



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 11, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2102502, issued to EQT PRODUCTION COMPANY, 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 penalties 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: 6-1792
Farm Name: DESPARD, BURTON M. ESTATE
API Well Number: 47-2102502
Permit Type: Plugging
Date Issued: 02/11/2014

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

2102502A

CK 17256
100.00

Form WW-4 (B)
Permit Copy
(Rev 2/01)

Date: January 23, 2014
Operator's Well _____
Well No. 656971 Despard No 6-1792
API Well No.: 47 021 - 02502

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil _____ Gas X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X _____ Or Underground storage _____ Deep _____ Shallow X
- 5) Elevation: 1036 Watershed: Big Run of Little Kanawha River
Location: DeKalb County: Gilmer Quadrangle: Glenville 7.5'
District: _____
- 6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) Oil & Gas Bryan Harris 9) Plugging Contractor:
Name: P.O. Box 157 Name: HydroCarbon Well Service
Address: Volga, WV 26238 Address: PO BOX 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

*Attempt to pull all casing
plug across casing cuts
Tag all plugs*

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Office of Oil and Gas
FEB 04 2014
WV
Environmental

OFFICE USE ONLY

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

Work order approved by inspector *[Signature]* Date 2-3-14

02/14/2014

PLUGGING PROGNOSIS - Weston

Despard # 1792 (656971)

GILMER, County, WV
 API # 47-021-02502
 Center District

BY: Craig Duckworth
 DATE: 11/12/13

CURRENT STATUS:

9 5/8" csg @ 252' (100 sks cement)
 4 1/2" csg @ 1921' (100 sks cement)

TD @ 1938'

Fresh Water @ none reported Salt Water @ None reported
 1st Salt Sand @ 1067' Coal @ None reported
 Gas shows @ Big Injun 1801'-1863'
 Oil Shows @ None Reported
 Stimulation: Fractured Perfs. @ 1838'-1850' Big Injun

1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
2. TIH w/ tbg @ 1838'; Set 100' C1A Cement Plug @ 1838' to 1738' (Perfs @ 1838'-1850' Injun)
3. TOOH w/ tbg, Free Point 4 1/2", cut 4 1/2" @ free point, TOOH w/ 4 1/2" csg
4. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 4 1/2" cut. Do not omit any plugs.
5. TIH w/ tbg @ 1500'; Set 100' C1A Cement Plug @ 1500' to 1400'
6. TOOH w/ tbg @ 1400; gel hole @ 1400' to 1067'.
7. TOOH w/ tbg @ 1067'; Set 100' C1A Cement Plug @ 1067' to 967' (Salt Sand @ 1067')
8. TOOH w/ tbg @ 967'; gel hole @ 967' to 500'
9. TOOH w/ tbg @ 500'; Set 100' C1A Cement Plug @ 500' to 400' (Safety Plug)
10. TOOH w/ tbg @ 400'; gel hole @ 400' to 300'
11. TOOH w/ tbg @ 300'; Set 300' C1A Cement Plug @ 300' to 0 (Surface)
12. Top off as needed
13. Set Monument to WV-DEP Specifications
14. Reclaim Location & Road to WV-DEP Specifications

6% BENTONITE (BY WEIGHT) MIXED WITH
 FRESH WATER TO BE USED AS A GEL
 SPACER BETWEEN ALL CEMENT PLUGS.

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 Office of Oil and Gas
 JAN 28 2014
 WV Department of
 Environmental Protection



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APR 16 1975

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 3

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

Quadrangle Glenville H. E. 2

Permit No. 311-2502

Company Jennoni Natural Gas Company
Address 3904 Main Street, Monhall, Pa.
Farm Dutton M. Despard Acres 433
Location (waters) Grandcamp Run, Cedar Creek
Well No. 6-1792 Elev. 1052'
District Center County Gilmer
The surface of tract is owned in fee by Jack James

Address Glenville, W. Va. 26351
Mineral rights are owned by Parkersburg Nat. Bank, Exec. & Tr. under will of C.S. Despard, decd.
Address Parkersburg, W. Va. 26101
Drilling Commenced 10/13/74
Drilling Completed After Trac. 10/24/74
Initial open flow _____ cu. ft. _____ bbls.
Final production 1,205,000 cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	252'	252'	100 sacks
8 5/8			
7			
5 1/2			
4 1/2	1921'	1921'	100 sacks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well fractured 10/24/74 by Dowell with 32,000 sand, 638 bbls water @ 1000 - 1. acid in one zone Big Injun.

