



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

PERMIT MODIFICATION APPROVAL

January 19, 2016

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE
BRIDGEPORT, WV 26330

Re: Permit Modification Approval for API Number 8510219, Well #: 515883

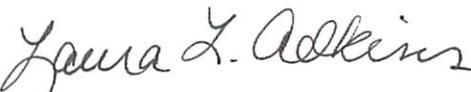
Lateral path, SSP, Casing

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,


for Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

Promoting a healthy environment.

4708510219
STATE OF WEST VIRGINIA

**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION**

1) Well Operator: EQT Production Company
Operator ID 306686 County 085 District 2 Quadrangle 562

2) Operator's Well Number: 515883 Well Pad Name PUL96

3) Farm Name/Surface Owner: Wilson Public Road Access: 12/3

4) Elevation, current ground: 1,194.0 Elevation, proposed post-construction: 1,182.0

5) Well Type: (a) Gas Oil Underground Storage
Other _____

(b) If Gas: Shallow Deep
Horizontal

6) Existing Pad? Yes or No: No

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):
Target formation is Marcellus at a depth of 6417 with the anticipated thickness to be 50 feet and anticipated target pressure of 2190 PSI
Top of Marcellus: 6397

8) Proposed Total Vertical Depth: 6417

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15180

11) Proposed Horizontal Leg Length: 7542

12) Approximate Fresh Water Strata Depths: 342,368,399,556, ,

13) Method to Determine Fresh Water Depth: By offset wells

14) Approximate Saltwater Depths: None found in offset well reports

15) Approximate Coal Seam Depths: None found

16) Approximate Depth to Possible Void (coal mine, karst, other): None reported

17) Does proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No x

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

Michael Jeff
12-2-15

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Environmental Protection

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CASING AND TUBING PROGRAM

18)

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: for Drilling | INTERVALS: Left in Well | CEMENT: Fill- up (Cu.Ft.) |
|--------------|-----------|-------------|-------|------------------------|-----------------------|-------------------------|--|
| Conductor | 20 | New | A-500 | 78.6 | 40 | 40 | 60 C.T.S. |
| Fresh Water | 13 3/8 | New | J-55 | 54.5 | 656 | 656 | 623 C.T.S. |
| Coal | - | - | - | - | - | - | |
| Intermediate | 9 5/8 | New | A-500 | 40 | 2,567 | 2,567 | 1,011 C.T.S. |
| Production | 5 1/2 | New | P-110 | 20 | 15,180 | 15,180 | See Note 1 |
| Tubing | 2 3/8 | | J-55 | 4.6 | | | May not be run, if run will be set 100' less than TD |
| Liners | | | | | | | |

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12-2-15

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|------------------------|---------------------|----------------------|--|--------------|--------------------------|
| Conductor | 20 | 26 | 0.375 | - | 18 | Construction | 1.18 |
| Fresh Water | 13 3/8 | 17 1/2 | 0.38 | 2,730 | 2,184 | * See Note 2 | 1.19 |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | 12 3/8 | 0.395 | 3,950 | 3,160 | * See Note 2 | 1.19 |
| Production | 5 1/2 | 8 1/2 | 0.361 | 12,640 | 10,112 | - | 1.07/1.86 |
| Tubing | | | | | | | |
| Liners | | | | | | | |

Packers

| | | | | |
|-------------|-----|--|--|--|
| Kind: | N/A | | | |
| Sizes: | N/A | | | |
| Depths Set: | N/A | | | |

Note 1: EQT plans to bring the TOC on the production casing cement job 500' above the top producing zone.

Note 2: Reference Variance 2014-17. (Attached)

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 3057'.

Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):

28.99

22) Area to be disturbed for well pad only, less access road (acres):

6.48

23) Describe centralizer placement for each casing string.

- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One cent at the shoe and one spaced every 500'.
- Production: One spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type.

Surface (Type 1 Cement): 0-3% Calcium Chloride

Used to speed the setting of cement slurries.

0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.

Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

Production:

Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time)

.15% SEC-10 (fluid loss) 50:50 POZ (extender)

Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss)

.2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation.

60 % Calcuim Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures. **Surface:** Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating

one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5

minutes. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at

surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance

hole cleaning use a soap sweep or increase injection rate & foam concentration.

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across

the shakers every 15 minutes.

