Office of Oil and Gas
1356 Hansford Street
Charleston, WV 25301
Telephone: 304-558-6075
Fax: 304-558-6047

West Virginia Department of Environmental Protection

Bob Wise
Governor

Stephanie R. Timmermeyer
Cabinet Secretary

May 19, 2004

Penn Virginia Oil & Gas Corp.
Mrs. Kita Gibson
2550 E Stone Dr. Suite 110
Kingsport,TN 37660

Dear Mrs. Gibson;

Enclosed you will find Underground Injection Control Permit Number UIC2D1091433, dated the Seventeenth day of May 2004. The permit consists of pages one (1) through four (4). Be advised that the duration of the permit is for a period of five (5) years from the effective date 05/17/2004 until 04/17/2009.

Also be advised that all conditions established by UIC Permit Number UIC2D1091433, either expressly or incorporated by reference, must be strictly adhered to. All monitoring forms shall be submitted to the Office of Oil and Gas in a manner and at the frequency prescribed. The monitoring forms will be compared with the scope of permitted activity to verify compliance.

Please review the permit carefully and be aware of all permit conditions. Compliance of all permit conditions will be strictly enforced.

The operation of this injection well facility in general, including maintenance of all related surface equipment, shall be conducted so as to preclude any unlawful discharge of waste materials into the surface or ground waters of this state.

Sincerely,

For Mike by Jamie Stevens

Michael W. Lewis
UIC Program Director
Office of Oil and Gas

Enclosures as stated

API WELL NO. 109-01433
OPERATOR'S WELL NO.LOUP CREEK 19
UIC PERMIT NO. UIC2D1091433

UNDERGROUND INJECTION CONTROL PERMITS
FOR
DEPARTMENT OF ENVIRONMENTAL PROTECTION,
OFFICE OF OIL AND GAS
FOR
CLASS II INJECTION WELLS
BRINE DISPOSAL

This document consists of the Underground Injection Control Permit required by the Department of Environmental Protection, Office of Oil and Gas.

The Underground Injection Control Permit No. UIC2D1091433 consists of the terms of Form WW-3 (see Attachment A), Attachment B and of the following terms and conditions:

1. The requirements of Section 13.06, and 13.12, Series IX of the West Virginia Administrative Regulations of the State Environmental Quality Board are hereby incorporated by reference as terms and conditions.

2. All reports required by this permit shall be submitted to the Office of Oil and Gas with the exception stated in paragraph 3 below. The frequency of reporting shall be that required by the Chief of the Office of Oil and Gas.

3. The following shall be reported immediately to the Chief of the Office of Water Resources in accordance with Section 13.06(d) and Section 13.12(1)(6), Series IX, of the West Virginia Administrative Regulations of the State Environmental Quality Board.

   (a) Any monitoring or other information, which indicates that any contaminant may cause an endangerment to an underground source of drinking water;

(b) Any non-compliance with a permit condition or any malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water; and

(c) Any non-compliance, which may endanger health or environment.

4. The applicant must satisfy the requirement of the Office of Oil and Gas regarding any corrective action needed on all known wells penetrating the injection zone within the area of review. This must be done in a, manner, which satisfies the requirements of Section 13.07(b), Series IX, of the West Virginia Administrative Regulations of the State Environmental Quality Board.

5. This permit is for authorization of injection of only fluids as defined for Class II wells in Series IX Regulations Section 4.02 of Chapter 22-11. The fluids to be injected shall only be from those sources listed in the permit application. Additional sources of fluids may be approved upon written request by the permittee.

6. This permit approves the WEIR formation between 3540'. and 3570'.

7. The maximum wellhead injection pressure established is 479 PSI .

8. Any well within a quarter mile radius of 47-109-01433, which does not have cemented production casing shall be plugged immediately upon becoming inactive.

9. The permittee shall maintain an inventory of sources of all fluids transported to the injection facility.

10. The permittee shall provide for security at the injection facility to guard against illegal or unauthorized dumping and injection at the injection facility.

11. The permittee shall sample and analyze injection fluids upon request by the Office of Oil and Gas at a frequency not to exceed twice a year. Analyses shall cover all parameters listed on Attachment B of this permit. Results of all analyses shall be submitted to the Office of Oil and Gas. Permittee shall submit a letter of explanation for any parameter, which exceeds the ranges on Attachment B.

12. The permittee shall monitor daily and report monthly monitoring results. These reports shall be submitted to the Office of Oil and Gas, Department of Environmental Protection, on the appropriate forms (Regulation 35 CSR4 -7.5).

13. Authorization to inject is contingent upon submission and approval of the Office of Oil and Gas Form WR-37 for each well. Construction modifications from the proposed work plan (O&G Form WW-3) and mechanical integrity will be evaluated at this time. Operational conditions will be finalized at this time. Upon approval of Form WR-37, conditions established on this form are incorporated by reference as conditions of this permit. FORM WR-37 SHALL BE SUBMITTED WITHIN 30 DAYS OF THE EFFECTIVE DATE OF THE UIC PERMIT.

14. A well head pressure gauge shall be installed and maintained on the injection tubing to facilitate inspection and ensure compliance of maximum injection pressures as approved on Oil and Gas Form WR-37. A daily reading of the injection pressure shall be taken and reported on Form WR-40.

15. The permittee shall monitor the 2 3/8" X 4 1/2" and 4 1/2" X 8 5/8" casing annuli with pressure sensitive devices or with such a method as approved or required by the Office of Oil and Gas to allow early detection of any leaks from the injection zone or casing. The results of such monitoring shall be reported monthly on Form WR-40.

16. The area of review is designated as a quarter mile radius around the injection project.

17. The permittee shall fulfill the requirements of the Office of Oil and Gas regarding maintaining financial responsibility and resources to close, plug, and abandon permitted wells.

18. The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit; with the information submitted with the Permit Application No. UIC2D1091433; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the State Environmental Quality Board.

19. Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with the Permit Application No. UIC2D1091433; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and for the invocation of all the enforcement procedures set forth in Article 11, Chapter 22, of the Code of West Virginia.

20. This permit is issued in accordance with the provisions of Article 11, Chapter 22, of the Code of West Virginia and is transferable under the terms of Section 7 of said article.

21. The operation of this injection well facility in general, including maintenance of all related surface equipment, shall be conducted so as to preclude any unlawful discharge of waste materials into the surface or ground waters of this State.

22. The permittee must satisfy the requirement of the Office of Oil and Gas for plugging and abandonment of permitted injection wells in such a manner as to ensure that no fluid movement occurs either from the injection zone into an underground source of drinking water or from one underground source of drinking water to another (as required by Section 13.07(f) of the West Virginia Administrative Regulations of the State Environmental Quality Board, Series IX.

Date May 17, 2004

Stephanie R. Timmermeyer
Secretary
Department of Environmental Protection
BY: Michael W. Sours

Title: UIC Program Director

State of West Virginia, Wyoming County, to-wit:

I, Sandra G. Hurley, Publisher of Pineville Independent Herald, a paper published in the County aforesaid, do affirm that the notice hereto attached was published in said paper for 1 successive weeks, the first publication thereof being on the 10th day of March, 2004, and the subsequent publication on the _____, day of _____, 2004, the _____ day of _____, 2004, the _____ day of _____, 2004, the _____ day of _____, 2004, and the _____ day of _____, 2004.

Sandra G. Hurley

2004

April 10th

State of West Virginia, Wyoming County, to-wit:

_____ being duly sworn, says that she posted a copy of the annexed _____ at the front door of the Court House of said County, on the _____ day of _____, 2004.

Taken, subscribed and sworn to before me, this 10th day of March 2004. Printer's fee $35.53

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
PAULA MICKEL
WILLIAMSON DAILY NEWS
P. O. BOX 1660
WILLIAMSON, W.V. 25661
My commission expires November 19, 2011

Paula Mickel
NOTARY PUBLIC

My commission expires November 19, 2011

PUBLIC NOTICE
APPLICATION FOR STATE
UNDERGROUND INJECTION
CONTROL PERMIT

PUBLIC NOTICE NO. UIC-1-2004
PUBLIC NOTICE DATE March 2004
The following has applied for a State Underground Injection Control (UIC) Permit for this facility or activity:
Penn Virginia Oil & Gas
Application No. UIC2D1091433
Watershed Location Grane Fork
2550 E. Stone Dr. Suite 110
Kingsport, TN 37660
Approximate Latitude: 5270'S of 37°47'30"
Approximate Longitude: 3260'W of 81°30'00"
Activity:
UIC Permit for the injection of produced fluid.
Business Conducted:
On the basis of review of the application, the "Water Pollution Control Act, Chapter 20, Article 5A-5(a)", and the "West Virginia Legislative Rules", the State of West Virginia will act on the above application.
Any interested person may submit written comments on the draft permit and may request a public hearing within 30 days of the date of this public notice. Such comments or requests should be addressed to:
Jamie Stevens
Office of Oil And Gas, WV DEP
1356 Hansford Street
Charleston, West Virginia 25301
Comments received within this period will be considered prior to acting on the permit application. Correspondence should include the name, address and telephone number of the respondent and a concise statement of the nature of the issues of concernment. A public hearing may be held if the Director considers significant, the degree of interest relevant to the draft permit. You may contact the person identified above at 304-558-8076 to obtain further information.
The application, draft permit and any required fact sheet on file can be inspected, by appointment, or copies obtained, at a nominal cost, at the Department of Environmental Protection, Office of Oil and Gas, 1356 Hansford Street, Charleston, West Virginia from 9:00 a.m. to 4:30 p.m. on business days.

ANALABS, INC.

(304) 255-4821 • FAX (304) 255-2410
196 Dayton Street
P. O. Box 1235
Crab Orchard, WV 25827
E-mail: analabs@analabsinc.com

109-01433

- CERTIFICATE OF ANALYSIS -

Penn Virginia Oil & Gas Corporation

P.O. Box 387
Duffield, VA 24244-0387

Attn: Mike Mooney
FAX: (423) 723-0230
Phone (423) 723-0240
Report Date: *04-Aug-03*

Disposal Well

Our Lab#: 03-11419-002
Your Sample ID: Well #107
Sample Type: Grab
Matrix: Water
Collection Date: 7/23/2003 **Time:** 8:00 AM **By:** HJ
Received Date: 7/24/2003 **Time:** 4:00 PM

Exhibit 3

Test		Result	Units	Method	MQL	Analysis Date/Time/By
Aluminum, Total		0.38	mg/L	202.1	0.10	7/30/2003 16:32 JS
Alkalinity		33.6	mg/L	310.1	5.00	7/29/2003 10:37 KC
Bicarbonate Alkalinity		33.6	mg/L	SM4500	5.00	7/29/2003 10:50 KC
Carbonate Alkalinity	<	5.00	mg/L	SM4500	5.00	7/29/2003 10:50 KC
Phenolphthalein Alkalinity	<	5.00	mg/L	SM4500	5.00	7/29/2003 10:50 KC
Barium, Total		252	mg/L	208.1	3.05	8/1/2003 10:58 JS
Calcium, Total		7080	mg/L	215.1	125	7/26/2003 13:09 JS
Chloride		49900	mg/L	325.2	1.00	7/28/2003 11:34 KC
Iron, Total		251	mg/L	236.1	3.03	7/30/2003 13:53 JS
Potassium, Total		102	mg/L	258.1	2.55	8/1/2003 15:17 JS
Magnesium, Total		1140	mg/L	242.1	75.0	7/26/2003 14:04 JS
Manganese, Total		4.80	mg/L	243.1	0.05	7/30/2003 13:53 JS
Sodium, Total		23100	mg/L	273.1	825	8/2/2003 12:15 JS
pH		4.72	S.U.	150.1		7/29/2003 9:16 KC
Sulfate		97.2	mg/L	375.2	5.00	7/29/2003 14:05 KC
Specific Conductance		174000	umhos	120.1	2.00	7/28/2003 13:30 AH
Surfactants	<	1.00	mg/L	425.1	1.00	7/25/2003 7:30 KC
Total Dissolved Solids		123000	mg/L	160.1	4.00	7/28/2003 13:30 AH
Total Suspended Solids		750	mg/L	160.2	6.00	7/28/2003 13:30 AH

