitude: 11200 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 2800 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: Penn Virginia Oil & Gas Corporation	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	13 3/8"	18'	18'	0
Duffield, VA 24244	7"	930'	930'	256
Agent: Harry Jewell	4 ½"	1960'	1960'	302
Inspector: Ofie Helmick				
Date Permit Issued: 7/12/2000				
Date Well Work Commenced: 7/18/2000				
Date Well Work Completed: 8-17-00				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 2012'				
Fresh Water Depth (ft.): ¼" @ 109', ¼" @ 265', 1 ½" @ 830'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 13-16, 90-94, 500-503, 684-685, 784-787,				

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OPEN FLOW DATA

Producing formation Beckley Coal & Fire Creek Sand Pay zone depth (ft) _____.
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow Show MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests NA Hours
Static rock Pressure NA psig (surface pressure) after NA Hours

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

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

Signed:
By: William M Ryan
Date: 9/19/00

FORM WR-35R
(REVERSE)

PERMIT #: 47-109-01937C
WELL #: LC-58CR

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

Stage 1 – Fire Creek Sand – Perforated from 1852' to 1862' with 20 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 447 bbls water and 26000 lbs of 20/40 sand. ISIP: 1451 psi. ATP: 1802 psi. ATR: 20 BPM.

Stage 2 – Lower Beckley Coal – Perforated from 1771' to 1774' with 12 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 368 bbls water and 14600 lbs of 20/40 sand. ISIP: 1346 psi. ATP: 2648 psi. ATR: 20 BPM.

FORMATIONS	TOP	BOTTOM	REMARKS
Sand, Shale, & Coal	0	787	
Sand & Shale	787	1010	
Sand	1010	1186	
Shale	1186	1370	
Sand	1370	1564	
Coal	1564	1565	
Shale	1565	1640	
Sand	1640	1746	
Shale	1746	1772	
Beckley Coal	1772	1775	
Sand & Shale	1775	1814	
Sand	1814	1884	
Sand & Shale	1884	2012	No shows reported

109-01937CP

Penn Virginia Oil & Gas Corporation
DRILLING PROGNOSIS
LC-58C
Wyoming Co., WV
Elevation: 2050'

AFE DHC: $63150 CWC: $131125

API No. 47-109-_____, PTD: 1750'

Formation	Projected Depth	Water, Coal, Pays, etc.
Sand, Shale, Coal	0'-680'	Water @ 330', 470'
		Coal @ 20' (open ?), 155', 330', 465', 485'. **Set 7" casing @ 550'+.**
Sand	680'-910'	
Shale	910'-1070'	
Sand	1070'-1150'	
Shale	1150'-1165'	
Sand	1165'-1260'	
L. Raleigh Coal	1260'-1262'	
Shale and Sand	1262'-1450'	
L. Beckley Coal	1450'-1455'	
Shale	1455'-1490'	
Fire Creek Coal, Sh, Coal	1490'-1510'	
Shale, Sand and Coal	1510'-1750'	Coal: Poca 6 @ 1550', Poca 5 @ 1620' and Poca 4 @ 1680'
TOTAL DEPTH	**1750' +/-**	**Gas check @ TD**

1. Log well at TD with Coal Log. Run hi-res from TD to 1000'. Run GR to surface. Fax logs (5") to appropriate location.

Casing	Size	Depth
Conductor	13 3/8'	
Coal	9 5/8", 26 ppf	**90' (open mine @ 20'??)**
Intermediate	7", 17 ppf	550'
Production	4 ½", 9.5 ppf	1750'
Special Instructions: All casing from McJunkin. Order 5' & 10' pups w/4 ½".		

GAS CHECKS	See above notes. Also, take checks at other depths if gas is encountered.

Miscellaneous Remarks and Instructions:

1. **Have complete permit on rig/notify O&G Inspector (Ofie) before spudding.**
2. Record all shows of water/estimated flow rates (1" stream, etc.).
3. Record depths/thickness of all coals.
4. Wear proper safety equipment at all times. Smoke only in designated, safe areas.
5. Location is to be left free of garbage and debris.