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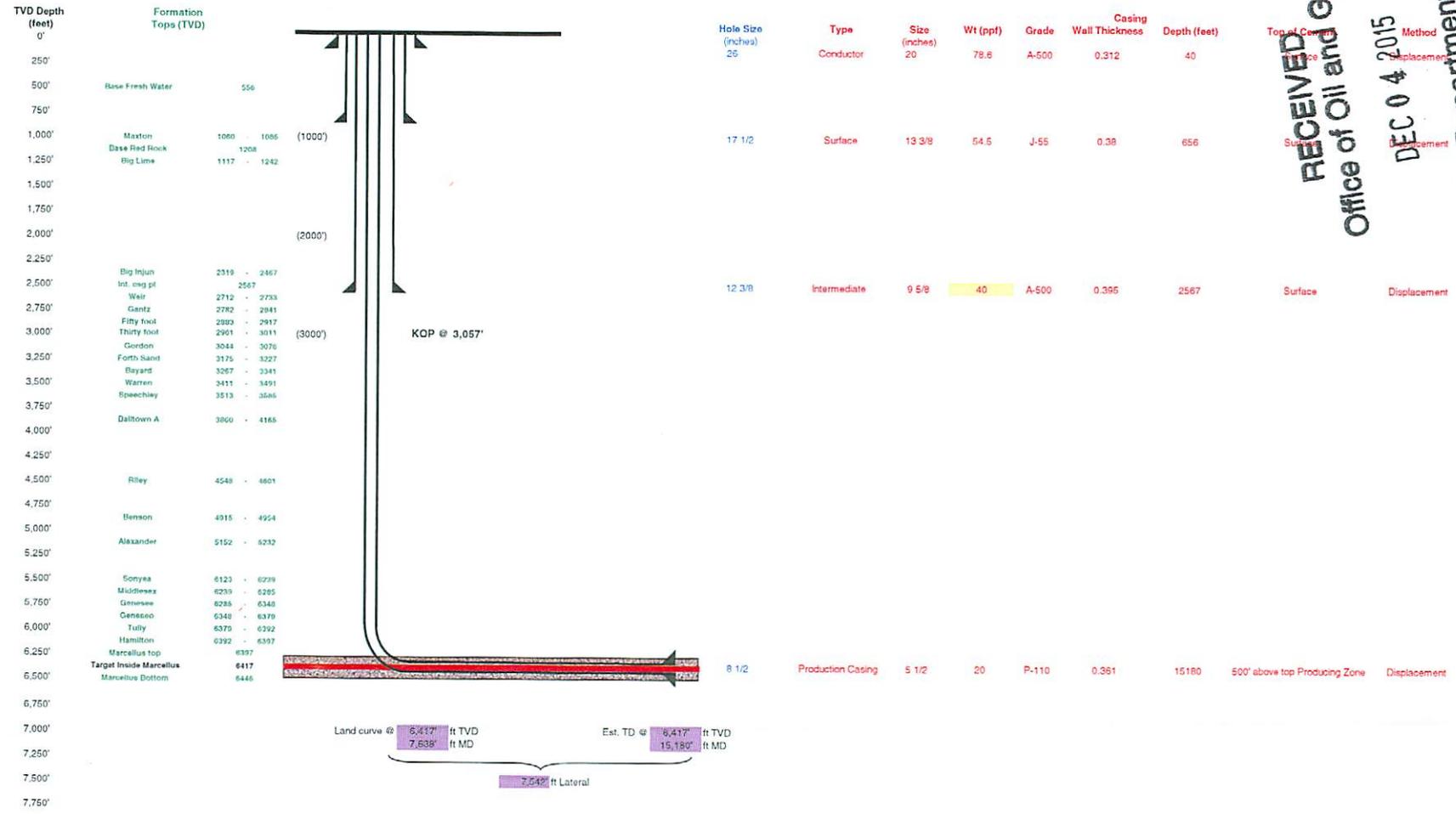
WV Department of
Environmental Protection

*Note: Attach additional sheets as needed.

MAG
12-2-15

Well 515883(PUL96H1)
EQT Production
Pullman
Ritchie West Virginia

Pad Name
Azimuth 164.75
Vertical Section 6752



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Method
Displacement
WV Department of
Environmental Protection

Proposed Well Work:
Drill and complete a new horizontal well in the Marcellus formation.
Drill the vertical to an approximate depth of 3057'.
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.



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March 18, 2014

Nabors Completion & Production Services Company
1380 Route 286 Hwy E #121
Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

- Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

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**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

IN THE MATTER OF A VARIANCE FROM) ORDER NO. 2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)
THE OPERATIONAL)
REGULATIONS OF CEMENTING OIL)
AND GAS WELLS)

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
- 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- 2.) Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24 hours.

