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

February 23, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4700749, issued to ENERGY DEVELOPMENT 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: 8
Farm Name: RUSSNAK, STEVE & ETHEL
API Well Number: 47-4700749
Permit Type: Plugging
Date Issued: 02/23/2015

Promoting a healthy environment.

4700749P

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.

4700749P

WW-4B
Rev. 2/01

1) Date September 24, 2014
2) Operator's Well No. EDC #8
3) API Well No. 47- 047 - 0749

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

5) Location: Elevation 2177'
Watershed Atwell Branch
District Sandy River 6
County McDowell
Quadrangle Bradshaw 261

6) Well Operator Energy Development Corp
Address P.O. Box 1049
Bluefield, VA 24605

7) Designated Agent Sandra K. Belcher
Address 160 Kade Hollow Road
Bluefield, WV 24701

8) Oil and Gas Inspector to be notified
Name Gary Kennedy
Address P.O. Box 268
Nimitz, WV 25978

9) Plugging Contractor
Name
Address

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

1. Trip in the well with 2-3/8" tubing to "total depth" ~~(5320'±)~~ ≈4967
2. Load hole with ~~fluid~~ Gel (as per inspector's instructions)
3. Set bottomcement plug from 5320' to 5050' 4900'-4650' gwm
   Wait Approx 4 hrs. for cement to set. Run in and tap plug
4. Trip the tubing out of the well
5. Top of 4-1/2" casing at 2100', as per bond log Freepoint
6. Cut or shoot 4-1/2: casing at 2100'± at a collar
7. Set 100' cement plug acorss the point the 4-1/2" casing cut
8. Pull 4-1/2" casing out to a depth of 250' from surface
9. Set cement plug from 250' to surface
10. Pull remaining 4-1/2" out of well and top off 8-7/8" casing with cement
11. Install steel casing monument (leaving 3' above ground) with API #47-047-00749 inscribed
12. Haul 4-1/2" and well equipment off location and reclaim location and road as per DEP specs, see attached W-9

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Office of Oil & Gas
NOV 20 2014

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

Work order approved by inspector Gary Kennedy Date 11/7/14

4700749P

WR-35 API# 47-047-00749F

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Russnak, Steve & Ethel Operator Well No. EDC #8
Location: Elevation: 2177' Quadrangle: Bradshaw 7.5
District: Sandy River County: McDowell
Latitude: 1,150 Feet South of 37 Degrees 22 Minutes 30 Seconds
Longitude: 4,850 Feet West of 81 Degrees 45 Minutes 0 Seconds

Company: Energy Development Corp.
534 Virginia Avenue
Bluefield Va. 24605

Agent: Sandra Belcher
Inspector: Barry Stollings
Permit Issued: 6/19/2002
Well work Commenced: 8/13/2002
Well work Completed: 1/30/2003
Verbal Plugging Permission granted on: NA
Rotary X Cable Tool ___ Rig
Total Depth (ft): LTD- 4967' DTD- 4967'
Fresh Water Depths (ft): 104'
Salt Water Depths (ft): none
Is coal being mined in area: No
Coal Depths: 124-126', 328-330', 1175-1179', 1380-1383', 1605-1607

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16	34'	34'	
8 5/8	1888'	1888'	450 sks
4 1/2		4933'	100 sks
			141 sks

OPEN FLOW DATA:

Producing formation(s): NA Pay zone depth (ft) See back
Gas: Initial open flow 0 MCF/D Oil: Initial open flow 0 Bbl/d
Final open flow 0 MCF/D Final open flow 0 Bbl/d
Time of open flow between initial and final tests: 0 Hours
Static rock pressure 0 psig (surface pressure) after 0 Hours

Second producing formation(s): NA Pay zone depth (ft) See back
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 THE 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: Energy Development Corporation
BY: W. D. Evans
DATE: July 11, 2007

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4700749P

8-13-2002
MIRU Fisher Well Surveys, set Bridge Plug at 2840'. Shot 4 squeeze holes from 2810-2811'.
MIRU BJ Services, attempt to circulate prior to squeeze cement job. Could not establish circulation.
SD, Rig down Fisher & BJ, move off location.

8-16-2002
Fill backside with water, MIRU BJ Services. Attempt to circulate prior to squeeze cement job. Could not establish circulation. SD, Rig down BJ, move off location.

1-22-2003
MIRU Schlumberger Well Services to squeeze 4 1/2" casing. Established circulation, pumped 141 sks Class A cement thru 4 squeeze holes at 2810'. Followed plug downhole with wireline to 2720'.
SD, Rig down Schlumberger, move off location.

1-30-2003
MIRU Key Energy Surveys, ran bond log from 2596' up to 1782'. TOC at 2120'.
Rig down Key, move off location. Waiting on swab rig/service rig.