Phone Numbers:

Charleston Office: Mike Mooney:	**(304) 949-5630 office** (304) 549-4832 mobile		
Duffield Office: Duffield Log Fax: Bill Ryan: Jim Wilson: Dick Waddell	**(540) 431-4511** (540) 431-2702 (423) 378-5001 home (423) 288-2477 home (423) 349-0429 home	**Ravencliff Office:** Harry Jewell: Jim Burns:	**(304) 294-6767** (304) 732-7910 home/fax (304) 687-1982 mobile (304)327-7393 home (304)482-0251 or 324-9490 mobile

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109-01937C P

Penn Virginia Oil & Gas

Drilling / Completion / Recompletion / Workover Report

WELL NAME & NO.: LC-58CR AFE #:

State: West Virginia County: Wyoming Quad: Pilot Knob 7½'

Projected TD: 2000 Ft Location: Elevation: GL: 2362 Ft. KB: 2372 Ft.

Rig/ Contractor: S.W. Jack Rig 16 Permit No.: 47-109-01937C

Report Date: 07/29/00 Spud Date: 07/28/00 P&A Date:

Current Depth: 200 Ft Daily Cost: $ 19565 Cost to Date: $ 19565

Present Operations: Drilling (soaping) 8 7/8" hole.
(Current Status)

Previous 24 hours activity:

MIRU S.W. Jack Drilling Rig #16. Spudded well with 17½" hammer bit at 5:30 PM, 07/28/00. Drilled 17½" hole to 28'. TOH and LD BHA. Ran 1 joint (21') 13 3/8" conductor casing. Set at 28' KB. TIH with 12 3/8" hammer bit. Drill (dusted) 12 3/8" from 28' to 90'. Hole wet at 90'. Drilled (soaped) 12 3/8" hole from 90' to 109'. Did not hit any open mines. TOH with 12 3/8" hammer bit. TIH with 8 7/8" hammer bit and drill (soap) hole from 109' to 200'.

21 joints (930') 7", 17 ppf, R3, LS, STC casing on location.
7" casing job will come up Saturday evening, 07/29/00.

9 5/8" @ 7" @ 4½" @

Released Rig Date: Completion Date: Final TD: PBTD: Date of 1st Prod:

Supplemental Information:

Day #: 1 Dusting or Foaming: Dusting Footage Drilled in Last 24 Hours 200 Ft WOB: RPM:

COAL, WATER & GAS CHECK INFORMATION

COAL	FRESH WATER		SALT WATER		GAS CHECKS:				
Depth:	Depth:	Stream inches	Depth:	Stream inches	Depth:	Tenths	Orifice	Medium	Mcfpd
13' – 16'	109 Ft	¼"				/10ths thru	"	w/	
90' – 94'						/10ths thru	"	w/	
						/10ths thru	"	w/	
						/10ths thru	"	w/	

Daily Costs:

Location cost	16000
Rig (footage) $16.25/ft x 200 ft	3250
Casing $15.00/ft x 21 ft	315
Supervision	
Daily Total	19565
Previous Total	0
Total Cost-to-Date	19565

AFE DWC: 69950

AFE CWC: 141525

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WV Department of
Environmental Protection

109-01937C P

Penn Virginia Oil & Gas

Drilling / Completion / Recompletion / Workover Report

WELL NAME & NO.: LC-58CR AFE #:

State: West Virginia County: Wyoming Quad: Pilot Knob 7½'

Projected TD: 2000 Ft Location: Elevation: GL: 2362 Ft. KB: 2372 Ft.

Rig/ Contractor: S.W. Jack Rig 16 Permit No.: 47-109-01937C

Report Date: 07/30/00 Spud Date: 07/28/00 P&A Date:

Current Depth: 722 Ft Daily Cost: $ 8583 Cost to Date: $ 28148

Present Operations: TIH with 8¾" tri cone bit.
(Current Status)

Previous 24 hours activity:

Drilled (soaped) hole from 200' to 722'. TOH with hammer bit. PU and TIH with used 8¾" tri cone bit.

21 joints (930') 7", 17 ppf, R3, LS, STC casing on location.
7" casing job will come up Sunday, 07/29/00.