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CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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WV Department of
Environmental Protection

Site Specific Safety Plan

EQT PUL96 Pad

Pullman
Ritchie County, WV

515883

For Wells:

Date Prepared:

November 24, 2015

[Signature]

EQT Production

[Signature]
Permitting Supervisor

Title

Date

11-25-15

[Signature]
Michael Hoff

WV Oil and Gas Inspector

Title

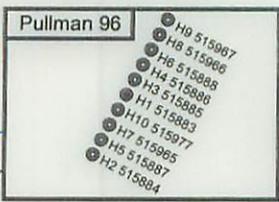
Date

12-2-15
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Office of Oil and Gas
DEC 04 2015
WV Department of
Environmental Protection

WV 515883
EQT Production Company
Laurie Ann Haddox, et al
360 Acres

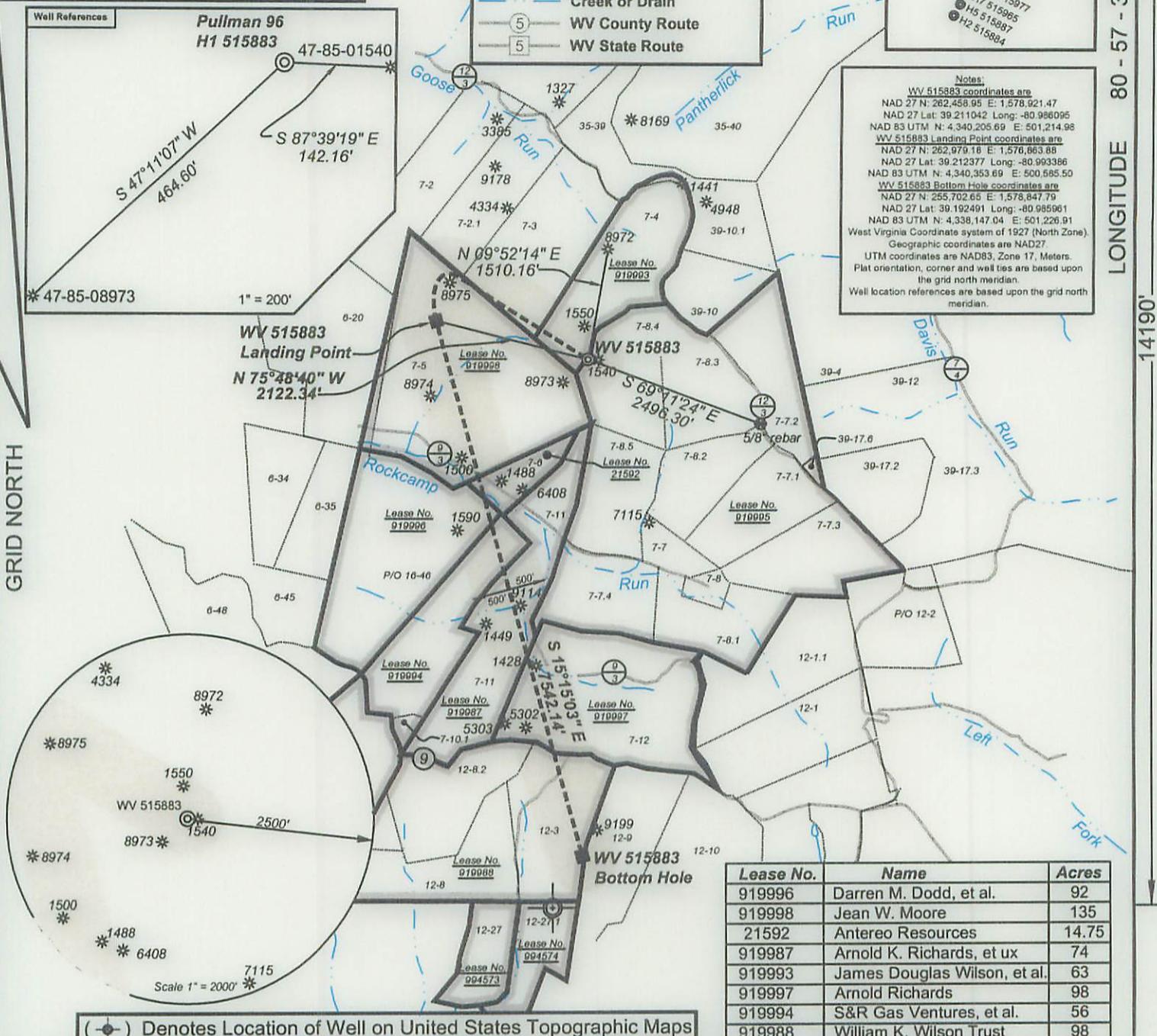
- ⊙ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⑤ WV County Route
- ⑤ WV State Route