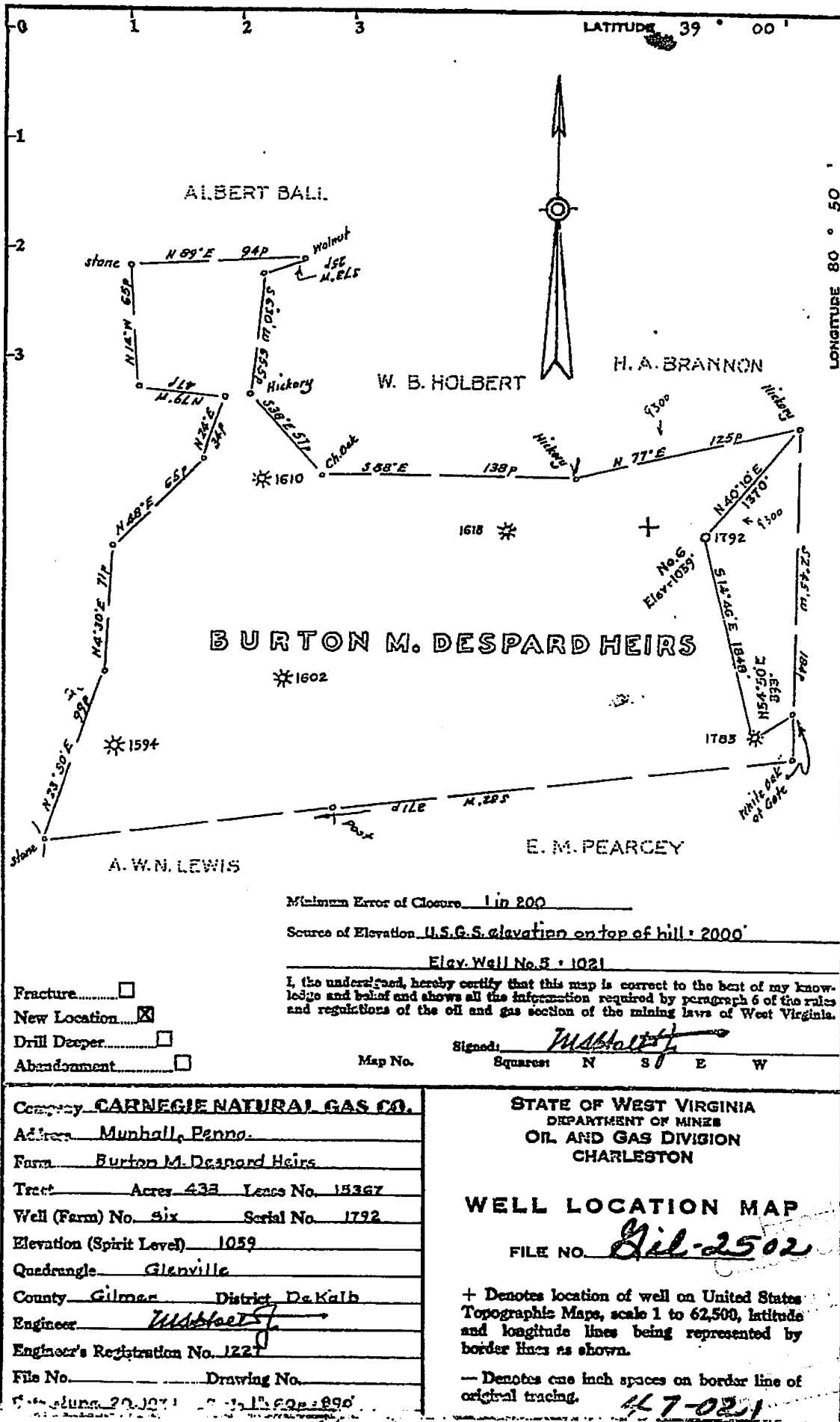
Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1338-50

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock			0	10		
Sand			10	30		
Red Rock			30	45		
Sand & Shale			45	85		
Sand			85	180		
Sandy Shale			180	200		
Sand			200	234		
Red Rock			234	240		
Shale			240	245		
Sand			245	263		
Shale			263	310		
Sandy Shale			310	335		
Shale & Red Rock			335	380		
Sand			380	390		
Sandy Shale			390	470		
Shale			470	576		
Sand			576	590		
Shale			590	622		
Sand			622	659		
Shale			659	690		
Sand			690	720		
Sandy Shale			720	747		
Shale			747	792		

(over)

* Indicates Electric Log tops in the remarks section.