See completion report filed on November 1, 1978 for additional information on formations, and original completion.

Office of Oil & Gas
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4700749P

OG-10
Rev. - 9-71

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Falcon Drilling
Rig #2

Rotary X Oil ____
Cable ____ Gas X
Recycling ____ Comb. ____
Water Flood ____ Storage ____
Disposal ____ ____ (Kind)

Quadrangle Bradshaw

Permit No. McD - 749

Company Energy Development Corporation
Address P.O. Box 165, Bluefield, Va. 24605
Farm J.N. Harman III Acres 83
Location (waters) Atwell Br.
Well No. 8 Elev 2185 EKB
District Big Creek County McDowell
The surface of tract is owned in fee by
Steve & Ethel Russnak
Address Newark, Delaware
Mineral rights are owned by J.N. Harman III
Address Welch, W. Va.
Drilling Commenced 7-22-78
Drilling Completed 8-3-78
Initial open flow 21 M cu. ft. ____ bbls.
Final production 169M cu. ft. per day ____ bbls.
Well open ____ hrs. before test 850# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.	34'	34'	7 sks. Crew
13-10"			
9 5/8			
8 5/8	1888'	1888'	450 sks. Dow.
7			
5 1/2			
4 1/2	-	4933	100 sks. Dow.
3			
2			
Liners Used			

Attach copy of cementing record.

Well treatment details:

Frac with 500 gal. HCl and

Coal was encountered at 124-126, 328-330 Feet 1175-1179, 1380-1383, 1605-1607 Inches
Fresh water 104' Feet ____ Salt Water ____ Feet ____
Producing Sand Berea Depth 4832 - 4848 17 holes

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sub Base			0	10		
Sandy Shale			10	15		
Sand			15	67		
Sand & Shale			67	96		
Sand			96	124	½' wat. 104'	
Coal			124	126		
Sand			126	328		
Coal			328	330		
Sand & Shale			330	339		
Sand			339	410		
Sand & Shale			410	440		
Sand			440	454		
Sand & Shale			454	1160		
Sand			1160	1175		
Coal			1175	1179		
Sand			1179	1288		
Sand & Shale			1288	1380		
Coal			1380	1383		
Sand & Shale			1383	1605		
Coal			1605	1607		
Sand & Shale			1607	1904		
Sand			1904	1988		
Sand & Shale			1988	2360		
Sand			2360	2380		

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(over)

* Indicates Electric Log tops in the remarks section.

4700749P

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			2380	2394		
Sand			2394	2484		
Shale & Sand			2484	2528		
Lime			2528	2582		
Shale			2582	2634		
Sand - Shaley			2634	2702		
Shale & Sand			2702	2860		
Sand & Shale			2860	3108		
Sand			3108	3168		
Sand & Shale			3168	3394		
Shale			3394	3494		
Little Lime			3494	3544		
Shale			3544	3600		
Big Lime			3600	4165	Gas chk 4700 No show	
Shale & Sand			4165	4224		
Sand & Shale, Weir			4224	4362		
Sand & Shale			4362	4493		
Shale			4493	4776		
Coffee Shale			4776	4794		
Berea			4794	4870		
Shale			4870	4936		
Sand, Shaley			4936	4950		
Shale			4950			
TOTAL DEPTH				4967		