LATITUDE 39 - 15 - 00
 LONGITUDE 80 - 57 - 30

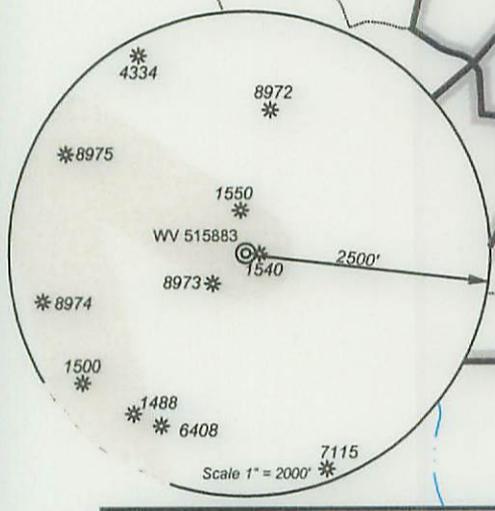


Notes:
 WV 515883 coordinates are
 NAD 27 N: 262,458.95 E: 1,578,921.47
 NAD 27 Lat: 39 21'10.42" Long: -80 98'00.95"
 NAD 83 UTM N: 4,340,205.69 E: 501,214.98
 WV 515883 Landing Point coordinates are
 NAD 27 N: 262,979.18 E: 1,578,863.85
 NAD 27 Lat: 39 21'37.7" Long: -80 98'33.66"
 NAD 83 UTM N: 4,340,353.69 E: 500,685.50
 WV 515883 Bottom Hole coordinates are
 NAD 27 N: 255,702.65 E: 1,578,847.79
 NAD 27 Lat: 39 19'24.91" Long: -80 98'59.61"
 NAD 83 UTM N: 4,338,147.04 E: 501,226.91
 West Virginia Coordinate system of 1927 (North Zone).
 Geographic coordinates are NAD27.
 UTM coordinates are NAD83, Zone 17, Meters.
 Plat orientation, corner and well ties are based upon the grid north meridian.
 Well location references are based upon the grid north meridian.

Well References
 Pullman 96
 H1 515883
 47-85-01540



GRID NORTH



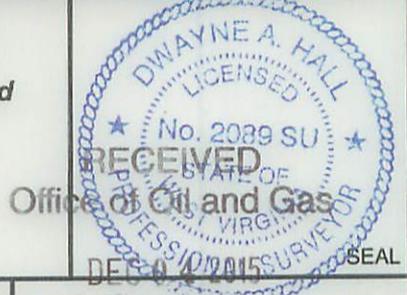
| Lease No. | Name | Acres |
|-----------|------------------------------|-------|
| 919996 | Darren M. Dodd, et al. | 92 |
| 919998 | Jean W. Moore | 135 |
| 21592 | Antereo Resources | 14.75 |
| 919987 | Arnold K. Richards, et ux | 74 |
| 919993 | James Douglas Wilson, et al. | 63 |
| 919997 | Arnold Richards | 98 |
| 919994 | S&R Gas Ventures, et al. | 56 |
| 919988 | William K. Wilson Trust | 98 |

(⊙) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat 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 Department of Environmental Protection.

Dwayne A. Hall
 P.S. 2089SU



FILE NO: 243-14
 DRAWING NO: 243-14 Pullman 96 H1.dwg
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: November 24 20 15
 WV Department of Environmental Protection
 OPERATOR'S WELL NO. 515883
 API WELL NO. 47 - 85 - 10219 H 6A
 STATE COUNTY PERMIT

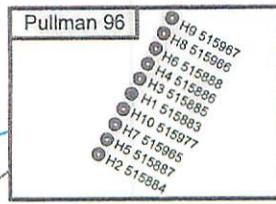
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Original: 1194' Proposed: 1182' WATERSHED Goose Run of Rockcamp Run QUADRANGLE: Pullman
 DISTRICT: Union COUNTY: Ritchie
 SURFACE OWNER: James H. & Wilma J. Wilson ACREAGE: 40.089
 ROYALTY OWNER: Laurie Ann Haddox, et al LEASE NO: 919995 ACREAGE: 360
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD 6,396
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
 ADDRESS: PO Box 280 / 115 Professional Place ADDRESS: PO Box 280 / 115 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330