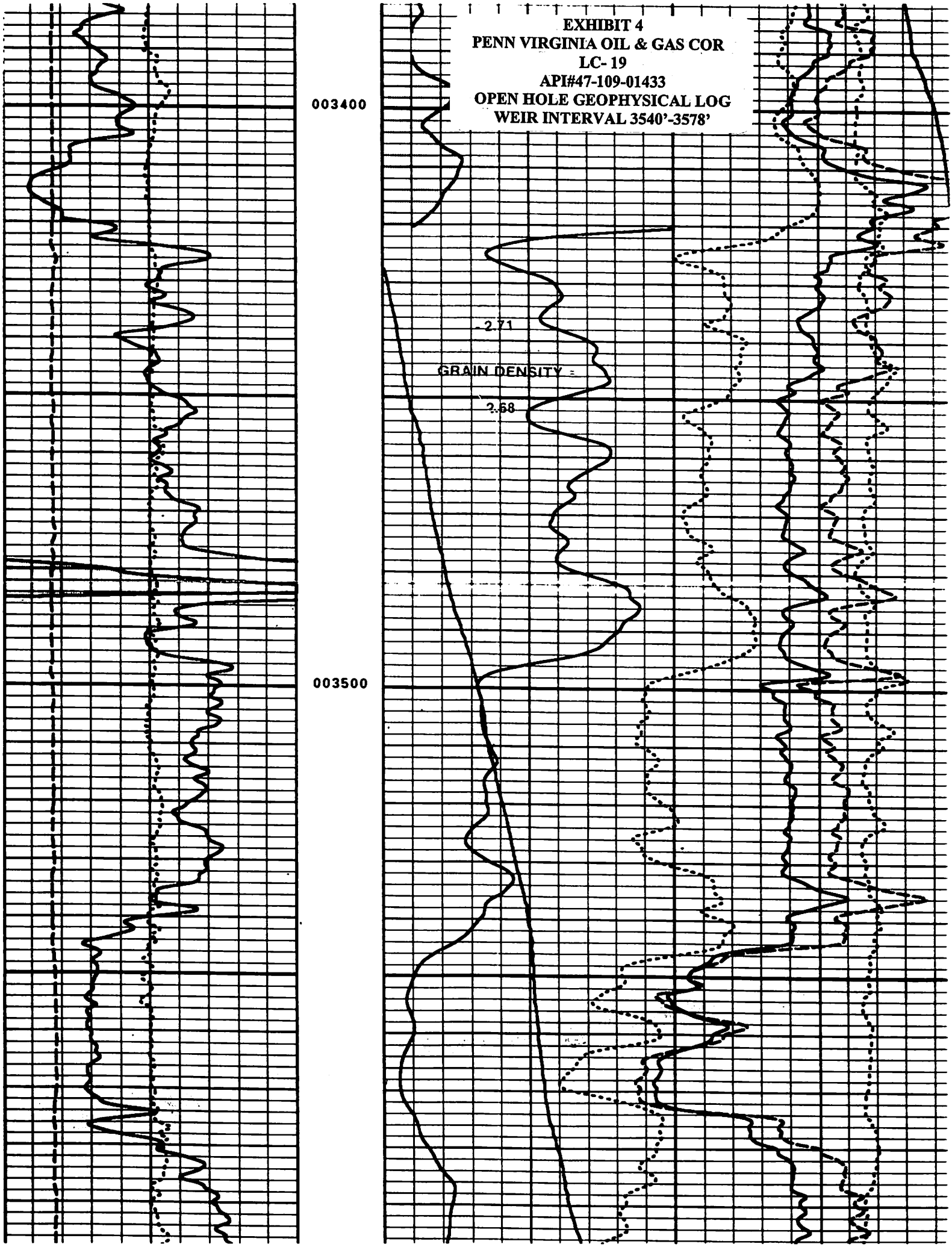
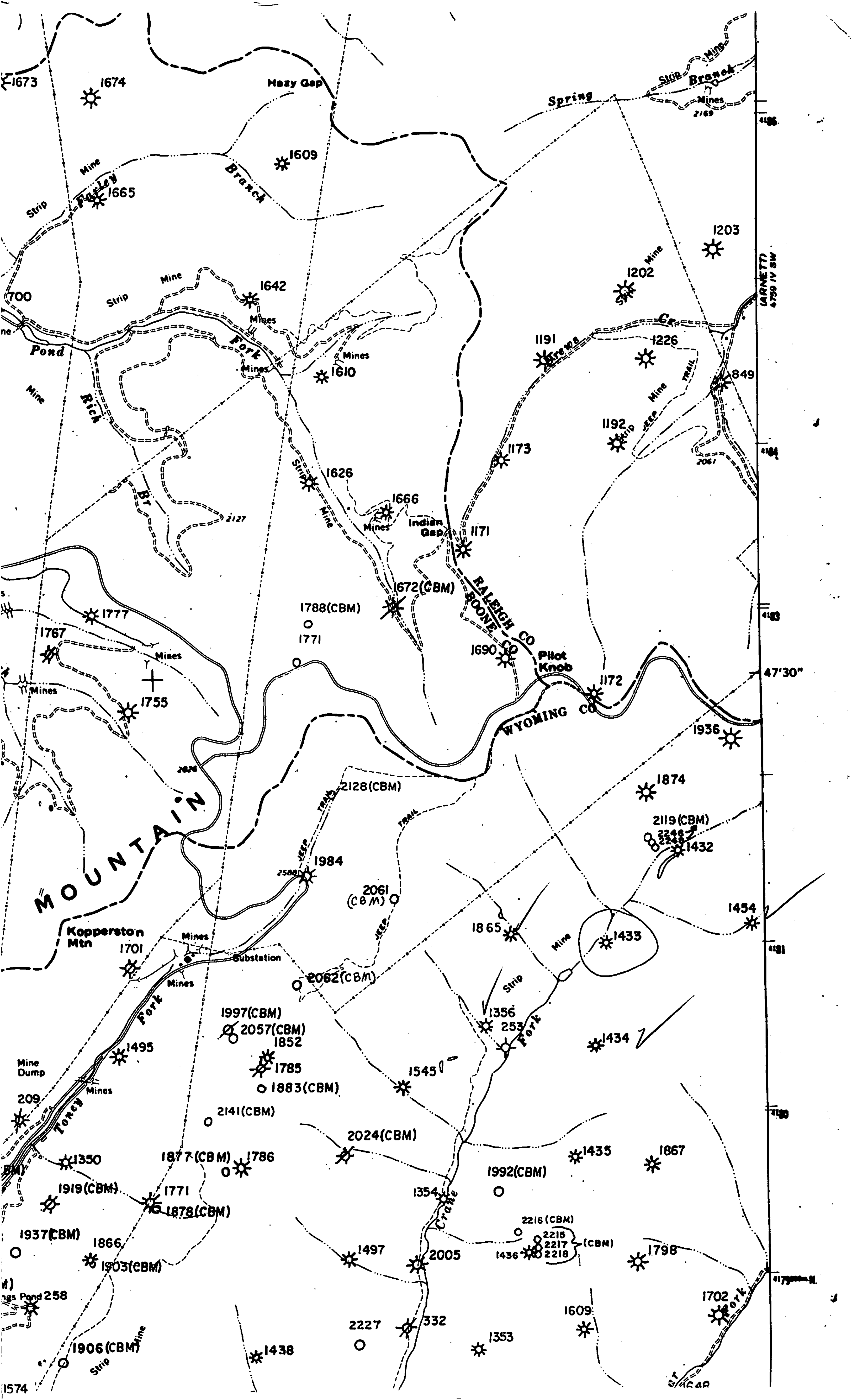


EXHIBIT 4
PENN VIRGINIA OIL & GAS COR
LC- 19
API#47-109-01433
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3540'-3578'
003400
2.71
GRAIN DENSITY =
2.68
003500



1673
1674
Hazy Gap
Spring
Strip
Mine
Branch
Mines
2169
1609
Farley
1665
Strip
Mine
Branch
1203
1202
Mine
1642
Mine
Strip
Mines
700
Pond
Fork
Mines
Mines
1610
Rich
Mine
Br
2127
1626
Strip
Mine
1666
Mines
Indian Gap
1171
1191
Crews
Cr
1226
849
Mine
Jeep
Trail
1192
Strip
1173
2061
(ARNETT)
4759 IV SW
1672(CBM)
1788(CBM)
1771
RALEIGH CO
BOONE CO
1690
Pilot Knob
1172
WYOMING CO
47'30"
1777
1767
Mines
Mines
1755
1936
1874
2626
MOUNTAIN
2128(CBM)
Jeep
Trail
Trail
2119(CBM)
2246
2248
1432
1984
2588
2061
(CBM)
Jeep
1454
1865
Mine
1433
Kopperston Mtn
1701
Mines
Substation
Mines
Fork
2062(CBM)
Strip
1356
253
Fork
1997(CBM)
2057(CBM)
1852
1785
1883(CBM)
1495
1434
1545
Mine Dump
Mines
209
Toney
2141(CBM)
2024(CBM)
1350
1877(CBM)
1786
1435
1867
1992(CBM)
1919(CBM)
1771
1878(CBM)
1354
Crane
1937(CBM)
1866
1903(CBM)
2216 (CBM)
2215
2217
2218
(CBM)
1436
1497
2005
1798
258
Pond
1702
Fork
1609
2227
332
1353
1906(CBM)
1438
Strip
Mine
1574
1648

WR-35

API # 47-109-01433

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

Well Operator's Report of Well Work

Farm Name: POCAHONTAS LAND CORP. Operator Well No. LOUP CREEK # 19

LOCATION: Elevation: 2,148.00 Quadrangle: PILOT KNOB

District: Oceana County: Wyoming
Latitude: 5270 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude 3260 Feet West of 81 Deg. 30 Min. 0 Sec.

Company: UMC PETROLEUM CORPORATION
P.O. DRAWER 1738
CLARKSBURG, WV 26301-1738

Agent: GREGORY A. SHOCKLEY

Inspector: OFIE A. HELMICK
Permit Issued: 06/01/94
Well work Commenced: 08/05/94
Well Work Completed: 08/13/94
Verbal Plugging

Permission granted on: _____
Rotary X Cable____ Rig
Total Depth (feet) 4256'
Fresh Water depths (ft) 100', 660'
Salt water depths (ft) None
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 275'-278', 303'-307', 592'-596', 734-737'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
Size 16"	30'	30'	
11 3/4"	298'	298'	177
8 5/8"	1553'	1553'	476
4 1/2"		4186'	455

OPEN FLOW DATA

Producing formations Little Lime } * Gordon } Pay zone depth (ft) 2986' - 2990' 4114' - 4136'
Gas: Initial open flow_____MCF/d Oil: Initial open Flow_____Bbl/d
Final open flow * 420 MCF/d Final open flow_____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure * 630 psig (surface pressure) after 24 Hours
* Co-mingled

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.

For: UMC Petroleum Corporation
By: _____ DISTRICT MANAGER
Date: 08/24/94

WYO 1433

Perforated Gordon at 4114' - 4136' with 16 shots. Broke down with 500 gals. 15% HCL. Fraced with 75 quality foam and 51,600# 20/40 sand. Break = 1700#, AIR = 30 BPM foam, ATP = 1980#, ISIP = 1750#.

Perforated Little Lime at 2986' - 2990' with 8 shots. Broke down with 500 gals. 28% HCL and acidized with 4,500 gals. 28% HCL with 400 Scf N_2/Bbl. Break = 1900#, AIR = 8 BPM, ATP = 1750#, ISIP = Circulated with 38 Bbl. flush to go.

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas Or Water	Depth	Remarks
Fill			0	10			
Sd & Sh			10	275	Water	100'	1/4" stream
Coal			275	278			
Sd & Sh			278	303			
Coal			303	307			
Sd & Sh			307	592			
Coal			592	596			
Shale			596	600			
Sh & Sd			600	734	Water	660'	1/4" stream
Coal			734	737			
Sd & Sh			737	846			
Sand			846	955			
Sd & Sh			955	1185			
Sand			1185	1369			
Sd & Sh			1369	1700			
Sand			1700	1872			
Red Rock			1872	1877			
Sd & Sh			1877	1955			
Princeton Sand			1955	2000			
Sd & Sh			2000	2241			
Avis Lime			2241	2276			
Shale			2276	2540			
Sd & Sh			2540	2605			
Shale			2605	2926			
Little Lime			2926	3010			
Shale			3010	3072			
Big Lime			3072	3350			
Lime			3350	3420			
Injun			3420	3464			
Sh & Sd			3464	3526			
Weir			3526	3543			
Shale			3543	3950			
Berea			3950	3970			
Shale			3970	4114			
Gordon			4114	4136			
Shale			4136	4256	TD		