7" casing cement pump schedule: 40 bbl FW, 20 bbl 6% gel, 5 bbl FW, 46 bbl cement @ 14.8 ppg, 37 bbl FW displacement (insert flapper valve ran in top of first joint).

9 5/8" @ 7" @ 4½" @

Released Rig Date: Completion Date: Final TD: PBTD: Date of 1st Prod:

Supplemental Information:

Day #: 2 Dusting or Foaming: Soaping Footage Drilled in Last 24 Hours 522 Ft WOB: RPM:

COAL, WATER & GAS CHECK INFORMATION

COAL	FRESH WATER		SALT WATER		GAS CHECKS:				
Depth:	Depth:	Stream inches	Depth:	Stream inches	Depth:	Tenths	Orifice	Medium	Mcfpd
13' – 16'	109 Ft	¼"				/10ths thru	"	w/	
90' – 94'	265 Ft	¼"				/10ths thru	"	w/	
500' – 503'						/10ths thru	"	w/	
684' – 695'						/10ths thru	"	w/	

Daily Costs:

Rig (footage) $16.25/ft x 522 ft	8483
Supervision	100
Daily Total	8583
Previous Total	19565
Total Cost-to-Date	28148

AFE DWC: 69950 AFE CWC: 141525

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Environmental Protection

109-01937C P

Penn Virginia Oil & Gas

Drilling / Completion / Recompletion / Workover Report

WELL NAME & NO.: LC-58CR **AFE #:**

State: West Virginia County: Wyoming Quad: Pilot Knob 7½'

Projected TD: 2000 Ft Location: Elevation: GL: 2362 Ft. KB: 2372 Ft.

Rig/ Contractor: S.W. Jack Rig 16 Permit No.: 47-109-01937C

Report Date: 07/31/00 **Spud Date:** 07/28/00 **P&A Date:**

Current Depth: 1020 Ft **Daily Cost: $** 15002 **Cost to Date: $** 43150

Present Operations: (Current Status) Drilling (dusting) 6½" hole.

Previous 24 hours activity:

TIH with used 8¾" tri cone bit. Drilled (soaped) 8¾" hole from 722' to 957'. TD 8¾" hole at 12:00 PM, 07/30/00. Clean hole. TOH and SBDP/DC, LD big DC/BHA.
MIRU power tongs and run GS, 21 joints (930') 7", 17 ppf, LS, R3, STC casing, 3 centralizers, 1 basket, and insert. Insert ran in top of first joint. Land casing at 940' KB. RDMO power tongs.
MIRU DS to cement 7" casing with 190 sx Class A + 2% gel + 3% $CaCl_2$ + ¼LB/sx Flake (Weight 14.8 ppg Yield 1.35 ft^3/sx). Pump 40 bbl FW, 20 bbl 6% gel, 5 bbl FW spacer ahead of cement. Displace WP with 37 bbl FW. Plug down at 4:00 PM, 07/30/00. WOC 8 hours until 12:00 AM, 07/31/00. RDMO DS. 6 bbl cement circulated to surface.
Remove plug container and back out landing joint. NU BOPE and air bowl. PU and stage in hole with used Hughes EP-4599 6½" tri cone bit. Dry hole up. Tag TOC inside casing 880'. Drill out WP/cement/GS. Begin drilling new formation at 4:00 AM, 07/31/00. Drilled (dusted) 6½" hole from 957' to 1020'.

7" @ 940 Ft 4½" @

Released Rig Date: **Completion Date:** **Final TD:** **PBTD:** **Date of 1st Prod:**

Supplemental Information:

Day #: 3 Dusting or Foaming: Dusting Footage Drilled in Last 24 Hours 298 Ft WOB: RPM:

COAL, WATER & GAS CHECK INFORMATION

COAL	FRESH WATER		SALT WATER		GAS CHECKS:				
Depth:	Depth:	Stream inches	Depth:	Stream inches	Depth:	Tenths	Orifice	Medium	Mcfpd
684' – 685'	830 Ft	1½				/10ths thru	"	w/	
784' – 787						/10ths thru	"	w/	
						/10ths thru	"	w/	
						/10ths thru	"	w/	