WV 515883
EQT Production Company
Laurie Ann Haddox, et al
360 Acres

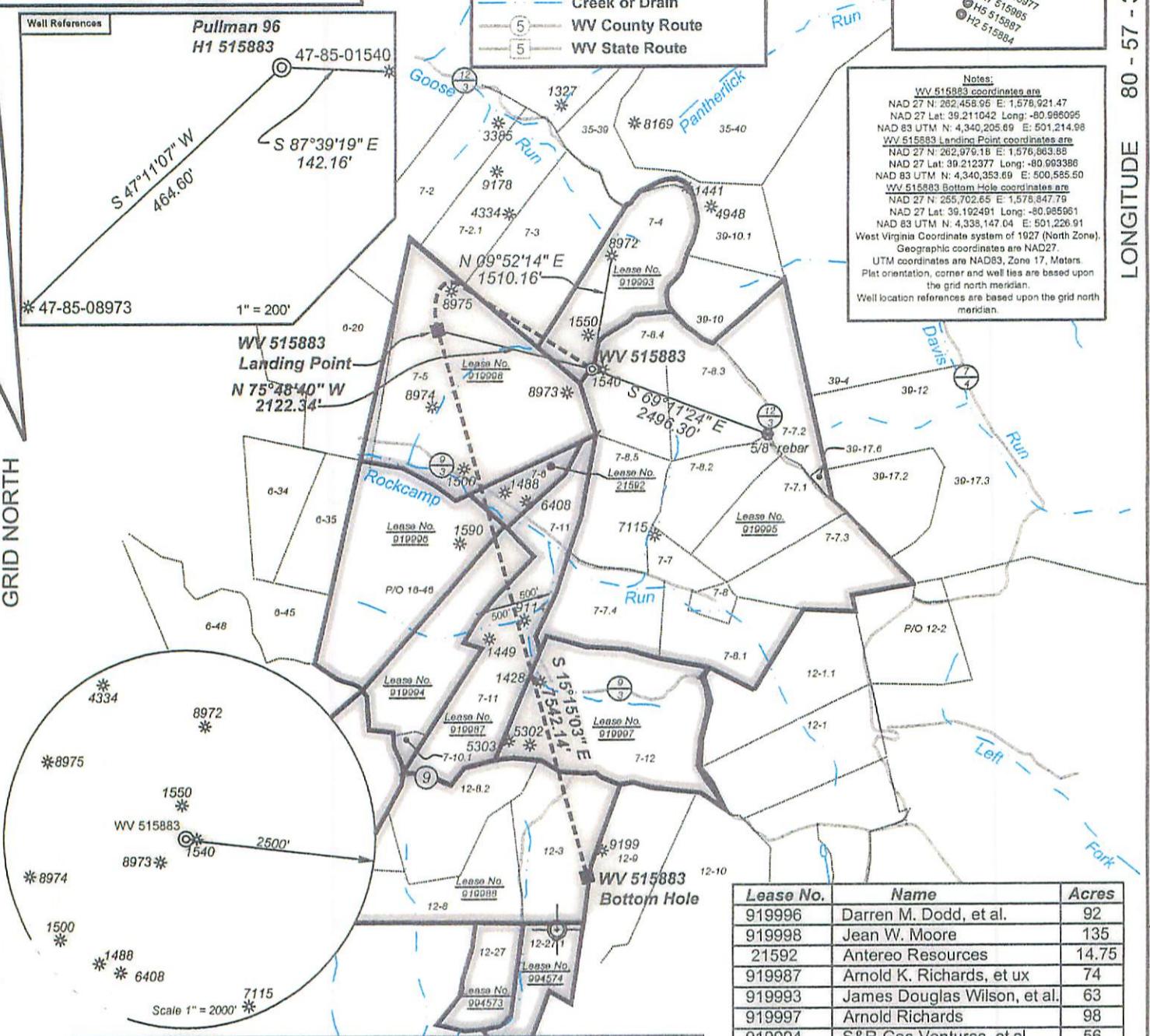
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- ⊙ Proposed Gas Well
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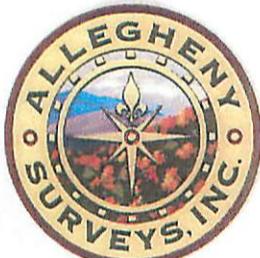


GRID NORTH

14190'

| Lease No. | Name | Acres |
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 DRAWING NO: 243-14 Pullman 96 H1.dwg
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 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: November 24, 2015
 WV Department of Environmental Protection
 OPERATOR'S WELL NO. 515883
 API WELL NO. 47 - 85 - 10219
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Original: 1194' Proposed: 1182' WATERSHED Goose Run of Rockcamp Run QUADRANGLE: Pullman
 DISTRICT: Union COUNTY: Ritchie
 SURFACE OWNER: James H. & Wilma J. Wilson ACREAGE: 40.089
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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,396

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
 ADDRESS: PO Box 280 / 115 Professional Place ADDRESS: PO Box 280 / 115 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330

MAG 12-2-15

H6A MOD

919996

| | | | |
|-----------------------------------|-----------------------------------|------------|-----------|
| | | Min 1/8 pd | |
| Ruby Dotson, et al | J. E. Richards | | LB80/449 |
| J. E. Richards | J. E. Richards and C. W. Richards | | LB80/455 |
| J. E. Richards and C. W. Richards | Applied Mechanics, et al | | LB206/8 |
| Applied Mechanics, et al | FS Limited Partnership | | AB274/80 |
| FS Limited Partnership | EQT Production Co. | | AB274/102 |