78161

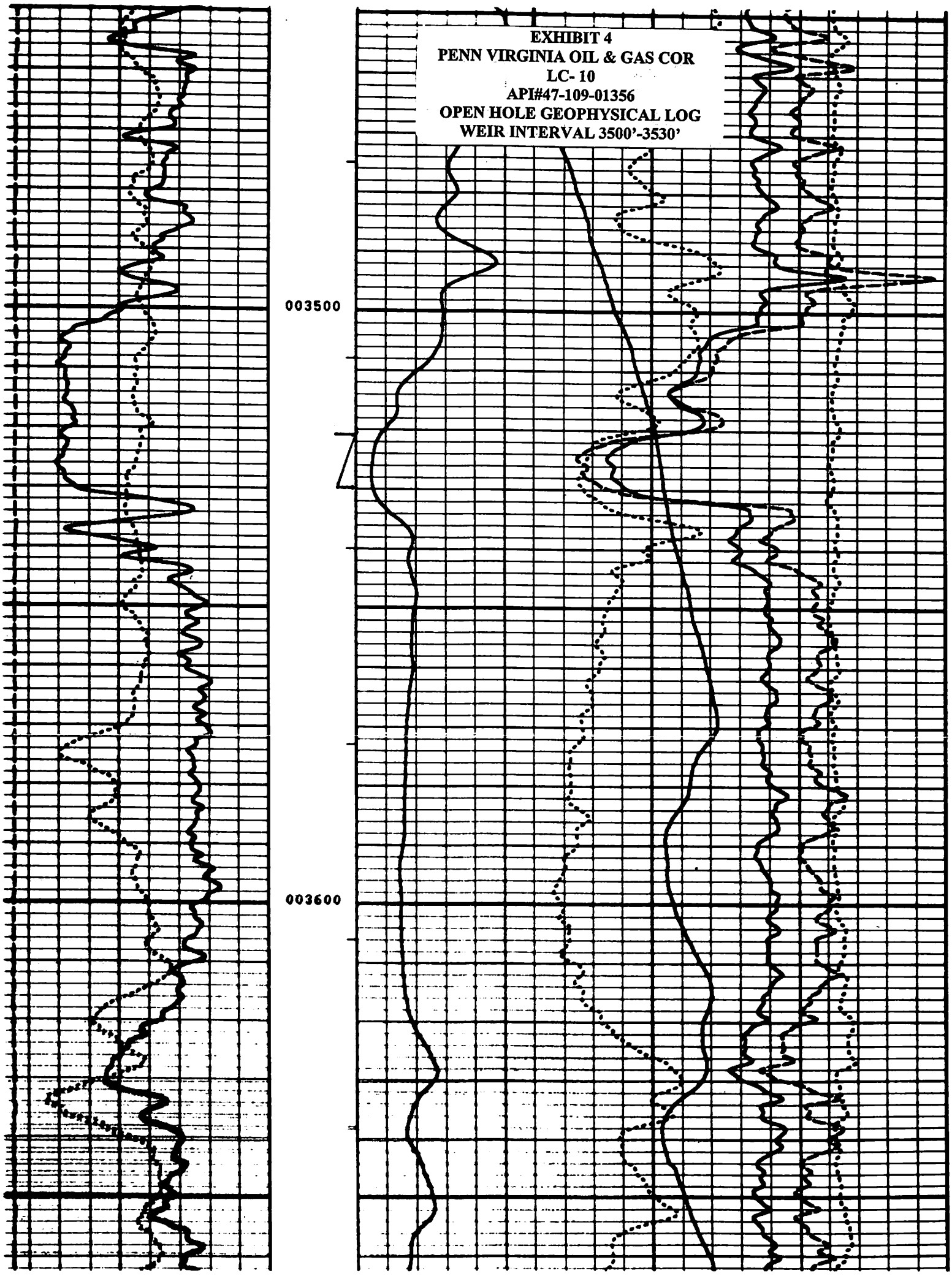
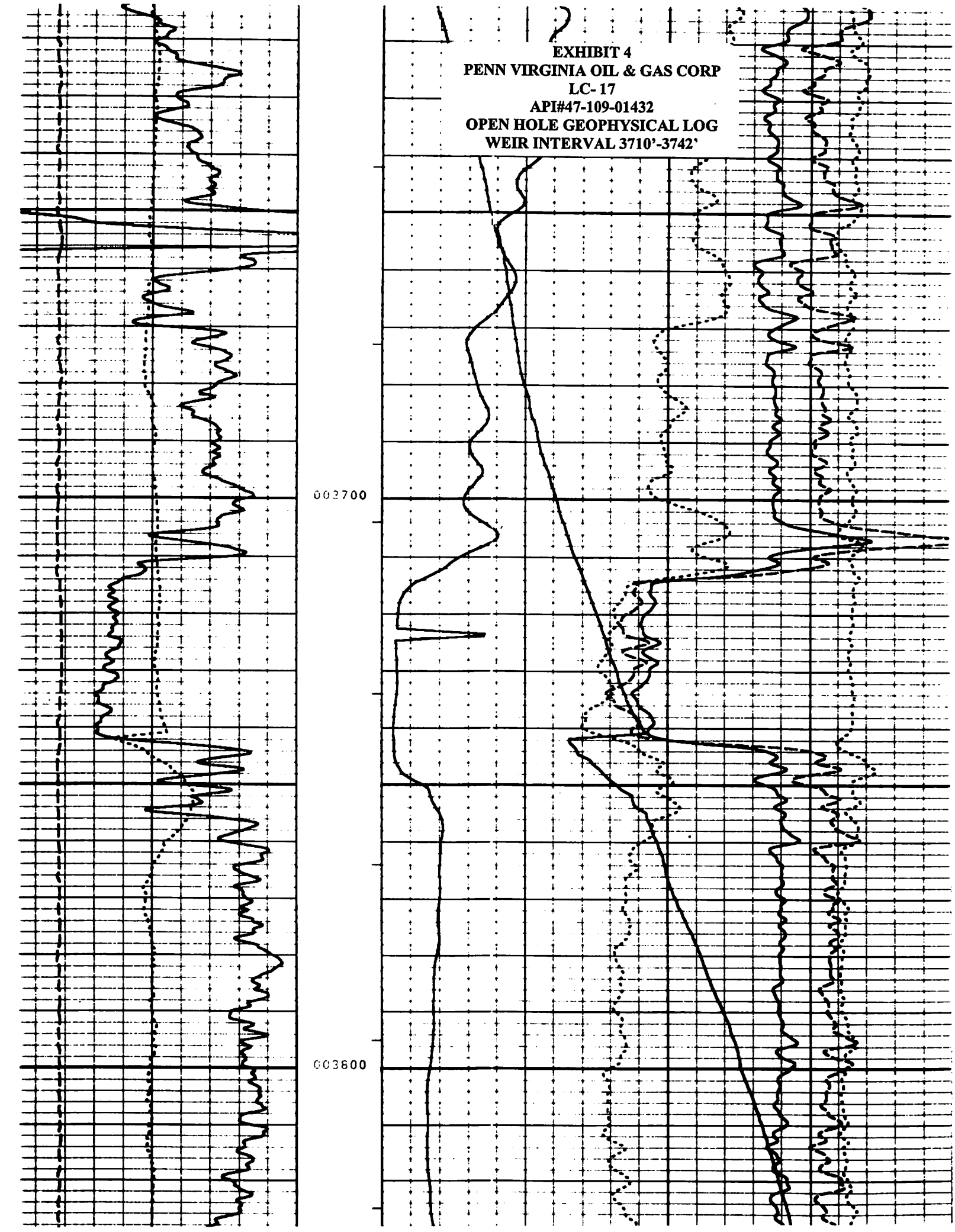


EXHIBIT 4
PENN VIRGINIA OIL & GAS COR
LC- 10
API#47-109-01356
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3500'-3530'
003500
003600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PENN VIRGINIA OIL & GAS CORP
LC- 17
API#47-109-01432
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3710'-3742'
002700
003800

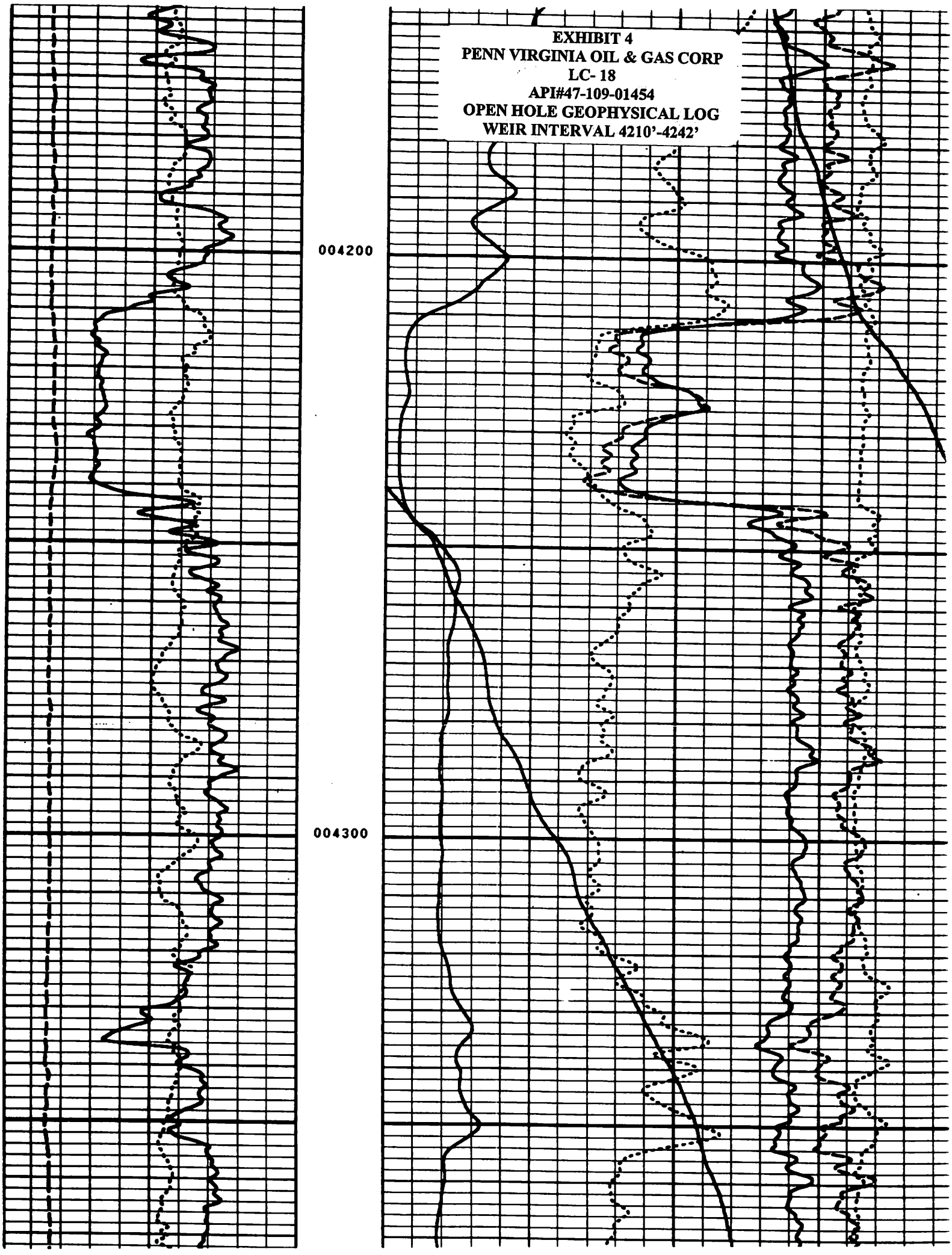


EXHIBIT 4
PENN VIRGINIA OIL & GAS CORP
LC- 18
API#47-109-01454
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 4210'-4242'
004200
004300