Daily Costs:

Rig (footage) $16.25/ft x 298 ft	4843
Casing $4.50/ft x 930 ft	4185
Float equipment	337
Power tongs	425
Cement	5112
Supervision	100
Daily Total	15002
Previous Total	28148
Total Cost-to-Date	43150

AFE DWC: 69950 AFE CWC: 141525

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APR 22 2015
WV Department of
Environmental Protection

10901937P
c

WW-4A
Revised 6-07

1) Date:
2) Operator's Well Number
LC-58CR

3) API Well No.: 47 - 109 - 01937

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 Pocahontas Land Corp.
Address PO Box 1517
Bluefield, WV 24701-1517
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name
Address

(b) Coal Owner(s) with Declaration
Name Pocahontas Land Corporation
Address PO Box 1517
Bluefield, WV 24701-1517
Name
Address

6) Inspector Mr. Danny Mullins
Address Danny.S. Mullins@wv.gov
Telephone 304-932-6844

(c) Coal Lessee with Declaration
Name Eastern Associated Coal Corp.
Address 800 Laidley Tower #1233
Charleston, WV 24324-2145

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

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

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

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

Received
Office of Oil & Gas
NOV 21 2014

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FEB 27 2015
WV Department of
Environmental Protection

Well Operator EnerVest Operating, L.L.C.
By: Barry K. Lay
Its: Senior Vice President and General Manager, Appalachia West Assets
Address 300 Capitol Street, Suite 200
Charleston, WV 25301
Telephone 304-343-5505

Subscribed and sworn before me this 11th day of August, 2014
Jerry L. Jackson Notary Public
My Commission Expires May 3, 2017

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JERRY L. JACKSON
408 PENNSYLVANIA AVE
NUTTER FORT, WV 25301
My Commission Expires May 3, 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.

10901937 P C

WESTON WV POSTAL SERVICE
WESTON, West Virginia
264529998
5514560053 -0099
02/26/2015 (304)269-1475 02:24:46 PM

Sales Receipt

Product Description	Sale Qty	Unit Price	Final Price
BLUEFIELD WV 24701-1517 Zone-1			$2.24
First-Class Mail Large Env			
6.80 oz.			
Expected Delivery: Mon 03/02/15			
*** Return Rcpt			$1.35
(Electronic)			
Use label # 70091410000097367093 for inquiry on Return Receipt (Electronic).			
@@ Certified			$3.30
USPS Certified Mail #: 70091410000097367093			
Issue Postage:			$6.89
CHARLESTON WV 25301-2145 Zone-1			$2.03
First-Class Mail Large Env			
6.00 oz.			
Expected Delivery: Sat 02/28/15			
*** Return Rcpt			$1.35
(Electronic)			
Use label # 70091410000097367109 for inquiry on Return Receipt (Electronic).			
@@ Certified			$3.30
USPS Certified Mail #: 70091410000097367109			
Issue Postage:			$6.68
Total:			$13.57

Paid by:
VISA $13.57
Account #: XXXXXXXXXXXX8403
Approval #: 03295C
Transaction #: 744
23 902830041

@@ For tracking or inquiries go to USPS.com or call 1-800-222-1811.

*** IMPORTANT: For Return Receipt (Electronic), wait one day, go to

U.S. Postal Service™
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7009 1410 0000 9736 7109

Postage	$ $2.03	0053
Certified Fee	$3.30	08
Return Receipt Fee (Endorsement Required)	$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $8.03	02/26/2015

Sent To: Eastern Associated Coal Corp.
Street, Apt. No.; or PO Box No.: 800 Laidley Tower #1233
City, State, ZIP+4: Charleston, WV 24324-2145

PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service™
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For delivery information visit our website at www.usps.com®
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7009 1410 0000 9736 7093

Postage	$ $2.24	0053
Certified Fee	$3.30	08
Return Receipt Fee (Endorsement Required)	$1.35	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $6.89	02/26/2015

Sent To: Pocahontas Land Corporation
Street, Apt. No.; or PO Box No.: P.O. Box 1517
City, State, ZIP+4: Bluefield, WV 24701-1517

PS Form 3800, August 2006 See Reverse for Instructions

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WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 109 - 01937
Operator's Well No. LC-58CR

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 Name EnerVest Operating, L.L.C. OP Code 30-9999

Watershed Toney Fork Quadrangle Pilot Knob (7.5) Bald Knob (15)

Elevation 2362' County Wyoming District Oceana

Description of anticipated Pit Waste: No Pit To Be Built

Will a synthetic liner be used in the pit? N/A.