21592

| | | | |
|------------------------|--------------------------------------|------------|-----------|
| | | Min 1/8 pd | |
| Lillie McDonald, et al | Shenandoah Energy Co. | | LB148/765 |
| Shenandoah Energy Co. | Gene Stalnaker | | LB152/486 |
| Gene Stalnaker | Angus Energy, Inc. | | LB212/137 |
| Angus Energy, Inc. | Stalnaker Energy Corp. (Name Change) | | CB6/225 |
| Stalnaker Energy Corp. | Antero Resources Corp. | | LB264/875 |
| Antero Resources Corp. | EQT Production Co. | | 286/990 |

919994

| | | | |
|-----------------------------------|-----------------------------------|------------|-----------|
| | | Min 1/8 pd | |
| Ethel M. Turner, widow | J. E. Richards | | LB80/451 |
| J. E. Richards | J. E. Richards and C. W. Richards | | LB80/455 |
| J. E. Richards and C. W. Richards | Applied Mechanics, et al | | LB206/8 |
| Applied Mechanics, et al | FS Limited Partnership | | AB274/80 |
| FS Limited Partnership | EQT Production Co. | | AB274/102 |

919987

| | | | |
|-----------------------------------|---|------------|-----------|
| | | Min 1/8 pd | |
| A. H. Hodge and Ona Hodge | J. E. Richards | | LB80/449 |
| J. E. Richards | J. E. Richards and C. W. Richards | | LB80/455 |
| J. E. Richards and C. W. Richards | Bolyard Oil & Gas, LTD | | LB169/310 |
| Bolyard Oil & Gas, LTD | Sheffield Exploration Co. | | LB189/521 |
| Sheffield Exploration Co. | M. S. Oil Co. (69.513% of working interest) and Applied Mechanics Corp. (30.487% of working interest) | | LB208/268 |
| M. S. Oil Co. (69.513%) | Applied Mechanics, et al | | LB222/836 |
| Applied Mechanics, et al | FS Limited Partnership | | AB274/80 |
| FS Limited Partnership | EQT Production Co. | | AB274/102 |

919997

| | | | |
|----------------------------------|-----------------------------------|------------|-----------|
| | | Min 1/8 pd | |
| Pearl Hutchinson, et al | J. E. Richards | | LB80/447 |
| J. E. Richards | J. E. Richards and C. W. Richards | | LB80/455 |
| J. E. Richards and C.W. Richards | Applied Mechanics, et al | | LB206/8 |
| Applied Mechanics, et al | FS Limited Partnership | | AB274/80 |
| FS Limited Partnership | EQT Production Co. | | AB274/102 |

919988

Min 1/8 pd

| | | |
|----------------------------------|-----------------------------------|-----------|
| Arden Wilson, et ux | J. E. Richards | LB81/515 |
| J. E. Richards | J. E. Richards and C. W. Richards | LB80/455 |
| J. E. Richards and C.W. Richards | Applied Mechanics, et al | LB206/8 |
| Applied Mechanics, et al | FS Limited Partnership | AB274/80 |
| FS Limited Partnership | EQT Production Co. | AB274/102 |

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company
 By: 
 Its: Permitting Supervisor

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MEMORANDUM OF
SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

1. NAME AND ADDRESS OF GRANTOR:

Virginia Annabelle Day, a/k/a Virginia Annabelle Wilson
4101 County Road 282
Auxvasse, Missouri 65231

TRICENTRAL RECORDS
RITCHIE COUNTY OFFICE OF
DEEDS AND RECORDS
DATE RECORDED 11/16/2015
RECORD # 15-0018
PAGE # 0002 OF 0002
BOOK # 340-501
RECORDED FOR \$10.00
FEE # 00000000000000000000

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company
625 Liberty Avenue
Suite 1700
Pittsburgh, PA 15222

3. SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT REFERENCE:

A SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT ("Agreement") dated the 2nd day of November, 2015, was entered into for good and valuable consideration by and between Virginia Annabelle Day, a/k/a Virginia Annabelle Wilson, a married woman dealing in her sole and separate property ("Grantor", whether one or more) and EQT Production Company ("Grantee"). Upon completion of any wellbore within the subsurface area underlying the Property (as defined in Section 4), this subsurface easement in the area of the wellbore and the one hundred (100') feet on each side of the wellbore that parallels it shall become an exclusive right of way and easement in that area. The final wellbore locations are as described in a final, as-built map(s) to be filed as a part of an affidavit in the aforesaid Clerk's Office following the completion of the following well(s) located on Grantee's PUL96 well pad. If an as-built map is not available for a wellbore within the subsurface area underlying the Property, any third-party with the right to operate within such area may contact Grantee's land department for a copy of such as-built map. Grantee shall provide notice of additional wellbores located within the subsurface area underlying the Property by filing an amendment, affidavit or other appropriate document.