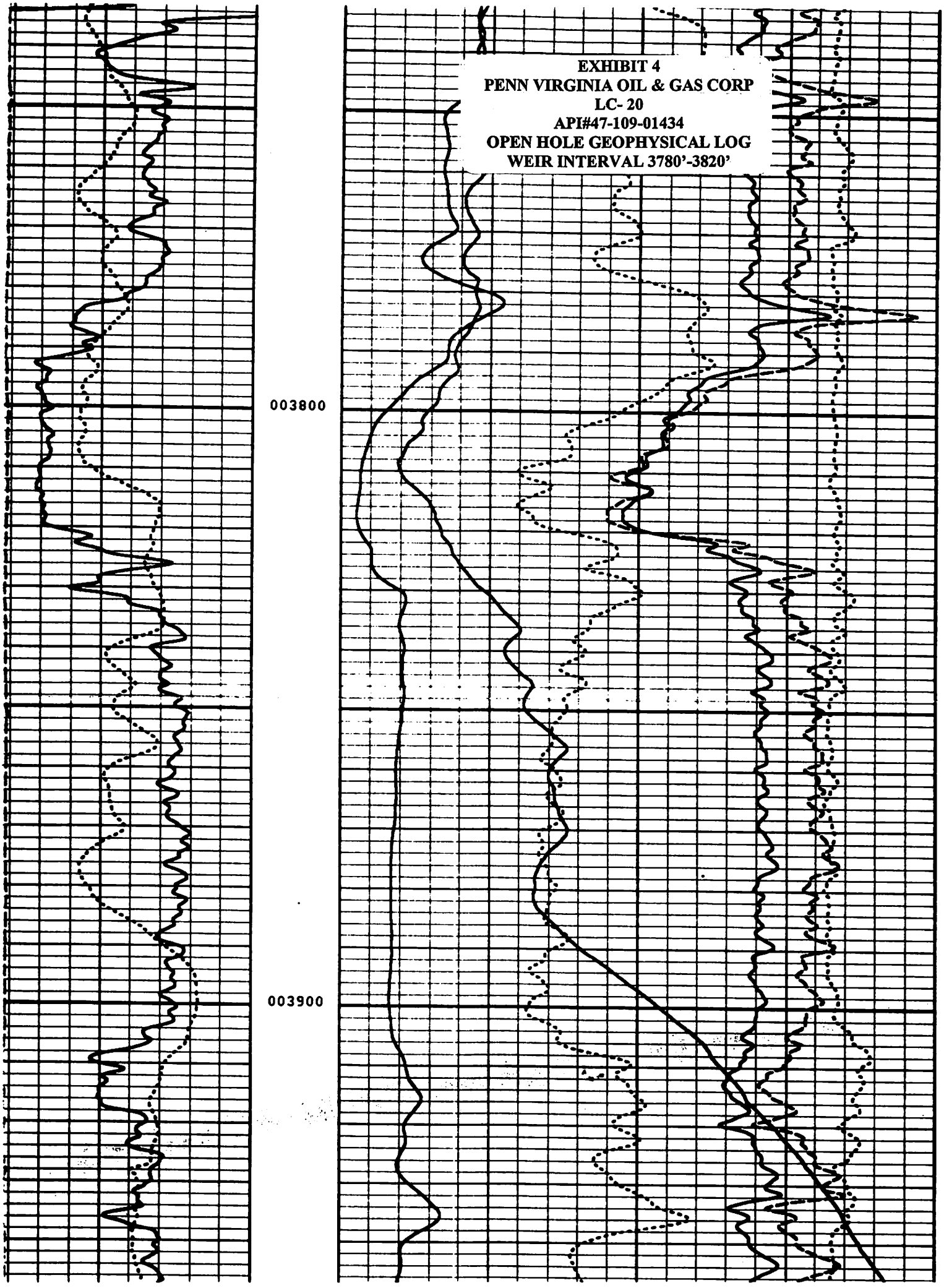
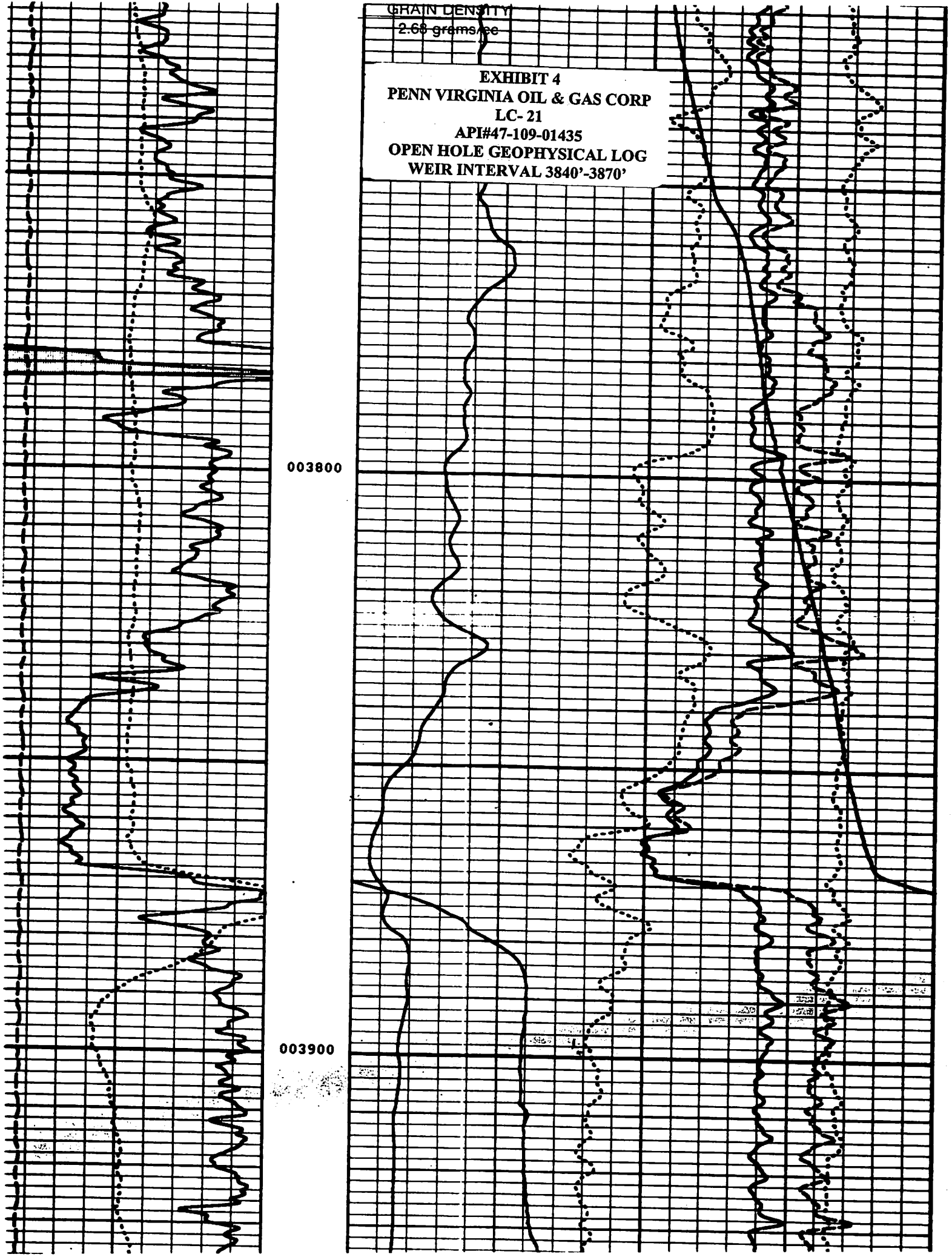


EXHIBIT 4
PENN VIRGINIA OIL & GAS CORP
LC- 20
API#47-109-01434
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3780'-3820'
003800
003900


GRAIN DENSITY
2.68 grams/cc
EXHIBIT 4
PENN VIRGINIA OIL & GAS CORP
LC- 21
API#47-109-01435
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3840'-3870'
003800
003900

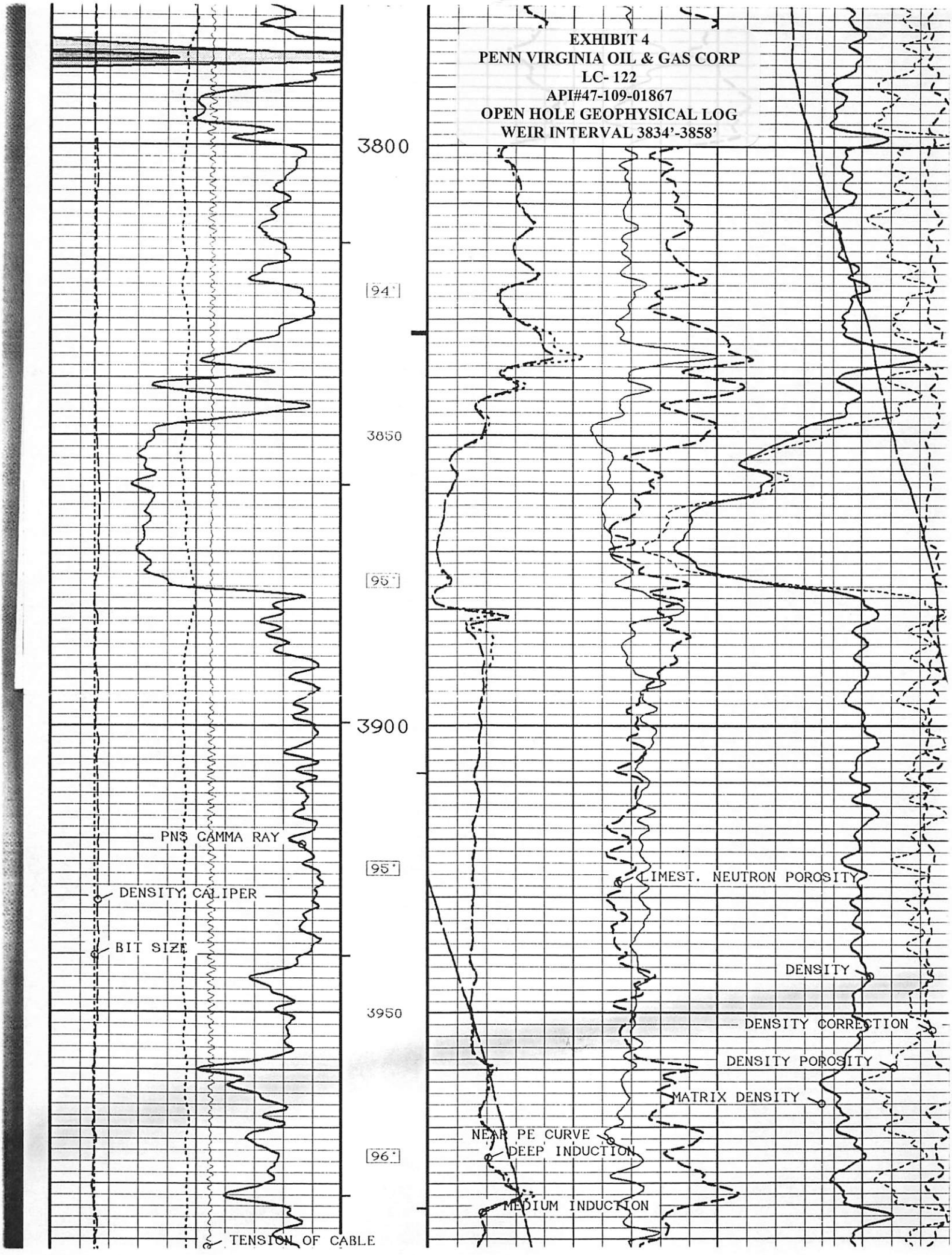
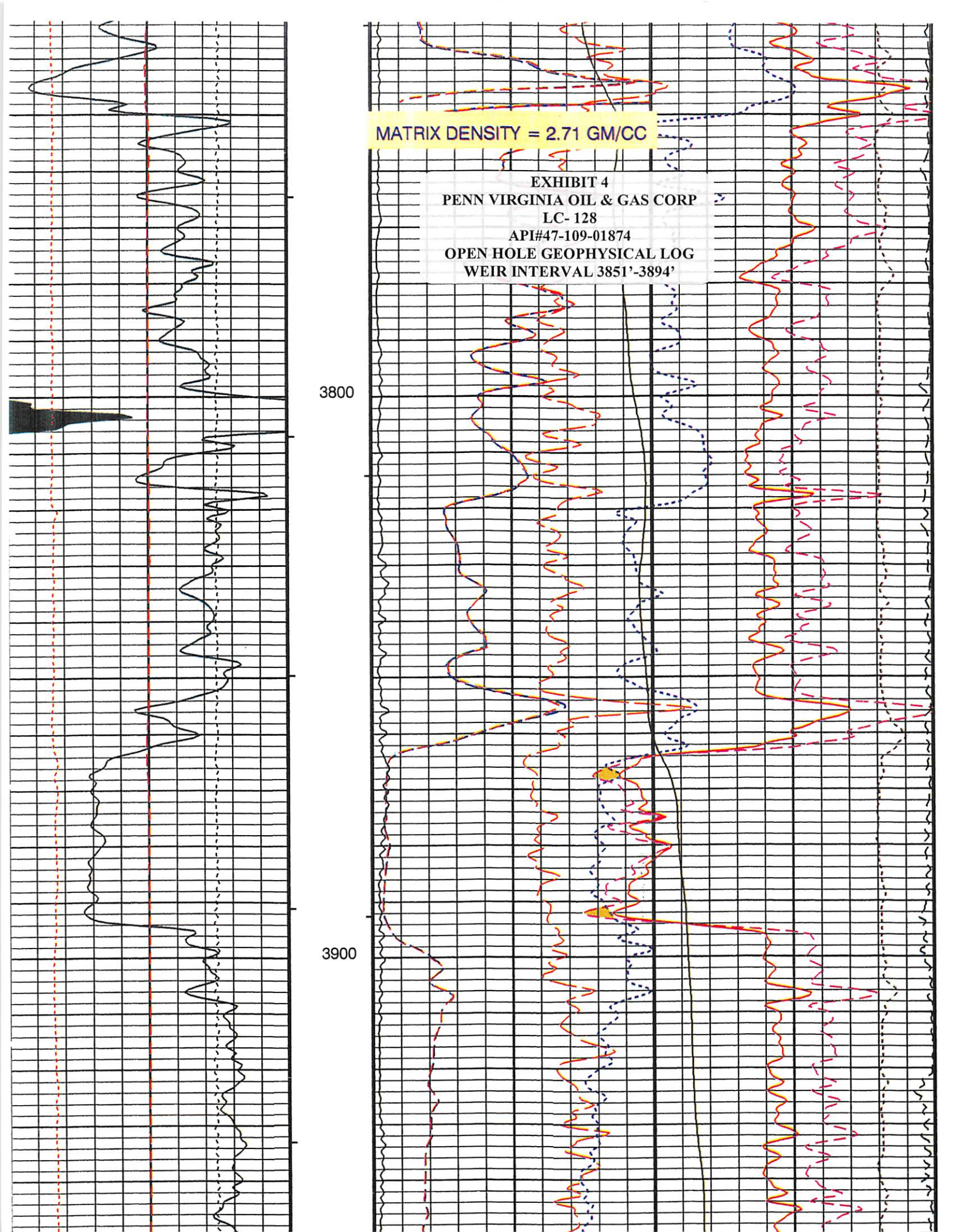


EXHIBIT 4
PENN VIRGINIA OIL & GAS CORP
LC- 122
API#47-109-01867
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3834'-3858'
3800
94'
3850
95'
3900
95'
3950
96'
PNS CAMMA RAY
DENSITY CALIPER
BIT SIZE
TENSION OF CABLE
LIMEST. NEUTRON POROSITY
DENSITY
DENSITY CORRECTION
DENSITY POROSITY
MATRIX DENSITY
NEAR PE CURVE
DEEP INDUCTION
MEDIUM INDUCTION


MATRIX DENSITY = 2.71 GM/CC
EXHIBIT 4
PENN VIRGINIA OIL & GAS CORP
LC- 128
API#47-109-01874
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3851'-3894'
3800
3900