RECEIVED
OIL & GAS DIVISION
DEPT. OF MINES
APR 16 1975



Minimum Error of Closure 1 in 200
 Source of Elevation U.S.G.S. elevation on top of hill - 2000'
Elev. Well No. 5 - 1021

Fracture.....
 New Location.....
 Drill Deeper.....
 Abandonment.....

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.

Signed: M. H. Holtz
 Squares: N S E W

Company CARNEGIE NATURAL GAS CO.
 Address Munhall, Penno.
 Farm Burton M. Despard Heirs
 Tract Acres 438 Lease No. 15367
 Well (Farm) No. six Serial No. 1792
 Elevation (Spirit Level) 1059
 Quadrangle Glenville
 County Gilmer District DeKalb
 Engineer M. H. Holtz
 Engineer's Registration No. 1221
 File No. _____ Drawing No. _____

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

WELL LOCATION MAP
 FILE NO. Gil-2502

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

47-021

WW-4-A
Revised 6/07

- 1) Date: January 23, 2014
- 2) Operator's Well Number
656971 Despard No 6-1792
- 3) API Well No.: 47 021 - 02502
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Security National Trust Co</u> ✓ Address <u>Corp Trustee of the Ernest L Arbuckle Family Trust</u> <u>1300 Chapline St</u> <u>Wheeling, WV 26303</u></p> <p>(b) Name <u>Helen James</u> ✓ Address <u>P.O. Box 411</u> <u>Glennville, WV 26351</u></p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator: Name <u>None</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration ✓ Name <u>Diana Goff Cather C Trust</u> <u>H Dotson Cather Trustee</u> Address <u>315 Spring Ave</u> <u>Clarksburg, WV 26301-3150</u> Name _____ Address <u>SEE ATTACHED</u></p> <p>(c) Coal Lessee with Declaration Name _____ Address _____</p>
<p>6) Inspector <u>Bryan Harris</u> Address <u>P.O. Box 157</u> <u>Volga, WV 26238</u> Telephone <u>304.553.6087</u></p>	

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 Division 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.

Well Operator: _____
 OFFICIAL SEAL
 STATE OF WEST VIRGINIA
NOTARY PUBLIC
 Pamela Sykes
 EQT Production
 PO Box 280
 Bridgeport, WV 26330
 My Commission Expires Aug. 24, 2022

Subscribed and sworn before me this 23 day of January, 2014
Pamela Sykes
 My Commission Expires: 8-24-22

EQT Production Company
Victoria J. Roark
Permitting Supervisor
PO Box 280
Bridgeport, WV 26330
(304) 848-0076

Notary Public

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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 depprivacyofficer@wv.gov.

WW2-A

Additional Coal Owners:

Diana Bickel ✓
3131 Rock Spring Road
Charlotte, NC 28226-7340

Emily Bukey Schneider ✓
425 Glencrest Dr
Solana Beach, CA 92075

Goff Properties, LLC ✓
C/O Payton Fireman
1380 Fenwick Ave
Morgantown, WV 26505-2165

Trustees of the Episcopal Diocese of WV
United Bank Trust Operations ✓
514 Market Street
Parkersburg, WV 26201-1508

Louise R Marthens ✓
4550 N Park Ave
Chevy Chase MD 20815

Trustees of Trinity Episcopal Church
United Bank Advisory Account ✓
Attn: Trust Operations
514 Market St
Parkersburg, WV 26102-1508

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Office of Oil and Gas
JAN 8 8 2014
U.S. Department of
Environmental Protection

02/14/2014

2) Operator's Well Number
656971 Despard No 6-1792

3) API Well No.: 47 021 - 02502

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name: EQT PRODUCTION COMPANY OP ID: _____

Watershed: Big Run of Little Kanawha River Quadrangle: Glennville 7.5'

Elevation: 1036 County: Gilmer District: DeKalb

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes___ No X

Will synthetic liner be used in the pit? Yes Is so, what ml.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:

- X Land Application
- _____ Underground Injection - UIC Permit Number _____
- _____ Reuse (at API Number) _____
- _____ Offsite Disposal Permit #. _____
- _____ Other: Explain _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____
If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____
Landfill or offsite name/permit number? _____

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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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 _____ *[Signature]*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 23 day of January, 2014