4. DESCRIPTION OF PREMISES: That certain tract or parcel of land containing Sixty-One (61.0) acres, more or less, located Union District, in Ritchie County, West Virginia, being the same lands conveyed to Grantor by Deed dated the 18th day of September, 1952, of record in the Office of the Clerk of the County Commission of Ritchie County, West Virginia in **Deed Book 128**, at **Page 151**, and also by Deeds dated the 7th day of November, 2014 and the 5th day of October, 2015, recorded in the office of the Clerk of the County Commission of Ritchie County, West Virginia in **Deed Book 331**, at **Page 1081**, and **Deed Book 340**, at **Page 456**. ("the Property").

5. TERM: The Agreement shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing.

(REMAINDER OF PAGE LEFT BLANK INTENTIONALLY)

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IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR:

GRANTEE:

EQT Production Company

Virginia Annabelle Day
Virginia Annabelle Day, a/k/a
Virginia Annabelle Wilson

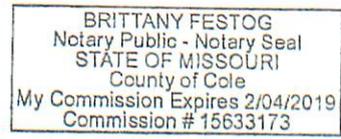
John W. Damato
By: John W. Damato
Its: Attorney in fact

STATE OF Missouri ;
COUNTY OF Boone ;

I, Brittany Festog, a Notary Public, in and for said State and County, do hereby certify that Virginia Day/Wilson, personally known to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be their free act and deeds for uses and purposes therein set forth.

Given under my hand this 02 day of November, 2015.

My Commission expires: 2-4-2019



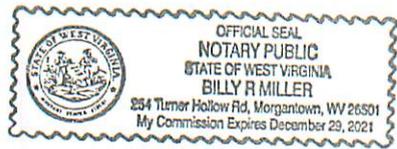
Brittany Festog
Notary Public

STATE OF WEST VIRGINIA;
COUNTY OF HARRISON:

I, Billy R. Miller, a Notary Public, in and for said State and County, do hereby certify that John W. Damato, personally known to be the same person whose name is subscribed to the foregoing instrument and the Attorney in fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be his free act and deed for uses and purposes therein set forth on behalf of said company.

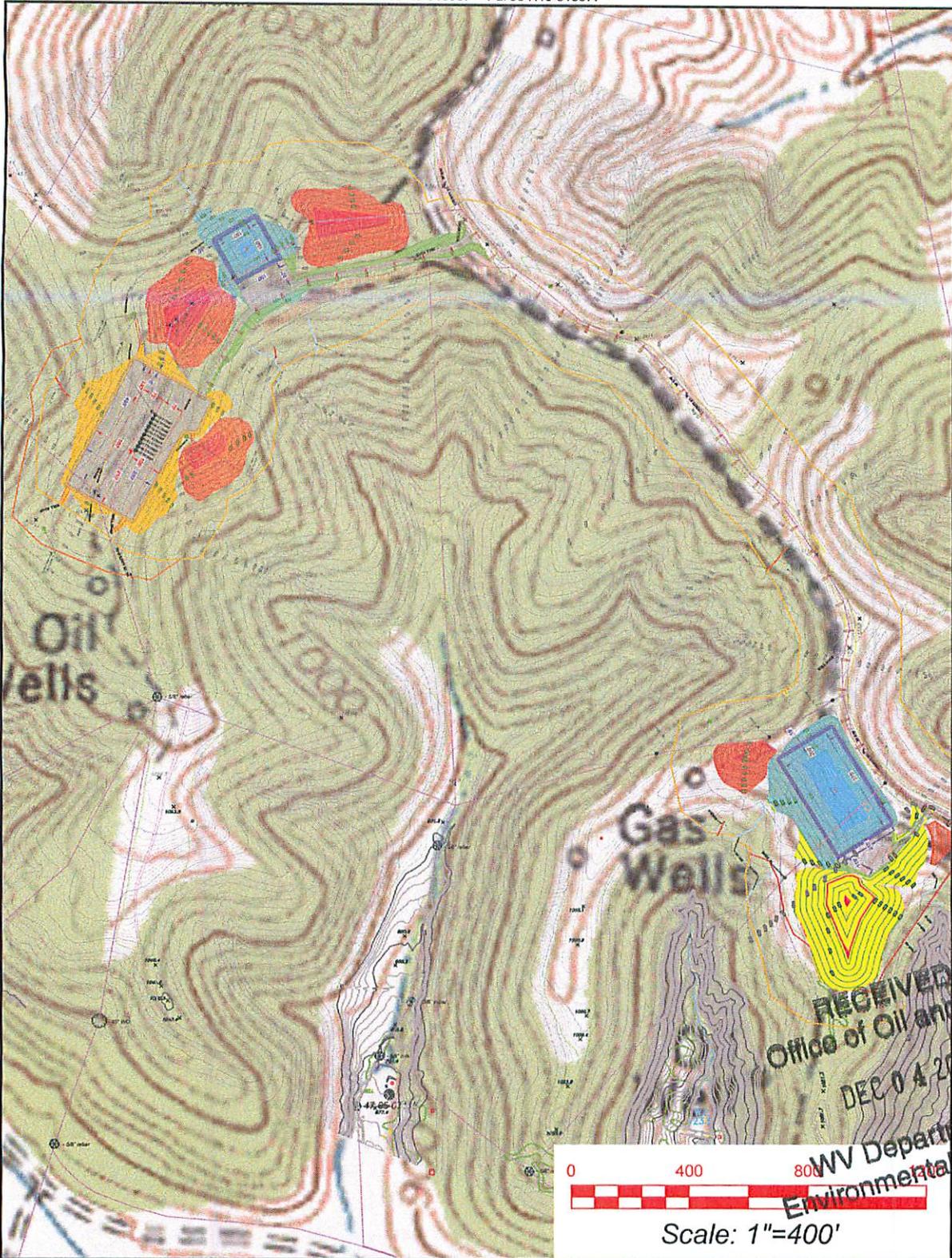
Given under my hand this 3rd day of November, 2015.