Initial open flow 21 Mcf per day

Logged by Birdwell

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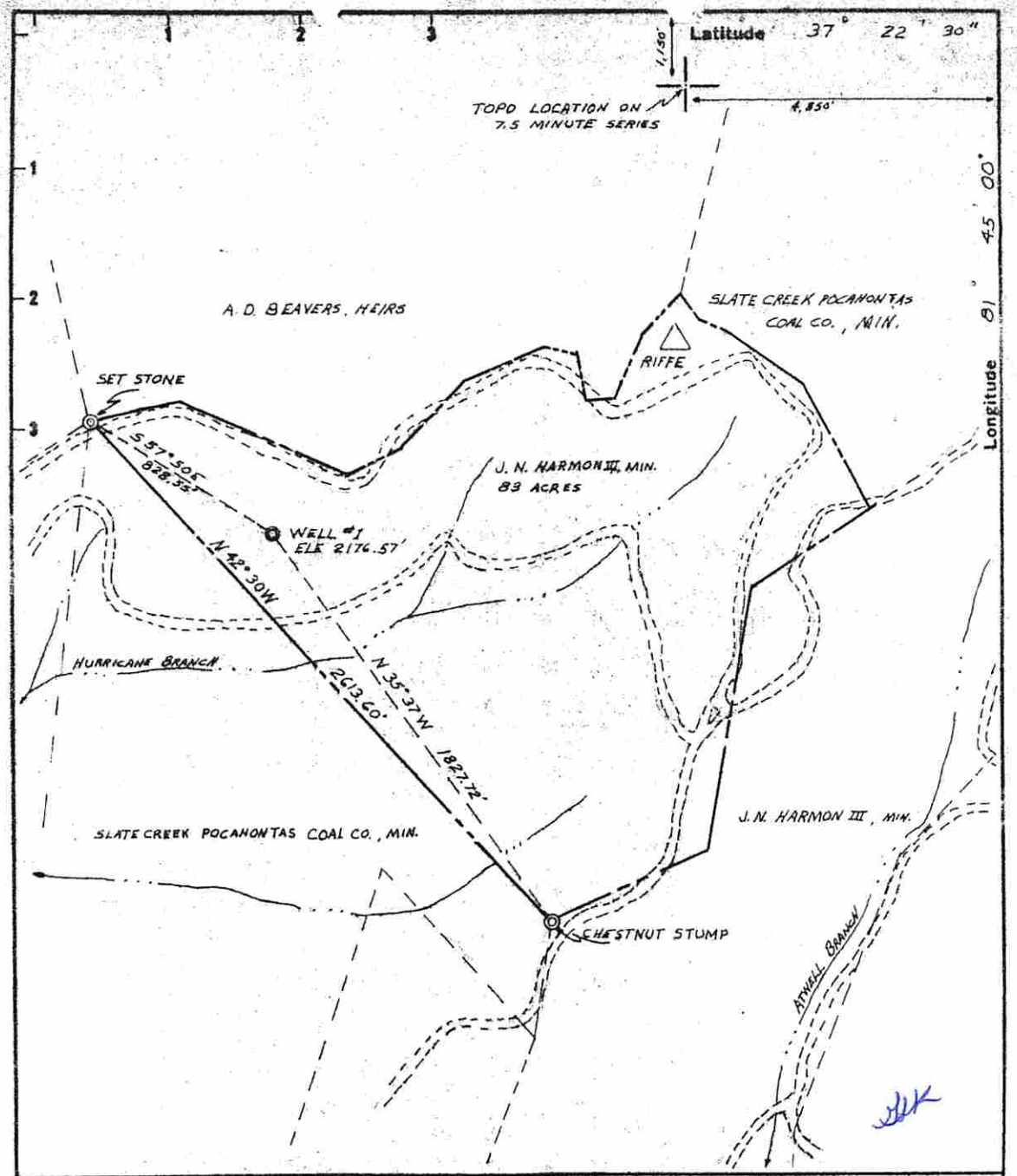
NOV 20 2014

Date November 1, 1978 19____

APPROVED Energy Development Corporation Owner

By D. Gene Harris Cons
(Title)

~~4700~~
4700749P



New Location ☒
Drill Deeper ☐
Abandonment ☐

Minimum Error of Closure 1' IN 5000'
Source of Elevation RIFFE TRIANGULATION STATION - U.S.G.S. - TOP OF MTN. - NEAR MT. CARMEL CHURCH ELE. 2297
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company ENERGY DEVELOPMENT CORP.
Address P.O. BOX 165 - BLUEFIELD, VA.
Farm J. N. HARMON III
Tract 1 Acres 83 Lease No.
Well (Farm) No. 8 Serial No.
Elevation (Spirit Level) 2176.57'
Quadrangle BRADSHAW
County McDOWELL District SANDY RIVER
SURVEYOR David E. Jackson
SURVEYOR'S Registration No. 344
File No. Drawing No.
Date DEC. 23 1977 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. McD 749

✚ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

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N9404

4706749P

N. McCullough

BOND CEMENT AND-OR SONIC SEISMOGRAM LOG

GAMMA RAY LOG

FILING NO. HBC-GR-93844

COMPANY ENERGY DEVELOPEMENT CORPORATION

WELL HARMAN III #8

FIELD

COUNTY McDOWELL STATE TEXAS

LOCATION SEC. TWP. RGE.

OTHER SERVICES:

ELEVATIONS: KB DF GL

PERMANENT DATUM	GL ELEV.
LOG MEASURED FROM	9' ABOVE GL
DRILLING MEASURED FROM	KB
DATE	9-28-78
RUN NO.	ONE
TYPE LOG	BOND CEMENT-SONIC SEISMOGRAM
DEPTH—DRILLER	4882'
DEPTH—LOGGER	4878'
BOTTOM LOGGED INTERVAL	4300'
TOP LOGGED INTERVAL	WATER
TYPE FLUID IN HOLE	
SALINITY PPM CL.	
DENSITY LB./GAL.	
LEVEL	
MAX. REC. TEMP. DEG. F.	
OPR. RIG TIME	
RECORDED BY	ENDICOTT
WITNESSED BY	MR. HANEY

BORE HOLE RECORD

RUN NO.	BIT	FROM	TO
1			

CASING RECORD

SIZE	WGT.	FROM	TO
4-1/2"		0	TD

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (API)