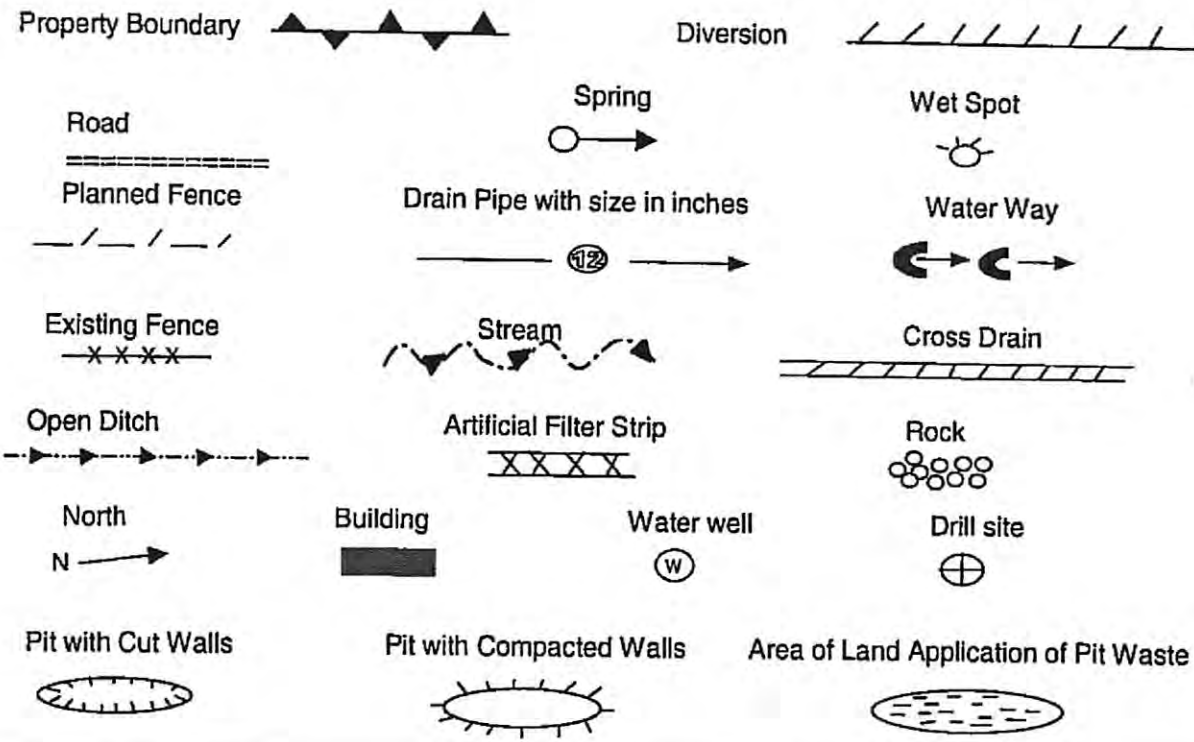
[Signature] _____ Notary Public
My Commission Expires 8-24-22

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
507 Production
PO Box 266
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

02/14/2014

OPERATOR'S WELL NO.:
656971 Despard No 6-1792

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

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 2 Tons/acre or hydroseed.

SEED MIXTURES

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

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ATTACH:

Drawing(s) of road, location, pit and proposed area for land application.
 Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Bryan O. Hanna

Comments: _____

FEB 04 2014
 WV Department of Environmental Protection

Title: Oil & Gas Inspector Date: 2-3-14
 Field Reviewed? Yes X No

Topo Quad: Glenville 7.5'