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

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____
_____ Reuse (at API Number _____
_____ Off Site Dispposal (Supply form WW-9 for disposal location)
_____ Other (Explain _____

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Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover _____ Plugging
_____ Other (Explain No Pit To Be Built

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 Barry K Lay

Company Official (Typed Name) Barry K. Lay

Company Official Title Senior Vice President and General Manager, Appalachia West Assets

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Subscribed and sworn before me this 11th day of August, 2014

Jerry L. Jackson Notory Public

My commission expires May 3, 2017

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JERRY L. JACKSON
408 PENNSYLVANIA AVE.
NUTTER FORT, WV 26301
My commission expires May 3, 2017

10901937 P c

Form WW-9

Operator's Well No. LC-58CR

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells W
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches 12
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 2.00 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

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

Mulch Hay or Straw 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchardgrass	25	Orchardgrass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

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

Photocopied section of involved 7.5' topographic sheet.

See Attached GPS Well Location Form: GPS WW-7

Plan Approved by: Danny Mullins

Comments:

Title: OOG Inspector Date:

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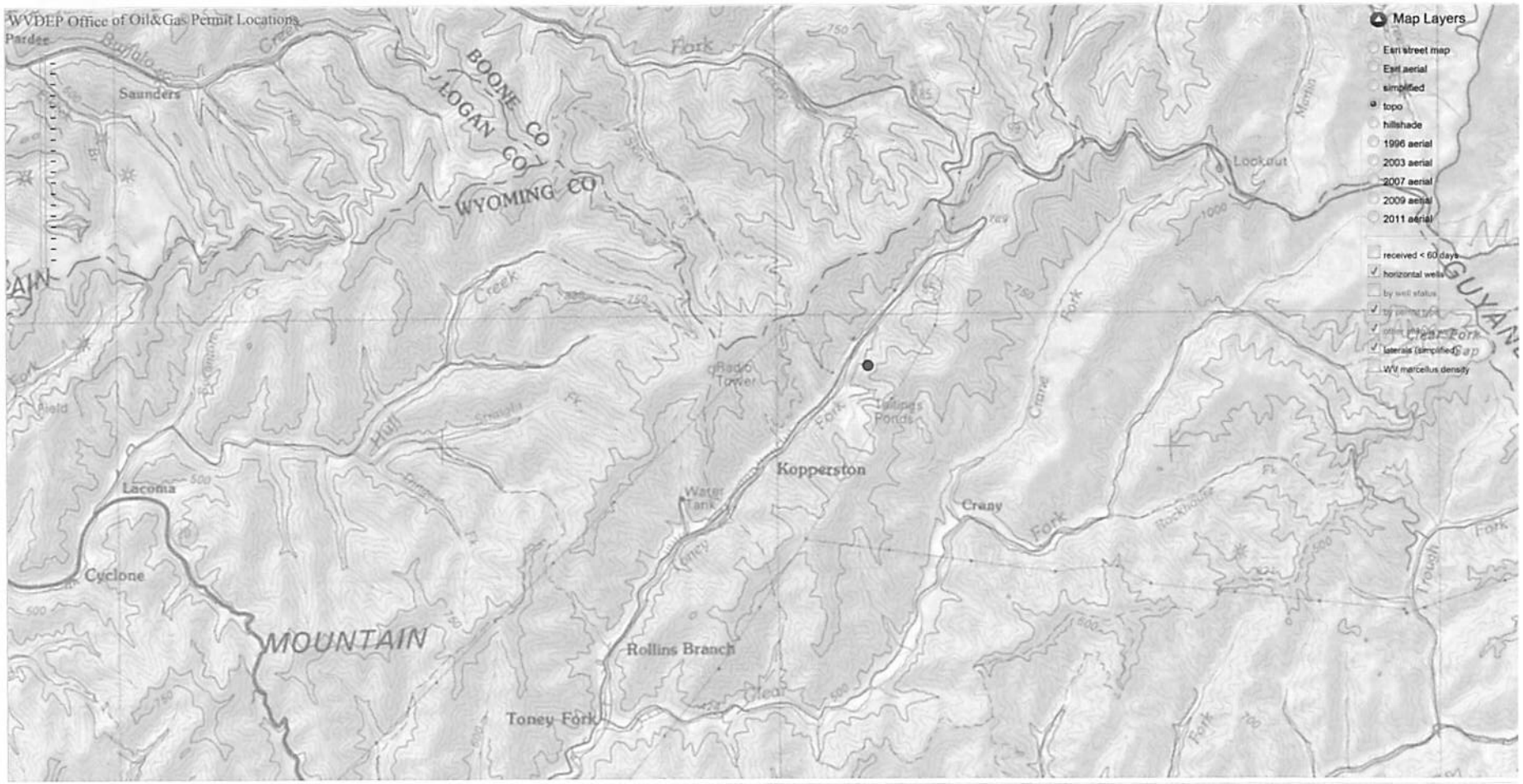
Field Reviewed? (✓) Yes ( ) No