LOGGING AND EQUIPMENT DATA (BOND CEMENT LOG)

DATE RECORDED	9-28-78	TOOL MODEL NO.	5547-0-0	
TIME STARTED		DIAMETER	3.5" x 1.75"	
TIME FINISHED		LENGTH	17' (4' SPACING)	
LOGGED INTERVAL	4878' - 4300'			
LOGGED CEMENT TOP				

CEMENTING DATA

	1	2	SQUEEZE NO. 1	SQUEEZE NO. 2	SQUEEZE NO. 3
DATE AND HOUR SET					
SETTING TIME (HRS.)					
TYPE CEMENT					
SACKS USED					
PRECEDING FLUID					
% ADDITIVE					
% RETARDER					
SLURRY WEIGHT					
BREAKDOWN PRESSURE					
SURFACE MAX. PRESS.					
BOTTOM MAX. PRESS.					

GAMMA RAY

RUN NO.	ONE		
TOOL MODEL NO.	5547-0-0		
DIAM.	3.5"		
DETECT. MODEL NO.	5549-25		
TYPE	SCINT.		
LENGTH	3"		
DIST. TO N. SOURCE			

NEUTRON

RUN NO.			
LOG TYPE			
TOOL MODEL NO.			
DIAM.			
DETECT. MODEL NO.			
TYPE			
LENGTH			
SOURCE MODEL NO.			
SERIAL NO.			
SPACING			
TYPE			
STRENGTH			

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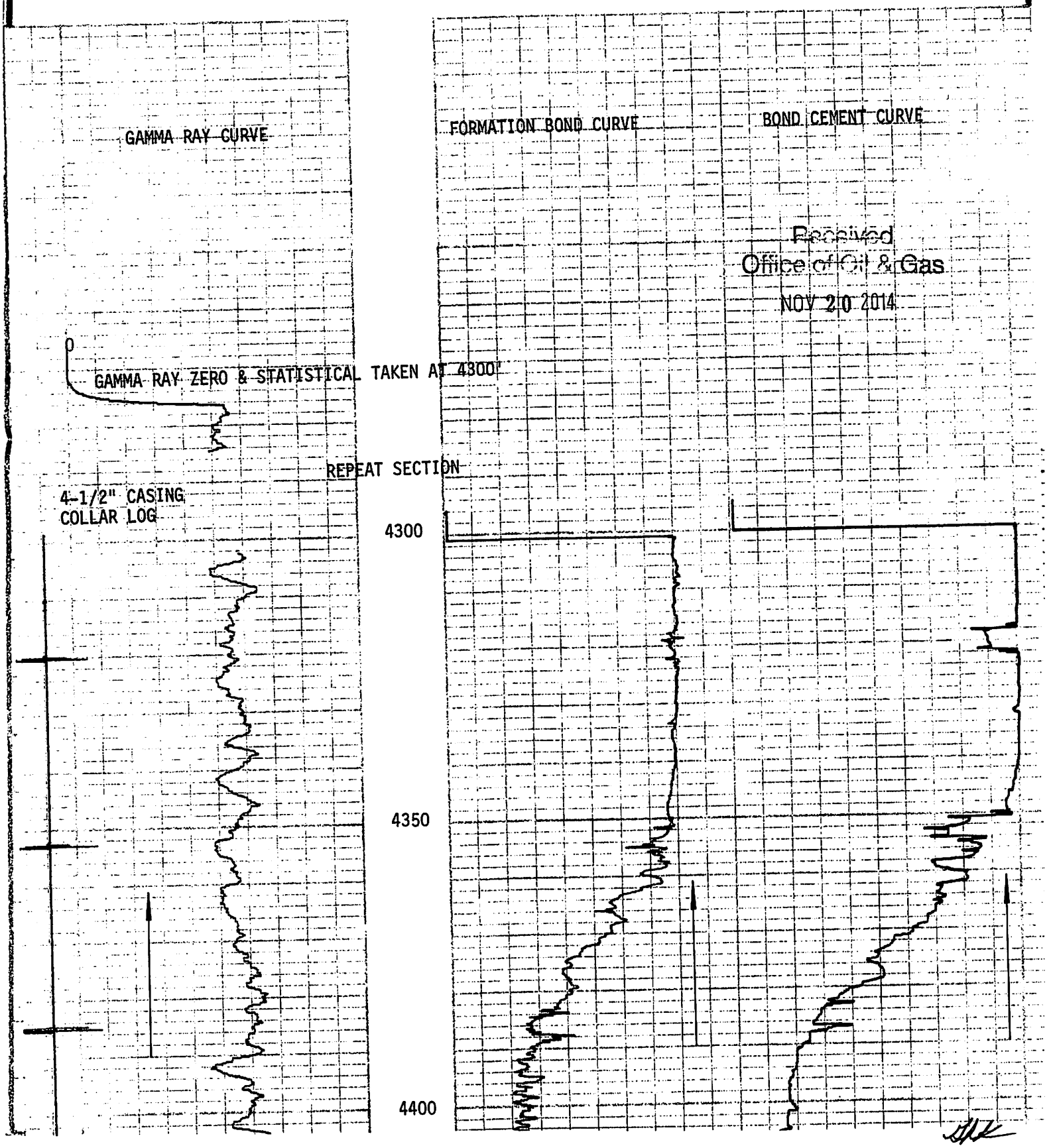
GENERAL