Scale: 1" = 2000' 2102502P

County: Gilmer

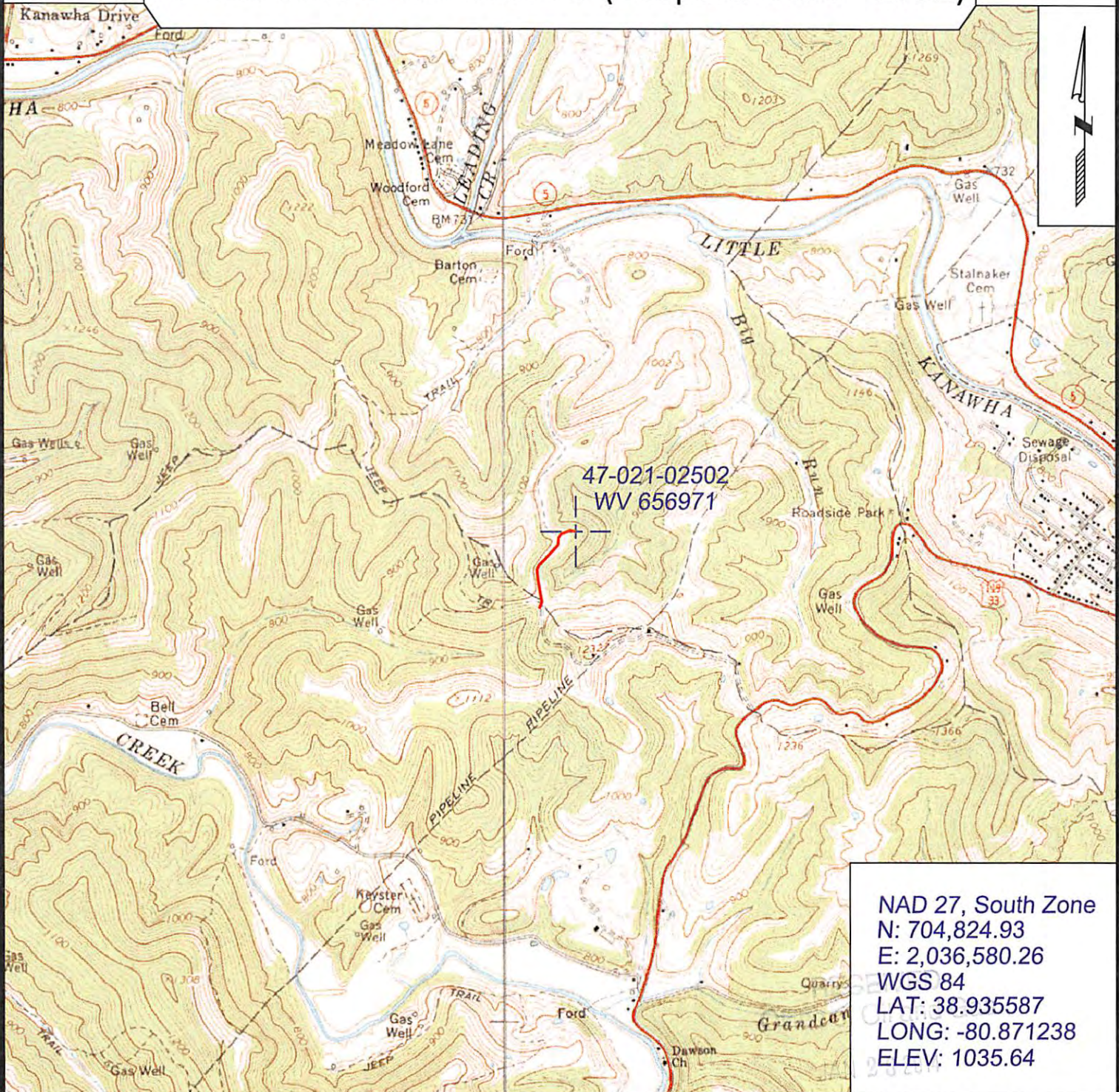
Date: December 19, 2013

District: Center

Project No: 25-19-00-07

47-021-02502 WV 656971 (Despard No. 6 - 1792)

Topo



NAD 27, South Zone
 N: 704,824.93
 E: 2,036,580.26
 WGS 84
 LAT: 38.935587
 LONG: -80.871238
 ELEV: 1035.64



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

02/14/2014

WW-7
8-30-06



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

API: 47-021-02502 WELL NO.: WV 656971 (Despard No. 6 - 1792).

FARM NAME: Burton M. Despard Estate

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Center

QUADRANGLE: Glenville 7.5'

SURFACE OWNER: Helen James

ROYALTY OWNER: Carnegie Natural Gas Company, et al.

UTM GPS NORTHING: 4309637

UTM GPS EASTING: 511160 GPS ELEVATION: 315 m (1036 ft)

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.

Stacy O'Brien
Signature
1/6/14
Date

PS # 2180
Title

Stamp: Environmental Protection
Date: 02/14/2014



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Despard No. 6 - 1792 WV 656971 API No. 47-021-02502

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 656971.