Attribute Search | Results | Legend | Zoom to Location | About

API	Permit Type	Received	Issued	Complete	Operator	Formation	Well Status	Well Type	Well Use	Farm Name	Well No.	Lon	Lat
109-01937	Coalbed Methane	2000-06-22	2000-07-12	2000-08-	[illegible]N VIRGINIA OIL AND GAS CORPORA	Not Available	Abandoned Well	Coal Bed Methane Well	Production	POCAHONTAS LAND CORP.	LC-58CR	-81.551369	37.760863

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WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4710901937 WELL NO.: LC-58CR

FARM NAME: Poca Land Corp.

RESPONSIBLE PARTY NAME: Barry K. Lay

COUNTY: Wyoming DISTRICT: Oceana

QUADRANGLE: Pilot Knob (7.5) Bald Knob (15)

SURFACE OWNER: Pocahontas Land Corporation

ROYALTY OWNER: Penn Virginia Oil and Gas

UTM GPS NORTHING: 4179427.9

UTM GPS EASTING: 451434.9 GPS ELEVATION: 2362

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

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

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

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Office of Oil & Gas
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Barry K Lay — Signature
Sr. VP & GM — Title
8/11/14 — Date

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ENERVEST

EnerVest Operating, L.L.C.
Eastern Division

1064 Old Route 33, Weston, WV 26452-7722
Phone (304) 517-1102 Fax (304) 517-1107

VIA CERTIFIED MAIL

February 26, 2015

Pocahontas Land Corporation
PO Box 1517
Bluefield, WV 24701-1517

Re: Plugging Permit LC-58CR
API# 47-109-01937C
Oceana District, Wyoming County, WV

Dear Surface and Coal Owner:

Pursuant to Chapter 22 of the West Virginia Code, enclosed please find copies of the following documents for the proposed plugging of the subject well:

- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon
- Surface Owner Waiver (2 copies)
- Coal Owner Waiver (2 copies)

This application is being filed by EnerVest with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of this well, please sign the Voluntary Statement of No Objection on the waivers and return one copy of each to our office in the enclosed envelope.

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Environmental Protection

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the said Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purpose of filing comments and obtaining additional information is:

Permit Administrator
West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

10901937 P

CBM

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such surface tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,
EnerVest Operating, L.L.C.

Jerry L. Jackson
Senior District Landman

Enclosures

cc: File

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ENERVEST

EnerVest Operating, L.L.C.
Eastern Division

1064 Old Route 33, Weston, WV 26452-7722
Phone (304) 517-1102 Fax (304) 517-1107

VIA CERTIFIED MAIL

February 26, 2015

Eastern Associated Coal Corp.
800 Laidley Tower #1233
Charleston, WV 24324-2145

Re: Plugging Permit LC-58CR
API# 47-109-01937C
Oceana District, Wyoming County, WV

Dear Coal Lessee:

Pursuant to Chapter 22 of the West Virginia Code, enclosed please find copies of the following documents for the proposed plugging of the subject well:

- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon
- Coal Owner/Lessee Waiver (2 copies)

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Office of Oil and Gas
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WV Department of
Environmental Protection

This application is being filed by EnerVest with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of this well, please sign the Voluntary Statement of No Objection on the Coal Owner/Lessee Waiver and return one copy to our office in the enclosed envelope.