HOIST TRUCK NO.	1480
INST. TRUCK NO.	1480
TOOL SERIAL NO.	
LOG TICKET NO.	22540

LOGGING DATA

RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT./MIN.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	API GR. UNITS PER LOG DIV.	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	API N. UNITS PER LOG DIV.
1	4872.5'	4300'	30	3	G-300 D-300 R-5	0	10.5			4700749P	

REMARKS:



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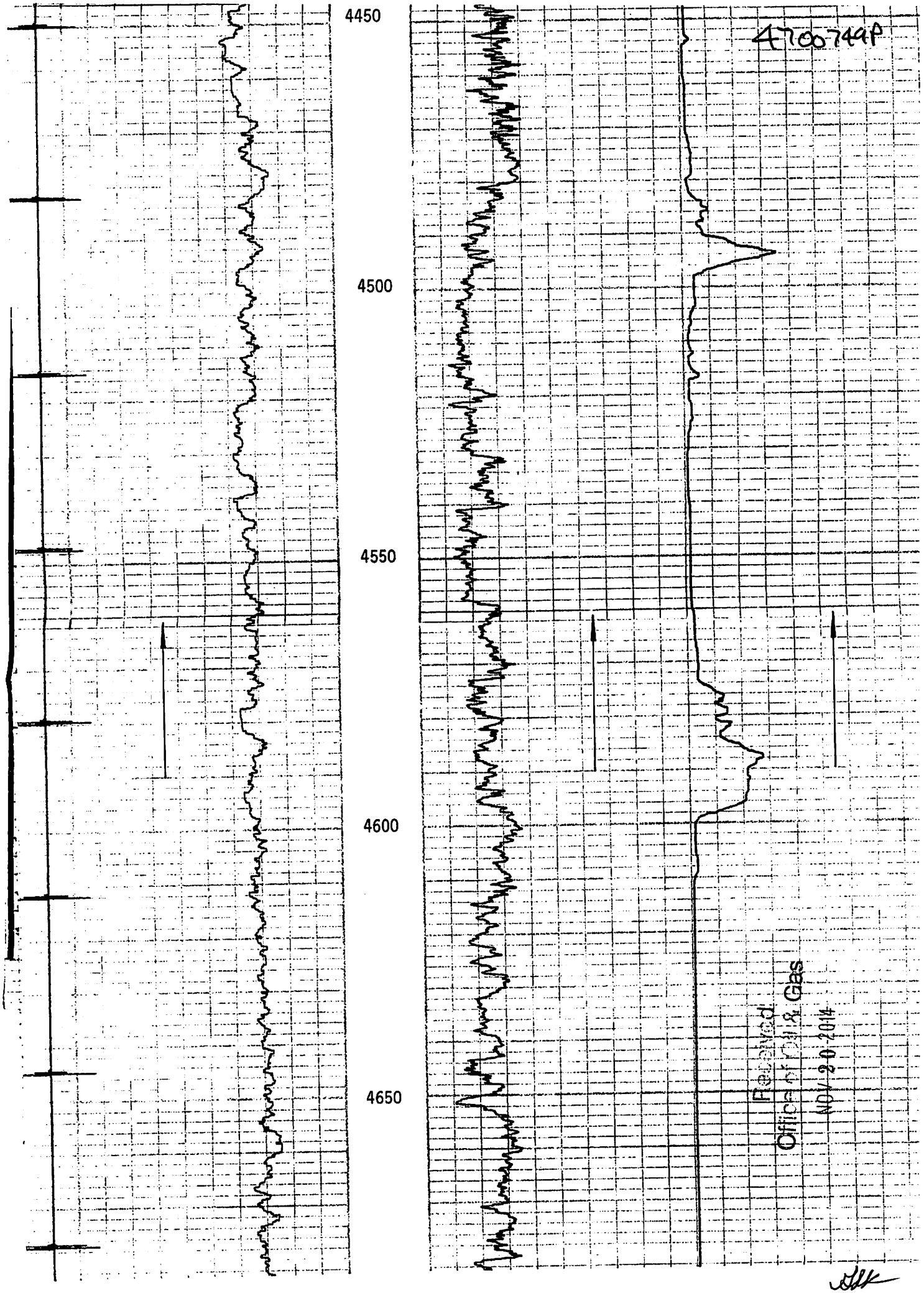
4700744P
4450
4500
4550
4600
4650
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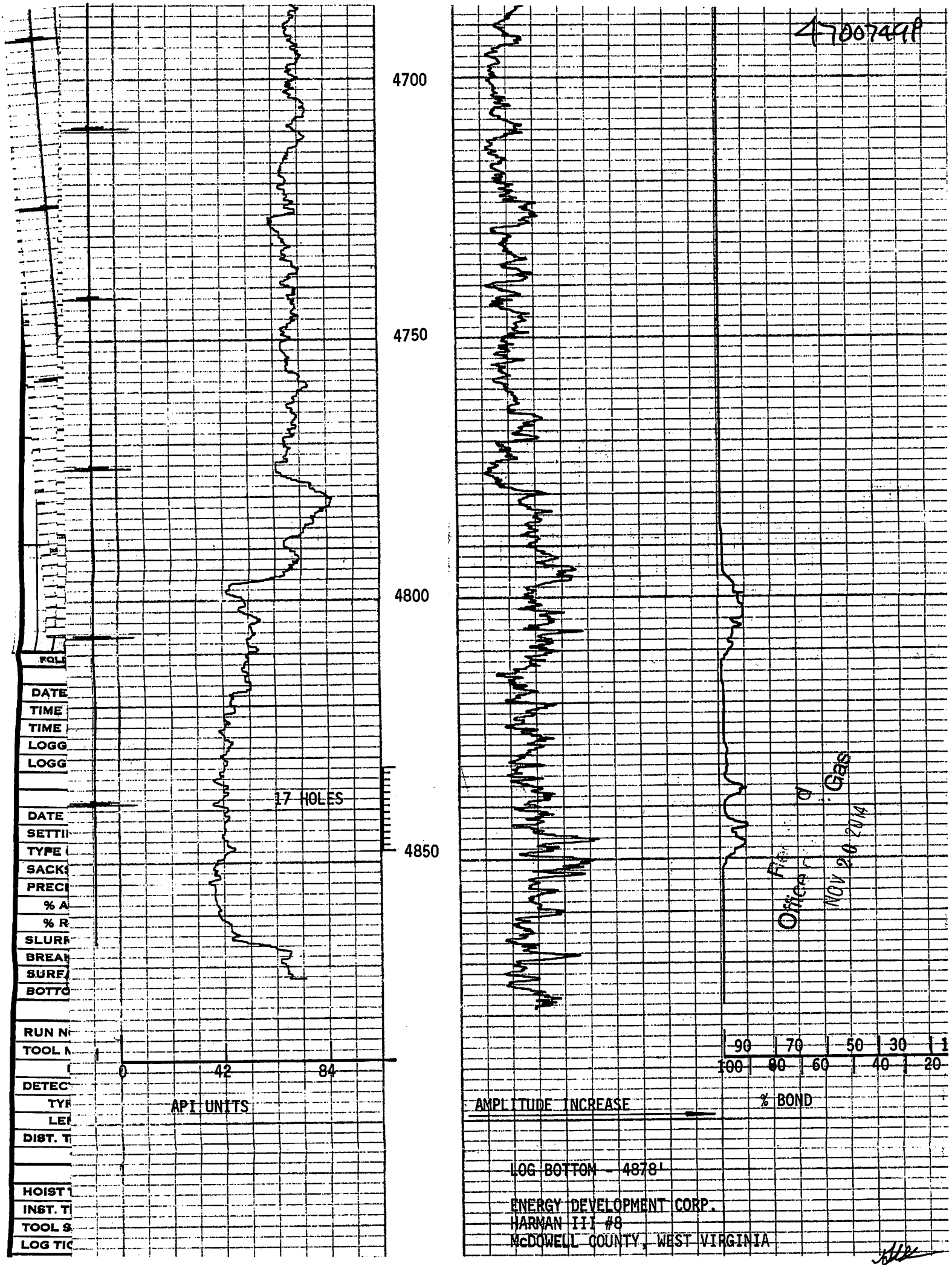
NOV 20 2014


4700
4750
4800
4850
17 HOLES
0
42
84
API UNITS
90
70
50
30
100
80
60
40
20
AMPLITUDE INCREASE
% BOND
LOG BOTTOM - 4878'
ENERGY DEVELOPMENT CORP.
HARMAN III #8
McDOWELL COUNTY, WEST VIRGINIA
Office of Oil & Gas
NOV 20 2014

4700749P

WW-4A
Revised 6-07

1) Date: September 24, 2014
2) Operator's Well Number
EDC #8

3) API Well No.: 47 - 047- - 0749

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 Sarah E. Price
Address 1266 Atwell Branch Road
Raysal, WV 24879
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name
Address
(b) Coal Owner(s) with Declaration
Name
Address
Name
Address
(c) Coal Lessee with Declaration
Name
Address

6) Inspector Gary Kennedy
Address P.O. Box 268
Nimitz, WV 25978
Telephone 304-382-8402

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 20 2014

Well Operator Energy Development Corporation
By: [signature]
Its: President
Address P.O. Box 1049
Bluefield, VA 24605
Telephone 276-322-5437

Subscribed and sworn before me this 24th day of September, 2014
Sandra K. Belcher Notary Public
My Commission Expires Dec. 31, 2015 NOTARY # 249599

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.