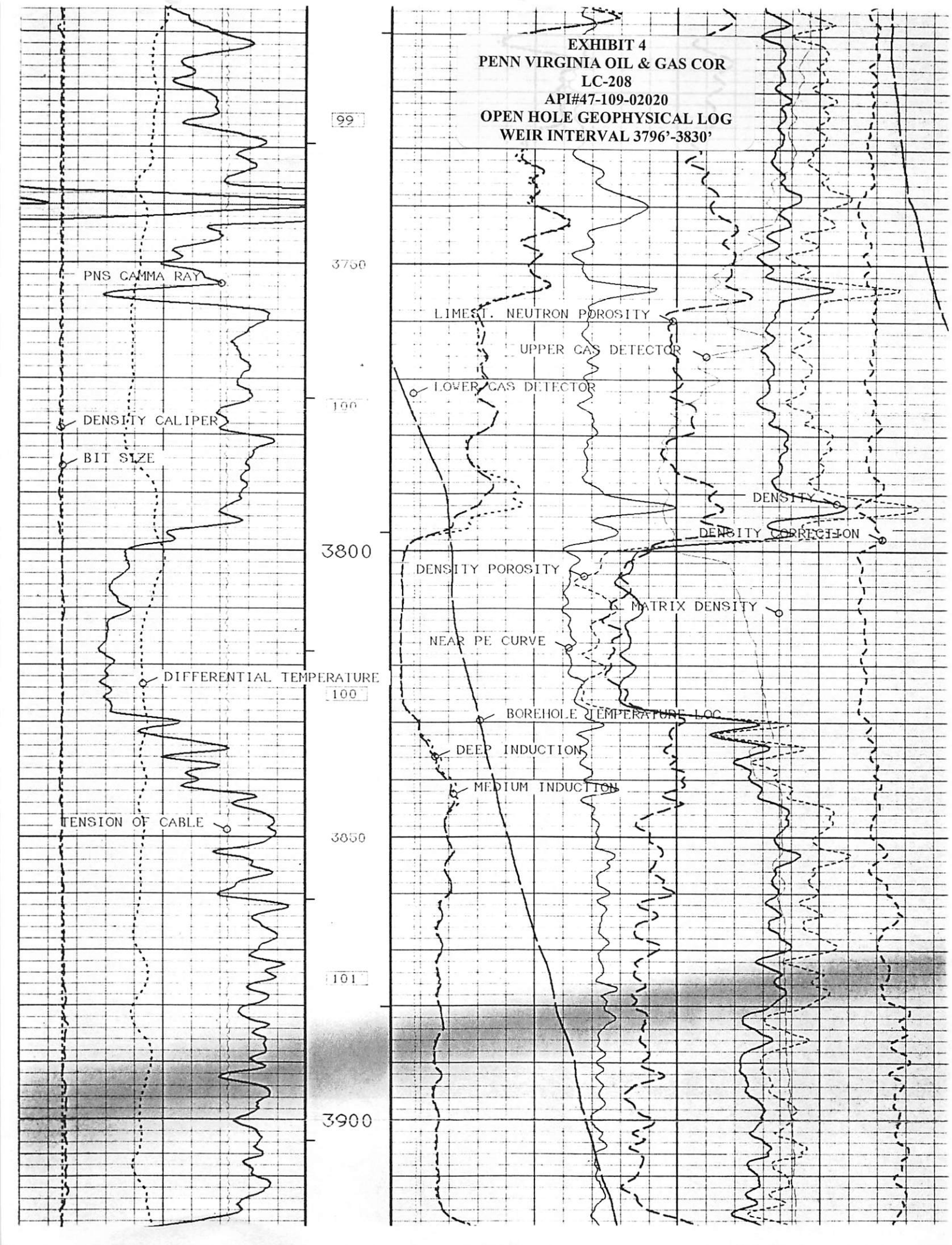


EXHIBIT 4
PENN VIRGINIA OIL & GAS COR
LC-208
API#47-109-02020
OPEN HOLE GEOPHYSICAL LOG
WEIR INTERVAL 3796'-3830'
99
3750
PNS GAMMA RAY
LIMEST. NEUTRON POROSITY
UPPER GAS DETECTOR
LOWER GAS DETECTOR
100
DENSITY CALIPER
BIT SIZE
DENSITY
DENSITY CORRECTION
3800
DENSITY POROSITY
GL MATRIX DENSITY
NEAR PE CURVE
DIFFERENTIAL TEMPERATURE
100
BOREHOLE TEMPERATURE LOG
DEEP INDUCTION
MEDIUM INDUCTION
TENSION OF CABLE
3850
101
3900

YOUNG WIRELINE SERVICES

GAMMA RAY CEMENT BOND LOG

COMPANY UMC PETROLEUM CORPORATION

WELL LOUP CREEK 19

FIELD OCEANA DISTRICT

COUNTY WYOMING STATE WV

LOCATION: QUAD.: PILOT KNOB 7.5'
W. S.: CRANE FORK BRANCH
SEC. TWP. RGE.

OTHER SERVICES: N/A
Permit No: 47-109-01433

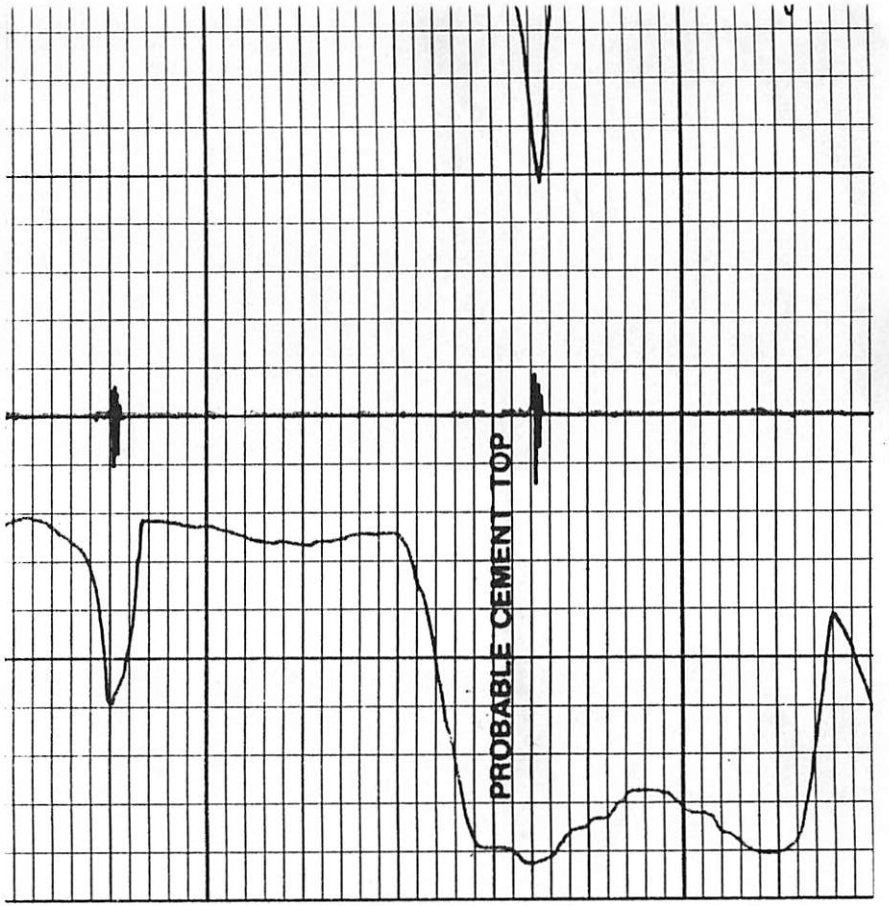
Permanent Datum: GROUND LEVEL ; Elev.: 2148'
Log Measured From TOP OF 4½, 2 Ft. Above Perm. Datum
Drilling Measured From K. B.

Elev.: K.B. 2158'
D.F. 2158'
G.L. 2148'

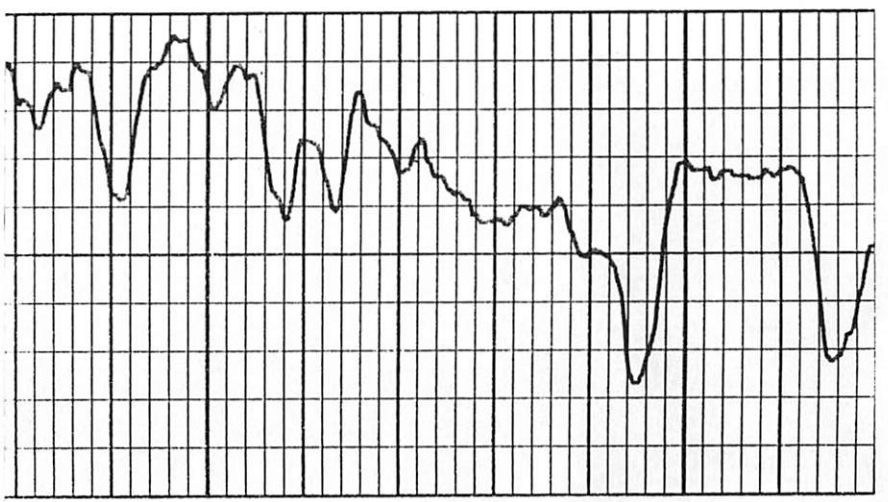
Date	08-18-94
Run No.	ONE
Type Log	GAMMA RAY/CCL/CEMENT BOND
Depth—Driller	4258'
Depth—Logger	4179'
Bottom logged interval	4178'
Top logged interval	2400'
Type fluid in hole	WATER/ACID
Salinity, PPM Cl.	N/A
Density	N/A
Level	FULL
Max rec. temp., deg. F.	N/A
Operating rig time	1½ HOURS
Recorded by	W. SHREVE
Witnessed by	MR. M. NUGENT
DISTRICT:	BUCKHANNON, WV

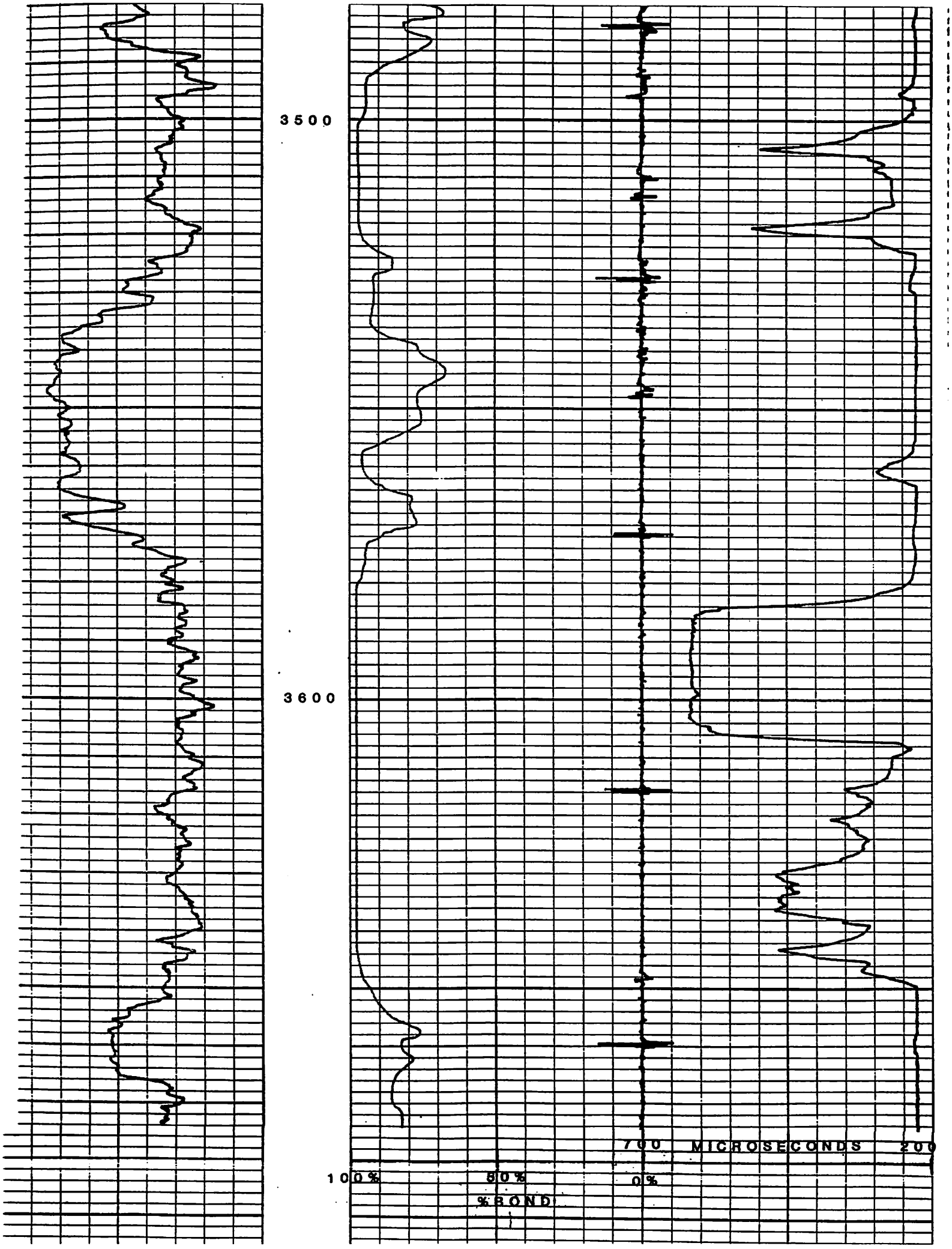
Exhibit 7

Run	Bore-Hole Record			Casing Record			
No.	Bit	From	To	Size	Wgt.	From	To
ONE	7 7/8"	1550'	4258'	8 5/8"	N/A	SURF.	1550'
				4 1/2"	N/A	SURF.	4179'