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the said Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purpose of filing comments and obtaining additional information is:

Permit Administrator
West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

10901937P CBM

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such surface tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,
EnerVest Operating, L.L.C.

Jerry L. Jackson
Senior District Landman

Enclosures

cc: File

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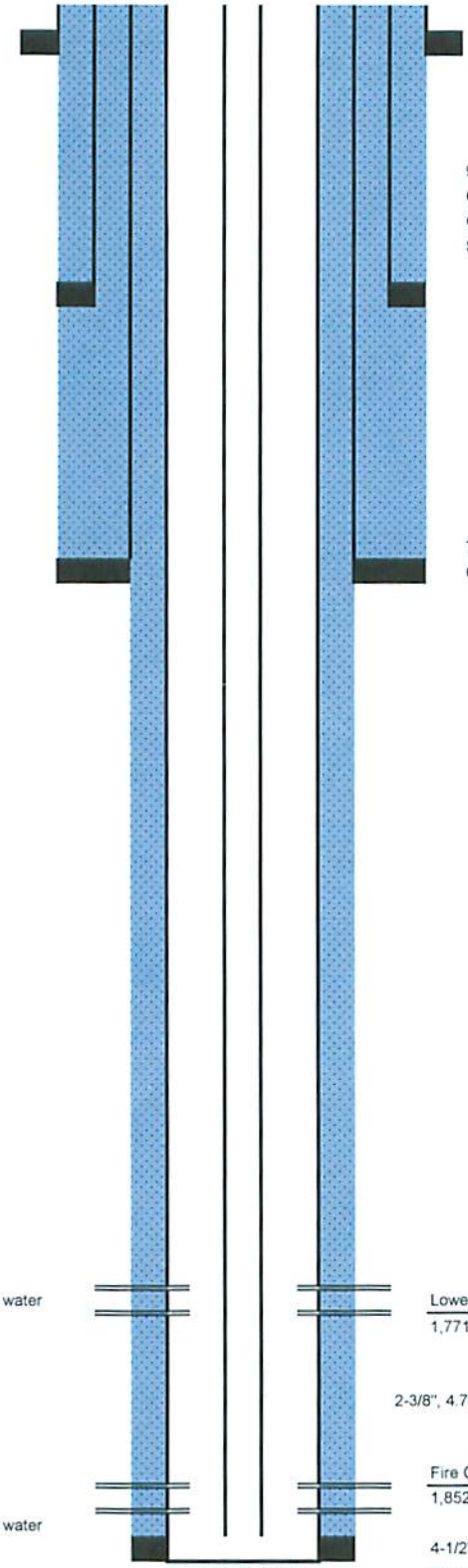
Original: 04/19/13

LC-58CR
47-109-01937C
Wyoming County, WVa
Current Completion

Elevations: 2362' GL
2372' RKB

VOID



13-3/8" Conductor @ 28' KB

9-5/8", 26#, LS, STC @ 155' KB
Cement with 57 Sx
Grout to surface with additional 23 Sx
Sqeeze shoe with 210 Sx

7", 17# LS, STC @ 940' KB
Cement to Surface with 190 Sx

Fracture Lower Beckley Coal
with 14,600# 20/40 sand & 368 bbl gelled water

Lower Beckley Coal
1,771' to 1,774' (12 holes)

2-3/8", 4.70# tubing with SN on bottom @ 1,910'

Fire Creek Sand
1,852' to 1862' (20 holes)

Fracture Fire Creek Sand
with 26,000# 20/40 sand & 447 bbl gelled water

4-1/2" 9.5# M65, STC @ 1,968' KB
Cement to surface with 240 Sx

TD @ 2,001' KB
PBTD @ 1,962'

TAC

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