4700749P

SURFACE OWNER WAIVER

Operator's Well Number EDC #8

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Received
Office of Oil & Gas
NOV 20 2014

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

Sarah Price
Signature

Date 10-27-14

FOR EXECUTION BY A CORPORATION, ETC.

Name EDC Operating Company
By W. D. Evans
Its President Date 10-27-14

Signature Date 10-27-14

WW-9
Rev. 5/08

4700749P

Page _____ of _____
API Number 47 - 47 - 0749
Operator's Well No. EDC #8

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 Energy Development Corporation OP Code 15800

Watershed Atwell Branch Quadrangle Bradshaw

Elevation 2177' County McDowell District Sandy River

Description of anticipated Pit Waste: No Waste Anticipated

Will a synthetic liner be used in the pit? _____ ?

ANY WELL EFFLUENT MUST BE DISPOSED OF PROPERLY.
gw m

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)
x Other (Explain Tank will be on location to collect fluid

Received
Office of Oil & Gas
NOV 20 2014

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover x Plugging
_____ Other (Explain _____

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 _____

Company Official (Typed Name) W. D. Evans

Company Official Title President

Subscribed and sworn before me this 24th day of September, 20 14

Sandra K. Belcher Notory Public

My commission expires Dec. 31, 2015 NOTARY # 249599

4700749

Form WW-9

Operator's Well No._____

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 1 Acre Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 ton lbs/acre (500 lbs minimum)

Mulch Hay 2 Tons/acre

Seed Mixtures

Area I Seed Type	lbs/acre	Area II Seed Type	lbs/acre
KY-31	40		
Alsike Clover	5		
Annual Rye	15		

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Greg Kennedy

Comments: _____

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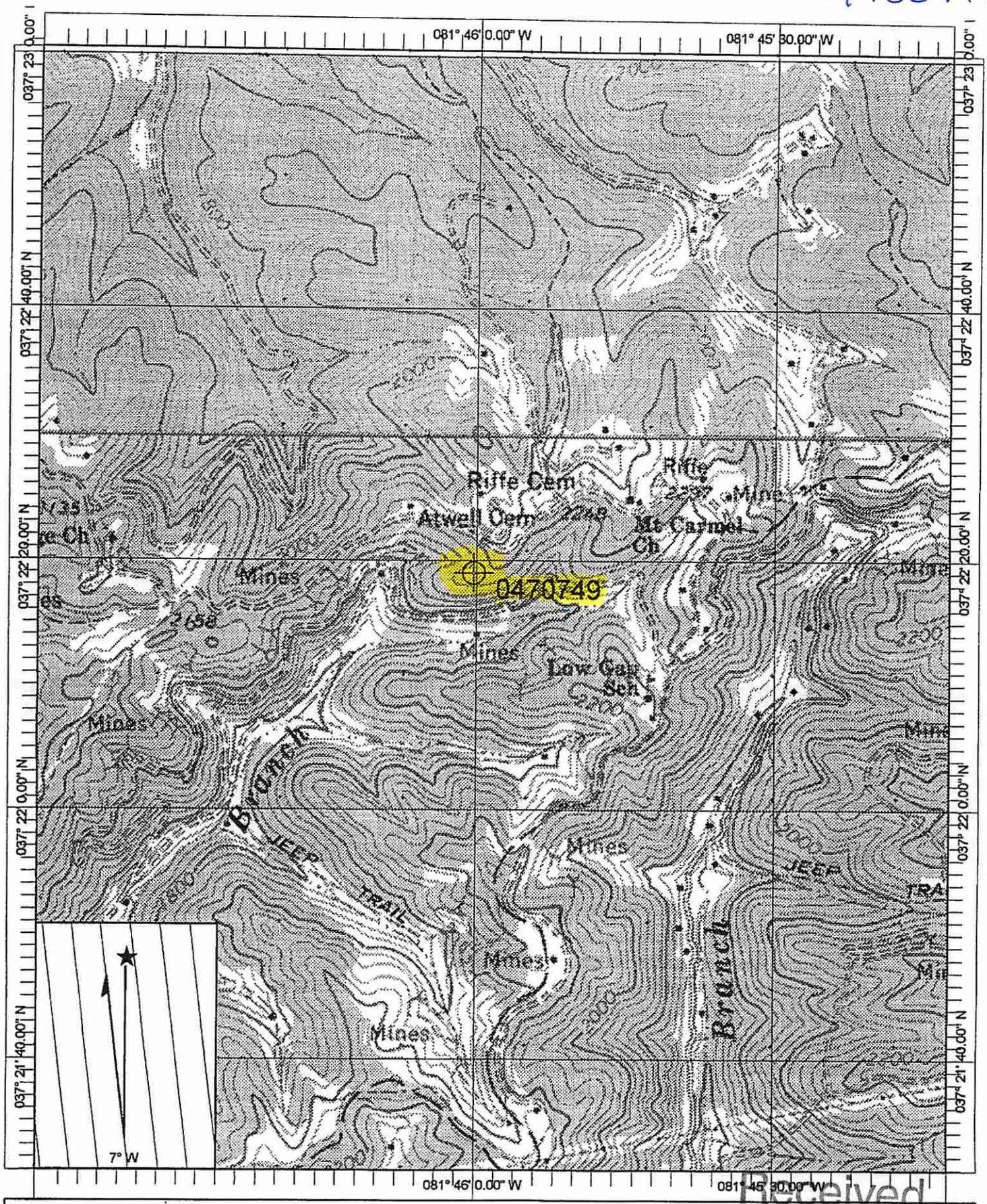
Title: Inspector Date: 11/7/14