2700




3500
3600
100%
50%
0%
%BOND
700
MICROSECONDS
200

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Well #	API #	Producing Formations						
WP 10C-227	4710901657C	L. Raleigh	Beckley	Poca 5	Poca 3			
WP 12C-293	4710901659C	Sewell	Beckley	Poca 6	Poca 4	Poca 3		
LC 13C-153	4710901666C	Sewell	L. Raleigh	U. Beckley	Beckley			
LC 16C-117	4710901667C	U. Beckley	Beckley	Fire Creek	L. Fire Creek	Poca 6		
LC 19C-68	4710901668C	Beckley	Fire Creek	L. Fire Creek	Poca 6	L. Poca 6	Poca 5	
LC 22C-69R	4710901672C	Beckley	Fire Creek	L. Fire Creek	Fire Creek Sd.			
LC 25C-108	4710901669C	Beckley	Fire Creek	L. Fire Creek	Poca 6	Poca 4		
LC 27C-87R	4710901673C	Beckley	Poca 6	Poca 4	Fire Creek Sd.			
WP 2C-270	4710901652C	U. beckley	Beckley	Fire Creek	L. Fire Creek	Poca 6	Poca 4	Poca 3
LC 31C-194	4710901691C	Beckley	Fire Creek	L. Fire Creek	Poca 6			
LC 35C-27	4710902030C	Beckley	L. Fire Creek					
LC 37C-185	4710901734C	Beckley	Fire Creek	L. Fire Creek	Poca 6	Poca 4	Fire Creek Sd.	Poca 5 Sd
LC 38C	4710901742C	Beckley	L. Fire Creek	Poca 6	Poca 6	Poca 5		
LC 39C	4710901755C	Beckley	L. Fire Creek	Poca 6	Poca 6	Fire Creek Sd.		
LC 40C	4710901743C	Beckley	L. Fire Creek	Poca 6	Poca 4	Fire Creek Sd.		
LC 42C	4710901758C	Beckley	L. Fire Creek	Poca 6	Fire Creek Sd.	Poca 5 Sd		
LC43C	4710901744C	Beckley	L. Fire Creek	Poca 6				
LC 44C	4710901745C	Beckley						
LC 45C	4710901925C	Beckley	L. Fire Creek	L. Beckley Sd	Fire Creek Sd.			
LC 46C	4710901746C	Beckley	L. Fire Creek	Poca 4	Poca 3	Fire Creek Sd.	Poca 4 Sd.	
LC 53C	4710901754C	Sewell	U. Beckley	Beckley	Fire Creek	Poca 4	Poca 3	
LC 54C-63	4710901763C	Beckley	L. Fire Creek	Poca 6	Poca 4	Fire Creek Sd.	Poca 5 Sd	
LC 55C	4710901812C	Beckley	Fire Creek	Fire Creek Sd.				
LC 57C	4710901813C	Beckley	L. Fire Creek	Fire Creek Sd.	Poca 5 Sd			
LC 58CR	4710901937C	Beckley	Fire Creek Sd.					
WP 5CR-234	4710901823C	Fire Creek	Poca 6	Poca 5	Poca 4			
LC 60CR	4710901906C	Beckley	L. Fire Creek	Poca 6				
LC 61C-102	4710901903C	Beckley						
LC 62C-121	4710901878C	Beckley	Fire Creek					
LC 63C-120	4710901877C	Beckley						
LC 64C	4710901883C	Beckley	Fire Creek					
LC 69CR	4710902057C	Beckley	L. Fire Creek					
WP 6C-261	4710901654C	Sewell	L Sewell	U. Beckley	Beckley	Poca 5	Poca 4	Poca 3
LC 71C	4710901992C	Beckley						
LC 72C	4710901993C	Beckley	L. Fire Creek					
WP 73C	4710902027C	Poca 6	Poca 5					
WP 74C	4710902028C	Poca 6	Poca 5					
WP 78C	4710902029C	Poca 6	Poca 5					
LC 79C	4710902068C	Beckley	Poca 6					
WP 7C-267	4710901655C	Sewell	U. Beckley	Beckley	Poca 4	Poca 3		
LC 80C	4710902033C	Beckley	L. Fire Creek	Poca 6				
LC 81C	4710902049C	Beckley						
LC 82C147	4710901985C	Beckley						
LC 83C	4710901433C	U. War Eagle	M. War Eagle	L. War Eagle	Gilbert	U. Douglas		
LC 85C-184	4710901985C	L. War Eagle	Gilbert					
WP 9C-285R	4710901656C	U Sewell	Sewell	U. Beckley	Beckley	Poca 4	Poca 3	
SLC-4	4710902094C	Poca 4	Poca 5					
SLC-5	4710902095C	Poca 4	Poca 5					
LCHC-001A	4710902279C	Beckley						
LCHC-001B	4710902280C	Beckley						
LCHC-001C	4710902281C	Beckley						
LCHC-002A	4710902215C	Beckley						
LCHC-002C	4710902217C	Beckley						
LCHC-003A	4710902246C	Beckley						
LCHC-003C	4710902248C	Beckley						
LC-1	4710901288F	Princeton	Ravencliff	Big Lime	Berea			
LC-2	4710901300	Gordon	Berea	Big Lime				
LC-3	4710901294	Ravencliff	Big Lime	Berea				
LC-4	4710901353	L. Maxton	Big Lime	Berea				
LC-5	4710901354	M. Maxton	Big Lime	Berea				
LC-6	4710901350F	Big Lime	Weir	Gordon	Ravencliff			
LC-7	4710901355F	Big Lime	Berea	Gordon				
LC-8	4710901348	L. Maxton	Ravencliff	Big Lime	Berea			
LC-9	4700501578	Ravencliff	Maxton	Big Lime				
LC-10	4710901356	Ravencliff	Big Lime					

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Well #	API #	Producing Formations						
LC-11	4700501579	Princeton	Ravencliff	U. Maxton				
LC-12	4700501580	Ravencliff	Big Lime	Gordon				
LC-13	4710901351	Princeton	Ravencliff	Big Lime	Gordon			
LC-15	4700501610	Ravencliff						
LC-17	4710901432F	Ravencliff	Big Lime	Gordon				
LC-18	4710901454F	Ravencliff	Big Lime					
LC-19	4710901433	L. Lime	Gordon					
LC-20	4710901434	L. Maxton	L. Lime	Gordon				
LC-21	4710901435	L. Lime	Gordon					
LC-22	4710901436	Big Lime	Gordon					
LC-23	4710901437	Big Lime	Gordon					
LC-24	4710901439	Princeton	Ravencliff	Maxton	Big Lime	Gordon		
LC-25	4710901440W	Ravencliff	U. Maxton	Gordon				
LC-26	4710901440	Ravencliff	Weir	Berea	Gordon			
LC-27	4710901441	Princeton	Ravencliff	Big Lime	Weir	Berea	Gordon	
LC-35	4710901442	L. U. Maxton	M. Maxton	Big Lime	Gordon			
LC-36	4710901443	M. Maxton	Big Lime	Gordon				
LC-61	4710901515	Ravencliff	Big Lime	Weir	Gordon			
LC-62	4710901510	Big Lime						
LC-63	4710901675	Princeton	Ravencliff					
LC-64	4710901491	Princeton	Ravencliff	U. U. Maxton	Big Lime	Weir	Berea	Gordon
LC-65	4710901492	Ravencliff	Big Lime					
LC-66	4710901504	Ravencliff	Big Lime					
LC-68	4710901517	Ravencliff	U. M. Maxton	Big Lime	Berea			
LC-70	4710901543	Princeton	Ravencliff	Big Lime				
LC-71	4710901495	Ravencliff	Big Lime	Weir	Weir			
LC-72	4710901984	Ravencliff	L. U. Maxton					
LC-75	4710901626	U. U. Maxton	Big Lime					
LC-76	4710901497	M. Maxton	L. U. Maxton	Big Lime				
LC-77	4710901865	Ravencliff						
LC-78	4710901511	Big Lime	Gordon					
LC-81	4710901513	Princeton	Ravencliff					
LC-82	4710901518	Princeton	Ravencliff	Big Lime	Weir	Berea		
LC-83	4710901520	Ravencliff	Big Lime	Weir	Berea			
LC-84	4710901524	Princeton	Big Lime					
LC-85	4710901938	Ravencliff	Big Lime					
LC-86	4710901793	Ravencliff	Big Lime	Berea				
LC-88	4710901499	Princeton	Ravencliff					
LC-89	4710901606	Ravencliff	Big Lime	Berea				
LC-90	4710901550	Princeton	Ravencliff	Big Lime	Berea			
LC-91	4710901882	Ravencliff	Big Lime	Berea				
LC-92	4710901591	Princeton	Big Lime	Berea				
LC-93	4710901630	Princeton	L. Maxton	Berea				
LC-96	4710901556	Princeton	Ravencliff	Big Lime	Berea			
LC-97	4710901803	Ravencliff						
LC-98	4710901794	Princeton	Ravencliff	Big Lime				
LC-101	4710901551	Princeton						
LC-102	4710901866	Princeton	Ravencliff	Big Lime				
LC-104	4710902203	Princeton	Ravencliff	Big Lime	Berea			
LC-103	4710901795	Big Lime						
LC-105	4710901696	Ravencliff	Big Lime					
LC-106	4710901784	Princeton	Ravencliff					
LC-107	4710901632	Princeton	Ravencliff	Big Lime				
LC-108	4710901633	Ravencliff	Big Lime					
LC-109	4710901554	Glady Fork	Princeton	Ravencliff	Big Lime			
LC-110	4710901547	U. Princeton	L. Princeton	Ravencliff				
LC-112	4704501361	Big Lime						
LC-115	4710901796	Ravencliff						
LC-116	4710901852	Ravencliff	M. Maxton	Big Lime				
LC-117	4710901574	Princeton	Ravencliff	Big Lime	Gordon			
LC-118	4710901544	Princeton	Ravencliff	Big Lime	Gordon			
LC-120	4710901786	Big Lime						
LC-121	4710901771	Ravencliff	Big Lime					
LC-122	4710901867	Big Lime	Gordon					
LC-125	4710901545	Ravencliff	Big Lime					

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Well #	API #	Producing Formations				
LC-126	4710902062	Ravencliff	Coal			
LC-128	4710901874	Ravencliff	Big Lime	Gordon		
LC-129	4710901584	Princeton	Ravencliff	Big Lime	Gordon	
LC-130	4710901609	Glady Fork	Princeton	Ravencliff	Big Lime	Gordon
LC-132	4710901798	Big Lime	Gordon			
LC-133	4710902197	Ravencliff	Big Lime	Berea		
LC-136	4710902051	Ravencliff	L. Lime	Big Lime		
LC-139	4704501354	Big Lime				
LC-140	4704501751	Ravencliff				
LC-144	4704501642	Ravencliff				
LC-145	4704501665	Ravencliff				
LC-148	4710902137	Princeton	Ravencliff	Big Lime		
LC-153	4710901592	Weir	Gordon			
LC-154	4710901593	Princeton	Ravencliff	Big Lime	Berea	
LC-156	4710902198	Big Lime				
LC-157	4710901612	Ravencliff	L. Lime	Big Lime		
LC-158	4710901700	Glady Fork	Ravencliff	Big Lime		
LC-161	4710901594	Ravencliff				
LC-162	4710902007	Ravencliff	Big Lime			
LC-164	4710901703	Big Lime				
LC-165	4710901564	Glady Fork	Princeton	Ravencliff		
LC-166	4710901585	Big Lime				
LC-167	4710901610	Princeton	Ravencliff	Big Lime	Berea	
LC-169	4710901578	Ravencliff	Big Lime			
LC-170	4710901885	Ravencliff	Big Lime			
LC-171	4710901662	Ravencliff	Big Lime			
LC-172	4710901608	Ravencliff	Big Lime			
LC-173	4710902199	Ravencliff	Big Lime	Berea		
LC-174	4710901634	Big Lime	Weir	Gordon	Ravencliff	
LC-176	4710901648	Princeton	Ravencliff	Big Lime	Gordon	
LC-177	4704501666	Ravencliff				
LC-179	4710901663	Princeton	Ravencliff	Big Lime	Gordon	
LC-180	4710902025	Princeton	Ravencliff	Big Lime	Weir	
LC-181	4710901680	Ravencliff	Big Lime	Berea		
LC-182	4704501673	Ravencliff				
LC-183	4704501674	Ravencliff				
LC-185	4710901687	Ravencliff	Big Lime			
LC-186	4710901697	Princeton	Ravencliff	Big Lime		
LC-187	4710901698	Ravencliff	Big Lime			
LC-188	4710901688	Princeton	Big Lime			
LC-189	4704501296	Maxton	Big Lime			
LC-190	4710901689	Princeton	Ravencliff			
LC-192	4710901702	Princeton	Ravencliff	Big Lime	Gordon	
LC-193	4710901690	Princeton	Ravencliff	L. Maxton		
LC-197	4710901733	Weir				
LC-198	4710901747	Princeton	Ravencliff	Big Lime		
LC-200	4710901776	Ravencliff	Big Lime			
LC-201	4704501690	Ravencliff				
LC-202	4710902061	Ravencliff	Coal			
LC-203	4710901986	Princeton	Ravencliff	Big Lime		
LC-204	4710901875	Ravencliff	Big Lime			
LC-206	4710901936	Glady Fork	Ravencliff	Big Lime		
LC-207	4710901987	Ravencliff				
LC-208	4710902020	Princeton	Ravencliff	Gordon		
LC-209	4710901994	Princeton	Ravencliff			
LC-210	4710902060	Princeton	Ravencliff	Big Lime		
LC-211	4704501738	Big Lime	Weir			
LC-212	4710902017	Ravencliff	Big Lime			
LC-213	4710902005	Princeton	L. U. Maxton	M. Maxton	Big Lime	Gordon
LC-214	4710902200	Princeton	Ravencliff	Big Lime	Gordon	
LC-215	4704501755	L. U. Maxton	M. Maxton			
LC-217	4704501757	Ravencliff	Big Lime			
LC-219	4704501777	L. U. Maxton	M. Maxton			
LC-220	4710902120	Princeton	Ravencliff			
LC-221	4710902124	Glady Fork	Big Lime	Weir	Gordon	