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Office of Oil and Gas

JAN 28 2014

BIRCH RIVER OFFICE
 P.O. Box 438 • 237 Birch River Road
 Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
 172 Thompson Drive
 Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

CALDWELL OFFICE
 212 Cumberland Street
 Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

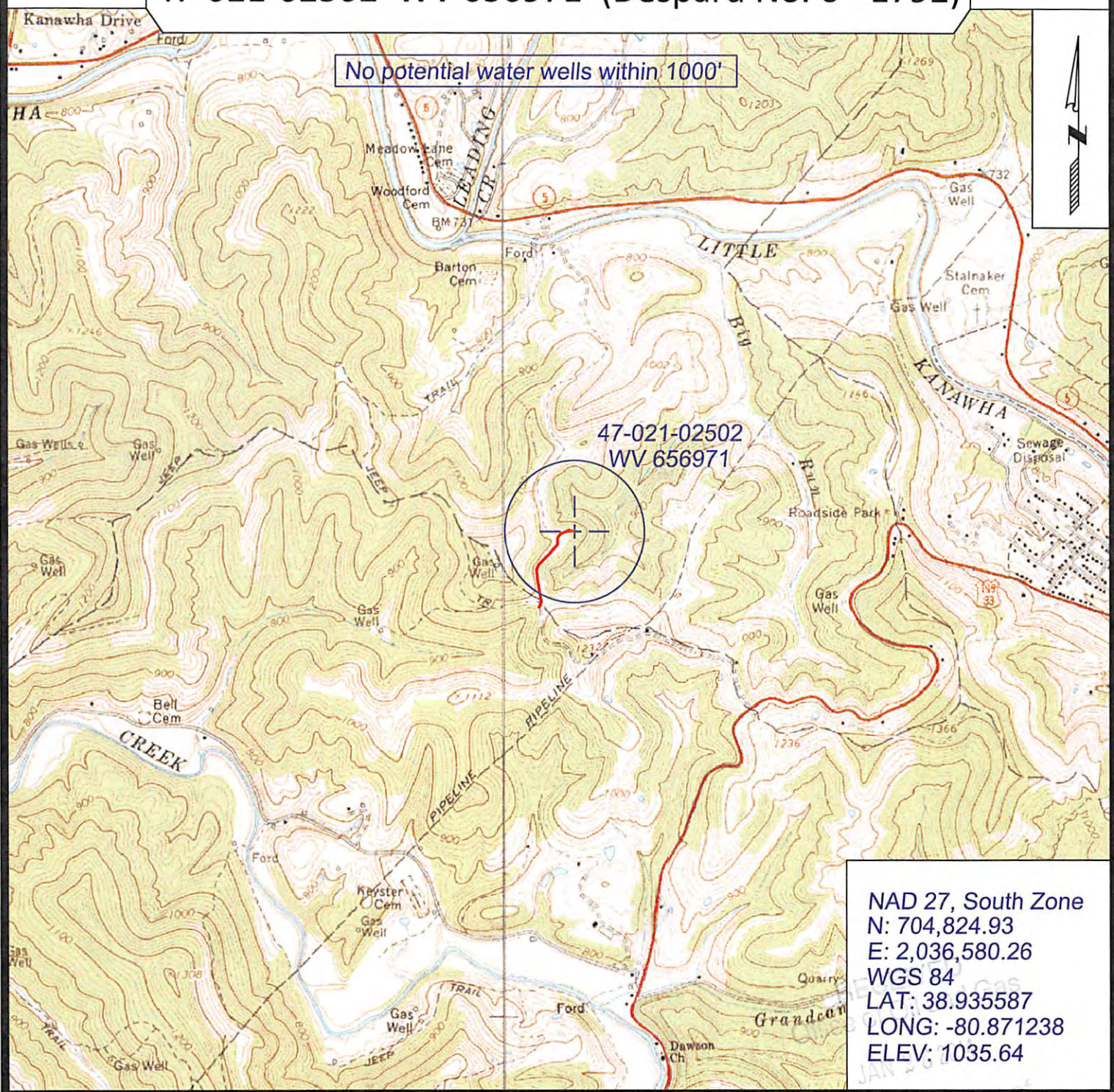
ALUM CREEK OFFICE
 P.O. Box 108 • 1413 Childress Road
 Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

Topo Quad: Glenville 7.5' Scale: 1" = 2000'
 County: Gilmer Date: December 19, 2013
 District: Center Project No: 25-19-00-07

Water

47-021-02502 WV 656971 (Despard No. 6 - 1792)

No potential water wells within 1000'



47-021-02502
WV 656971

NAD 27, South Zone
 N: 704,824.93
 E: 2,036,580.26
 WGS 84
 LAT: 38.935587
 LONG: -80.871238
 ELEV: 1035.64



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