Field Reviewed? (✓) Yes ( ) No

4700749P



Name: BRADSHAW
Date: 12/31/2014
Scale: 1 inch equals 1000 feet

Location: 037° 22' 15.7" N 081° 45' 58.4" W

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WV Dept. of Environmental Protection

47 00749 P

WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-047-0749 **WELL NO.:** #8

FARM NAME: Sarah E. Price

RESPONSIBLE PARTY NAME: Energy Development Corporation

COUNTY: McDowell **DISTRICT:** Sandy River

QUADRANGLE: Bradshaw

SURFACE OWNER: Sarah E. Price

ROYALTY OWNER: Leta Dotson Harman

UTM GPS NORTHING: 4136410.35

UTM GPS EASTING: 432118.18 **GPS ELEVATION:** 2176.6'

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 X : Post Processed Differential X

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.

W B Evans	President	12/31/14
Signature	Title	Date

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WV Dept. of Environmental Protection

4700749P

EDC OPERATING COMPANY

November 5, 2014

Gary Kennedy
P. O. Box 268
Nimitz, WV 25978

RE: Plugging Permit for EDC Well #8, API #47-047-0749

Dear Mr. Kennedy:

Enclosed please find completed plugging permit for the above-referenced.

Bill Evans hand carried the Surface Owner Waiver to Sarah Price, therefore the information wasn't mailed.

We are waiting for the Surface Owner Waiver from the President of Hall Mining for EDC Well #151 and Well #153. I will mail the permits when we receive the signed waiver.

If you should have any questions, please contact me.

Thank you for cooperation in this matter.

Sincerely,

Sandra Belcher

Sandra Belcher
Administrative Assistant

Enclosure

/skb

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NOV 20 2014

2280

MAIN OFFICE: 534 Virginia Ave., Suite 201 * P.O. Box 1049 * Bluefield, VA 24605 * 276/322-5437 * FAX 276/322-~~3174~~
FIELD OFFICE: 1703 Mountaineer Highway * Bradshaw, WV 24817 * 304/967-5531

EDC OPERATING COMPANY
Well Interest Listing
For Royalty Owners

Selection Criteria: Well ID: 0008 - 0008 in All Groups
Sort Order: Well ID

Well ID / Gas Interest	Well Name / Oil Interest	Other Interest	Working Interest	Trans	D O I D F I F T T P R H Status Program / Class 1	Class 2	Class 3	Class 4	Class 5	Before Casing Point	After Casing Point	Misc Rev 1	Misc Rev 2	After Payout
0008	**J. N. Harman #1**													
L0049	**Leta Dotson Harman**			**M R B N N N A**			**2811 Taylor Drive**				**Wooster, OH 44691**			
											234-40-9510		**330-345-9888**	
14.0625000	14.0625000	0.0000000		0.0000000	14.0625000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
14.0625000	14.0625000	0.0000000	0	0.0000000	14.0625000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Legend: ***Owner Types*** R = Royalty Owner; O = Override Royalty; W = Working Interest
Int Types O = Oil; G = Gas; B = Both Oil and Gas
Direct Pay O = Oil; G = Gas; N = None; B = Both
Flat Royalty Y = Yes; N = No
Disbursement Frequency M = Monthly; Q = Quarterly; S = Semi-Annually; A = Annually; ** = Joint Interest Bill; † = Owner on Hold

4700749