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Well #	API #	Producing Formations			
LC-222	4710902113	Princeton	Big Lime	Weir	Gordon
LC-223	4710902114	Glady Fork	Ravencliff		
LC-224	4710902115	L. Lime	Big Lime		
LC-225	4710902140	Ravencliff	Big Lime		
LC-226	4710902132	Ravencliff	Big Lime		
LC-231	4710902226	Big Lime			
LC-232	4710902227	L. U. Maxton	Big Lime	gordon	
LC-235	4710902250	Princeton	Ravencliff	Big Lime	
LC-236	4710902285	Big Lime	Gordon		
LC-8868	4710900043	Princeton			
LC-8869	4710900044	Berea			
LC-8871	4710900046	Ravencliff	Big Lime		
LC-8911	4710900062	Ravencliff			
LC-8912	4700500666	M. Maxton			
LC-8982	4710900129	Ravencliff			
LC-9023	4710900124	Ravencliff	Big Lime	Berea	
LC-9041	4710900134	Ravencliff			
LC-9058	4710900163	Big Lime			
LC-9090	4710900169	Ravencliff			
LC-9120	4710900195	Ravencliff			
LC-9121	4710900185	Ravencliff	Big Lime		
LC-9122	4700500777	M. Maxton			
LC-9141	4710900199	Ravencliff			
LC-9160	4710900224	Ravencliff			
LC-9174	4710900255D	Princeton.	Ravencliff	Big Lime	
LC-9176	4710900222D	Ravencliff	Big Lime		
LC-9191	4710900258	Ravencliff			
LC-9193	4710900239	Berea			
LC-9206	4710900280D	Princeton	Ravencliff	Big Lime	
LC-9217	4710900260	Ravencliff			
LC-9446	4710900348	Berea			
LC-9681	4710900367	Berea			
LC-10219	4710900532	Ravencliff			
LC-10236	4710900537	Big Lime			
LC-10237	4710900567	Big Lime			
LC-10339	4710900612	Ravencliff			
LC-11515	4710900732F	Berea	Ravencliff		
LC-12329	4710900772	Big Lime			
Y&O Coal 2	471090810	Ravencliff			
Y&O Coal 6	4710900001D	Ravencliff	Big Lime		
Y&O Coal 8	4710900002	Ravencliff	Big Lime		
Y&O Coal 9	4710900005	Ravencliff			
Y&O Coal 12	4710900009D	Ravencliff	Maxton		
Wyoming Land 17	4710900028	Ravencliff			
Y&O Coal 23	4710900245	Maxton			
Y&O Coal 24	4708100126	Ravencliff	Maxton		
Y&O Coal 25	4710900296	Princeton	Ravencliff	Big Lime	
Y&O Coal 29	4710900352	Big Lime	Weir		
Y&O Coal 33	4710900376	Big Lime	Weir		
Wyoming Land 34	4710900381	Ravencliff			
Y&O Coal 39	4710900415	Big Lime			
Y&O Coal 40	4710900441	Big Lime			
Y&O Coal 43	4710900478	Ravencliff	Weir		
Y&O Coal 44	4710900498	Big Lime			
Y&O Coal 45	4710900508	Ravencliff	Big Lime	Weir	
Y&O Coal 47	4710900541D	Salt Sd	Ravencliff	Big Lime	
Y&O Coal 48	4710900558	Ravencliff	Big Lime		
Y&O Coal 50	4710900583	Big Lime			
Y&O Coal 51	4710900605	Ravencliff			
Y&O Coal 52	4710900591	Ravencliff			
Y&O Coal 53	4710900611	Ravencliff	Maxton		
Y&O Coal 54	4710900623	Big Lime			
Y&O Coal 56	4710900636	Ravencliff	Big Lime		
Y&O Coal 57	4710900659	Ravencliff			
Y&O Coal 58	4710900662	Ravencliff			

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Well #	API #	Producing Formations				
Y&O Coal 61	4710900678	Big Lime				
Y&O Coal 63	4710900682	Big Lime				
Y&O Coal 64	4710900683	Big Lime				
Y&O Coal 66	4710900686	Ravencliff				
Y&O Coal 67	4710900687	Big Lime				
Y&O Coal 69	4710900696	Ravencliff	Weir			
Y&O Coal 71	4710900700F	Big Lime				
Y&O Coal 72	4710900708	Big Lime				
Y&O Coal 73	4710900718	Ravencliff				
Y&O Coal 74	4710900735F	Big Lime				
Wyoming Land 75	4710900742	Ravencliff				
Y&O Coal 76	4710900755	Big Lime	Weir			
Y&O Coal 77	4710900757F	Big Lime	Weir			
Y&O Coal 78	4710900787	Big Lime	Weir			
Y&O Coal 80	4710900834	Ravencliff	Big Lime			
Y&O Coal 81	4710900835	Ravencliff				
Y&O Coal 82	4710900860	Ravencliff				
Y&O Coal 84	4710900862	Ravencliff	Big Lime			
Y&O Coal 85	4710900863	Big Lime				
Y&O Coal 86	4710900864	Princeton	Ravencliff			
Y&O Coal 87	4710900868	Ravencliff	Big Lime			
Y&O Coal 88	4710900892	Ravencliff	Maxton	Weir		
Y&O Coal 89	4710900890	Ravencliff	Big Lime			
Y&O Coal 90	4710900896	Ravencliff				
Y&O Coal 91	4710900905	Ravencliff	Big Lime			
Cooke 92	4710900897	M. Maxton	Big Lime			
Y&O Coal 93	4710900906	Ravencliff	Big Lime			
Y&O Coal 95	4710900909	Big Lime				
Y&O Coal 96	4708100607	Big Lime				
Y&O Coal 97	4710900910	Ravencliff	Big Lime			
Y&O Coal 98	4710900911	Ravencliff				
Y&O Coal 99	4710901024	Princeton	Maxton	Big Lime	Gordon	
Y&O Coal 102	4710900984F	Ravencliff	Big Lime	Gordon	Dev.Shale	
McCoy Unit 106	4710900986	Ravencliff	Big Lime	Gordon		
Y&O Coal 108	4710901094	Dev.Shale	Big Lime	Weir	Gordon	
Y&O Coal 109	4710901097	Ravencliff	Big Lime	Gordon		
Y&O Coal 110	4710901095	Ravencliff	Big Lime	Berea	U. Maxton	Gordon
Y&O Coal 111	4708100865	U. Maxton	Big Lime	Gordon		
Y&O Coal 112	4710901096	L. Maxton	L. Lime	Big Lime	Gordon	
Y&O Coal 113	4708100894	Ravencliff	Maxton	Big Lime		
Y&O Coal 119	4708100900	M. Maxton	Big Lime			
Y&O Coal 120	4710901150	M. Maxton	Big Lime			
Y&O Coal 121	4710901134	Princeton	Ravencliff	Big Lime		
Y&O Coal 122	4710901135	L.U. Maxton	Big Lime			
Y&O Coal 123	4710901136	Ravencliff	Big Lime			
Y&O Coal 124	4710901137	Princeton	Ravencliff	Big Lime		
Y&O Coal 125	4710901151	Ravencliff	Big Lime			
Y&O Coal 126	4710901138	Maxton	Big Lime			
Y&O Coal 127	4710901139	Ravencliff	Big Lime			
Y&O Coal 128	4710901152	Princeton	Ravencliff	Maxton	Big Lime	
Y&O Coal 129	4710901207	Ravencliff	Big Lime			
Y&O Coal 131	4710901182	Ravencliff	Big Lime	Weir		
Y&O Coal 132	4710901183	Ravencliff	Big Lime			
Y&O Coal 133	4708100901	Ravencliff	M. Maxton	L. Maxton		
Y&O Coal 134	4710901184	Ravencliff	Maxton	Big Lime		
Y&O Coal 135	4710901185	M. Maxton	Big Lime			
Y&O Coal 136	4710901186	Ravencliff	Big Lime	L. Maxton	M. Maxton	
Y&O Coal 137	4710901206	Princeton	Ravencliff	Big Lime		
Y&O Coal 138	4710901140	Big Lime				
Y&O Coal 139	4710901208	Ravencliff	Big Lime			
Y&O Coal 140	4710901209	Ravencliff	Big Lime			
Y&O Coal 141	4710901187	Princeton	Ravencliff	Maxton	Big Lime	
Wyoming Land 142	4710901190	Ravencliff	Big Lime			
Y&O Coal 143	4710901254	Ravencliff	Big Lime			
Y&O Coal 144	4710901255	Princeton	Ravencliff	Big Lime		

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Well #	API #	Producing Formations					
Y&O Coal 145	4710901256	Big Lime					
Y&O Coal 158	4708100936	Maxton	Big Lime	L. Lime			
Y&O Coal 159	4708100932	Maxton	Big Lime				
Y&O Coal 160	4710901259	Princeton	Ravencliff	Big Lime			
Y&O Coal 184	4708100937	Maxton	Big Lime				
Y&O Coal 223	4708100934	M. Maxton					
WP 224	4710901308	Big Lime	Weir	Gordon			
WP 225	4710901330	Ravencliff	Big Lime	Weir	Gordon		
WP 226	4710901310	Salt Sd	Princeton	Ravencliff	Big Lime	Gordon	
WP 227	4710901311	Ravencliff	Princeton	Big Lime	Weir	Gordon	
WP 228	4710901312	Big Lime					
Wyoming Land 229	4710901325	Ravencliff	M. Maxton	L. Lime	Big Lime		
Wyoming Land 230	4710901324	Princeton	Ravencliff	Big Lime	Weir	Berea	Gordon
WP 233	4710901314	Ravencliff					
WP 234	4710901315	Big Lime	Weir	Gordon			
WP 235	4710901321	Ravencliff	Big Lime				
WP 236	4710901334	Ravencliff	Big Lime	Weir	Gordon		
WP 237	4710901326	Princeton	Ravencliff	Big Lime	Weir	Gordon	
WP 238	4710901344	L.U. Maxton	Big Lime	M. Weir	L. Weir	Gordon	
WP 239	4710901328	Princeton	Ravencliff	Big Lime	Weir		
WP 240	4710901327	Princeton	Ravencliff	Big Lime	Weir	Gordon	
WP 241	4710901329	Ravencliff	L.U. Maxton	Big Lime	Weir	Gordon	
WP 242	4710901319	Big Lime	Weir	Gordon	Gordon		
WP 243	4710901320	Ravencliff	Big Lime	Weir	Gordon		
Wyoming Land 244	4710901332	Big Lime	Weir	Gordon			
Wyoming Land 245	4710901333	Ravencliff	Big Lime	Weir	Gordon		
Wyoming Land 246	4710901345	Ravencliff	Big Lime	Weir	berea	Gordon	
WP 248	4708100958	Ravencliff	M. Maxton	L. Maxton			
WP 249	4710901349	Ravencliff	L.U. Maxton	Big Lime	Weir	Gordon	
WP 251	4710901347	Ravencliff	Big Lime	Weir	berea	Gordon	
WP 252	4710901357	Big Lime	Weir	Gordon			
WP 253	4710901358	Princeton	L. Lime	Weir	Gordon		
WP 254	4710901375	Big Lime	Ravencliff				
WP 255	4710901412	Ravencliff	M. Maxton	Big Lime	Weir	Gordon	
WP 256	4710901368	Ravencliff	Big Lime	Weir			
WP 257	4708100962	U.M. Maxton	L.M. Maxton	Big Lime	Weir		
WP 259	4710901371	Ravencliff	Big Lime	Weir	Gordon		
WP 260	4710901372	Ravencliff	L.U. Maxton	Big Lime	Weir	Gordon	
WP 261	4710901373	Princeton	Ravencliff	M. Maxton	Big Lime	Weir	Gordon
WP 262	4710901374	Weir	Gordon				
WP 265	4710901451	Princeton	Ravencliff	Big Lime	Weir		
WP 267	4710901411	Princeton	Ravencliff	Maxton	Weir	Big Lime	
WP 268	4710901423	Ravencliff	Maxton	Big Lime	Weir		
WP 269	4710901413	Princeton	Ravencliff	L.U. Maxton	Big Lime	Weir	Gordon
WP 270	4710901445	Big Lime	Weir				
WP 271	4710901414	Princeton	Ravencliff	L. Maxton	Big Lime	Weir	
WP 272	4710901424	Ravencliff	Big Lime	Weir			
WP 273	4710901415	Ravencliff	L.U. Maxton	L. Maxton	Big Lime	Weir	
WP 274	4710902004	Princeton	Ravencliff	Big Lime	Weir		
WP 275	4710901417	Princeton	Ravencliff	M. Maxton	Big Lime	Weir	
WP 276	4710901716	Weir					
WP 277	4710901418	Ravencliff	Big Lime	Weir			
WP 278	4710901425	Ravencliff	Big Lime	Weir			
WP 279	4710901565	Big Lime					
WP 281	4710901452	Ravencliff	Weir				
WP 282	4710901868	Big Lime	Weir	Gordon			
WP 283	4710901566	M. Maxton	Big Lime	Weir	Gordon		
WP 284	4710901548	Weir	Gordon				
WP 285	4710901489	Big Lime	Weir				
WP 286	4710901479	Weir					
WP 287	4710901539	Ravencliff	Big Lime	Weir	Gordon		
WP 288	4710901483	Princeton	Ravencliff	Big Lime	Weir		
WP 289	4710901484	Princeton	Ravencliff	L.U. Maxton	Weir		
WP 290	4710901480	Ravencliff	Big Lime				
WP 291	4710901500	Big Lime	Weir	Gordon			

LC-19
List of wells to be serviced
Exhibit 8

Well #	API #	Producing Formations				
WP 292	4710901871	Big Lime	Weir	Gordon		
WP 293	4710901505	Weir				
WP 295	4710901597	Weir	Gordon			
WP 296	4710901598	Big Lime	Weir	Gordon		
WP 299	4710901904	Ravencliff	Big Lime			
WP 300	4710902125	Weir	Gordon			
WP 301	4710901819	Princeton	Ravencliff	Big Lime		
WP 309	4710902000	Princeton	Ravencliff	Big Lime	Weir	
WP 310	4710901628	Weir	Gordon			
WP 311	4710901572	Big Lime	Weir	Gordon		
WP 312	4710901555	Big Lime	Weir	Gordon		
WP 313	4710901629	Princeton	Big Lime	Weir		
WP 314	4710901579	Princeton	Ravencliff	L. Maxton	Big Lime	
WP 315	4710901559	Big Lime	Weir			
WP 316	4710901573	Princeton	Big Lime	Weir	Gordon	
WP 317	4710901825	Ravencliff	Big Lime	Weir	Gordon	
WP 318	4710901595	Princeton	Ravencliff	Big Lime	Weir	Gordon
WP 319	4710901801	Big Lime	Weir	Gordon		
WP 320	4710901599	Weir	Gordon			
WP 321	4710901649	Big Lime				
WP 322	4710901650	Princeton	Ravencliff	Big Lime		
WP 323	4710901640	Big Lime	Weir	Gordon		
WP 324	4710901918	Princeton	Ravencliff			
WP 325	4710901713	Big Lime				
WP 326	4710901818	Ravencliff				
WP 327	4710901981	Princeton	Ravencliff	Weir	Gordon	
WP 328	4710901694	Princeton	Ravencliff	L. Maxton	Weir	
WP 329	4710901595	Weir	Gordon			
WP 330	4710901699	Princeton	Ravencliff	Big Lime	Weir	Gordon
WP 332	4710901760	Big Lime	Weir	Gordon		
WP 333	4710901943	Princeton	Ravencliff	Big Lime		
WP 334	4710901939	Ravencliff	Big Lime	Weir		
WP 335	4710901944	Ravencliff	L. Lime	Big Lime	Weir	
WP 336	4710901982	Ravencliff	Big Lime	Weir		
WP 337	4710901983	Big Lime	Weir			
WP 338	4710902012	Ravencliff	Big Lime	Weir	Gordon	
WP 339	4710901968	Princeton	Ravencliff	Big Lime	Weir	
WP 340	4710901969	Ravencliff	Big Lime	Weir		
WP 341	4710902091	Princeton	Big Lime	Weir	Gordon	
WP 342	4710902066	Big Lime	Weir			
WP 343	4710902067	Weir				
WP 344	4710902076	Ravencliff	Big Lime	Weir	Gordon	
WP 345	4710902129	Ravencliff	Big Lime	Weir		
WP 346	4710902130	Ravencliff	Big Lime	Weir		
WP 347	4710902111	Ravencliff	Big Lime	Weir		
WP 348	4710902116	Ravencliff	Weir	Gordon		
WP 350	4710902126	Princeton	Ravencliff	Big Lime	Weir	
WP 351	4708101253	Ravencliff	Big Lime	Weir	Gordon	
WP 352	4710902112	Princeton	Ravencliff	Big Lime	Weir	Gordon
WP 353	4710902136	Ravencliff	Big Lime	Weir		
WP 354	4710902165	Princeton	Ravencliff			
WP 355	4710902127	Ravencliff	Big Lime	Weir		
WP 356	4710902201	Big Lime	Weir	Gordon		
WP 357	4710902233	Big Lime	Weir			
WP 358	4710902223	Ravencliff	Big Lime	Weir	Gordon	
WP 359	4710902214	Princeton	Big Lime	Gordon		
WP 361	4710902210	Princeton	Ravencliff	Big Lime	Weir	Gordon
WP 362	4710902211	Ravencliff	Big Lime			
WP 363	4710902234	Princeton	Ravencliff	Big Lime		
WP 364	4710902228	Ravencliff	Weir			
WP 365	4710902249	L.U. Maxton	Big Lime	Weir	Gordon	
WP 366	4710902224	Weir				

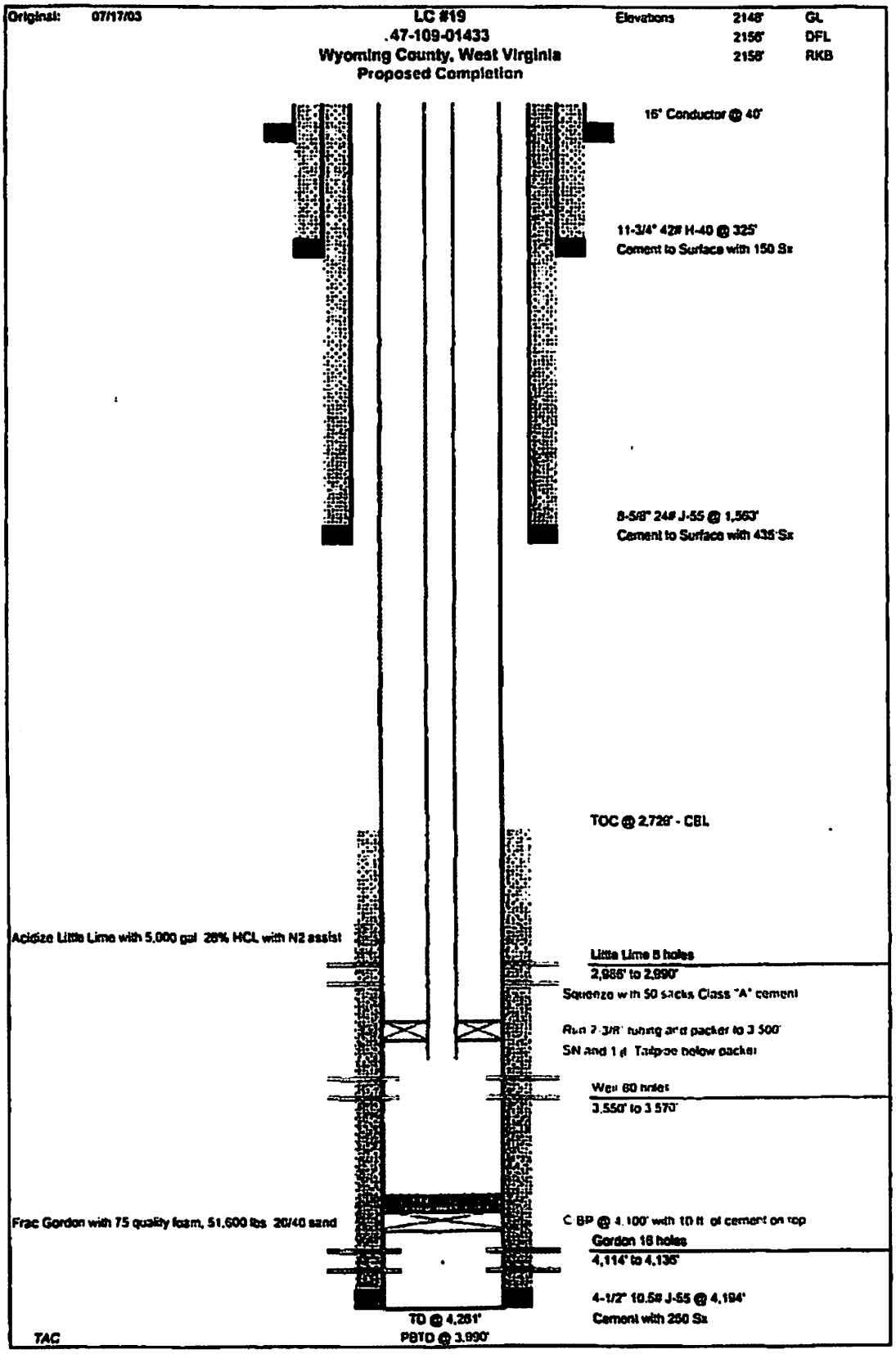
Original: 07/17/03
LC #19
.47-109-01433
Wyoming County, West Virginia
Proposed Completion
Elevations 2148' GL
2156' DFL
2158' RKB
15" Conductor @ 40'
11-3/4" 42# H-40 @ 325'
Cement to Surface with 150 Sx
8-5/8" 24# J-55 @ 1,563'
Cement to Surface with 435 Sx
TOC @ 2,729' - CBL
Acidize Little Lime with 5,000 gal 28% HCL with N2 assist
Little Lime 8 holes
2,985' to 2,990'
Squeeze with 50 sacks Class "A" cement
Run 2 3/8" tubing and packer to 3,500'
SN and 1 jt Tailpipe below packer
Weir 60 holes
3,550' to 3,570'
Frac Gordon with 75 quality foam, 51,600 lbs 20/40 sand
CIBP @ 4,100' with 10 ft of cement on top
Gordon 16 holes
4,114' to 4,136'
4-1/2" 10.5# J-55 @ 4,194'
Cement with 250 Sx
TD @ 4,261'
PBTD @ 3,990'
TAC

Exhibit 9

Office of Oil and Gas
1356 Hansford Street
Charleston, WV 25301
Telephone: 304-558-6075
Fax: 304-558-6047

West Virginia Department of Environmental Protection

Bob Wise
Governor

Cabinet Secretary
Stephanie Timmermeyer

PUBLIC NOTICE
APPLICATION FOR STATE UNDERGROUND INJECTION CONTROL PERMIT

PUBLIC NOTICE NO.UIC-1-2004 PAPER: The Independent Herald
P.O. Box 100, Pineville ,WV. 24874-0100

PUBLIC NOTICE DATE March 2004

The following has applied has applied for a State Underground Injection Control (UIC) Permit for this facility or activity:

Penn Virginia Oil & Gas
2550 E. Stone Dr. Suite110
Kingsport, TN. 37660

Application No. UIC2D1091433

Watershed Location
Crane Fork

Approximate Latitude: 5270' S of 37°47'30"
Approximate Longitude 3260' W of 81°30'00"

Activity:
UIC Permit for the injection of produced fluid.
Business Conducted:
On the basis of review of the application, the "Water Pollution Control Act, Chapter 20,Article 5A-5(a)", and the "West Virginia Legislative Rules", the State of West Virginia will act on the above application.

Any interested person may submit written comments on the draft permit and may request a public hearing within 30 days of the date of this public notice. Such comments or requests should be addressed to:

Jamie Stevens
Office of Oil and Gas, WV DEP
1356 Hansford Street
Charleston , West Virginia 25301

Comments received within this period will be considered prior to acting on the permit application. Correspondence should include the name, address and telephone number of the respondent and a concise statement of the nature of the issues of concernment. A public hearing may be held if the Director considers significant, the degree of interest relevant to the draft permit. You may contact the person identified above at 304-558-6075 to obtain further information.

The application, draft permit and any required fact sheet on file can be inspected, by appointment, or copies obtained, at a nominal cost, at the Department of Environmental Protection, Office of Oil and Gas, 1356 Hansford Street, Charleston, West Virginia from 9:00 a.m. to 4:30 p.m. on business days.

review UIC in Weir

Penn Virginia 109-01433 El - 2148'
Conversion to 2D -

109-01356 - Company owned - 127' of 13 3/8 cts
El 2091' 57' diff ↑ 1732' of 8 5/8 551 cts
@ 3000' SW of L.C. 19. weir was not drilled 4200 of 4 1/2. 410 sks.

109-01434 Company owned.
El 2403' 255' ↓ diff. Weir 3818'-3830' 30' of 16"
@ 2400' Straight South 582' of 11 3/4" 354 sacks cts
maxon middle 3104'-3117' 1798' of 8 5/8" 551' sacks cts
Lower - 3224-3230 4474' of 4 1/2" 473' sacks.
Gordon - 4362'-4397

109-01454 Max Lower 3523' 3563' 30' 16" Conductor
El - 2,884' 736' V diff Big Lim. 3752'-3891' 2046' of 8 5/8" 1121 sks
Gordon - 4788'-4802' 4903' - 4 1/2 - 526' There were incorrect
Company owned Rework done at later date Permit Cancelled work never completed Cement squeeze & frac Ravencliffe 2852'-2890' ~~The work did get done~~

109-01865 -
Company owned 2343' El. 65' of 13 3/8 - Conductor left
@ 2600' N slight to N. 9 5/8" - 263' - 136
7" 1812' 378
Ravencliff 2423'-2432'. 4.5' 2522' 114

109-01432 16" 30' Conductor
Company owned 2382' 11 3/4" 560' 369
8 5/8" 1798' 551
3500' NE. Big Lim 3282' 3315'. 4.5- 4382' 546
Gordon 4300'-4312'
Weir not produced 3820'-3855'

Mike Ferm #1 it looks OK to me you need to make the call -

'tt