My Commission expires: December 29, 2021



Billy R. Miller
Notary Public

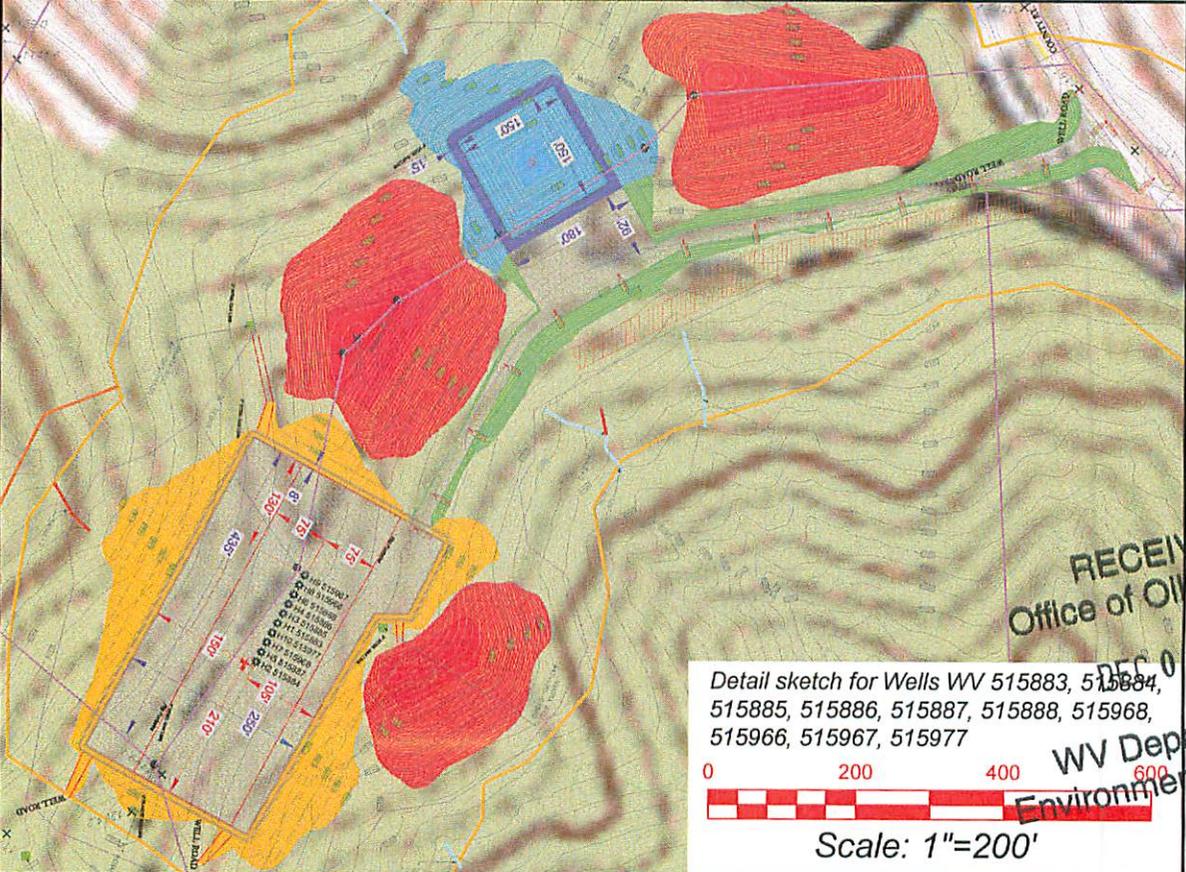
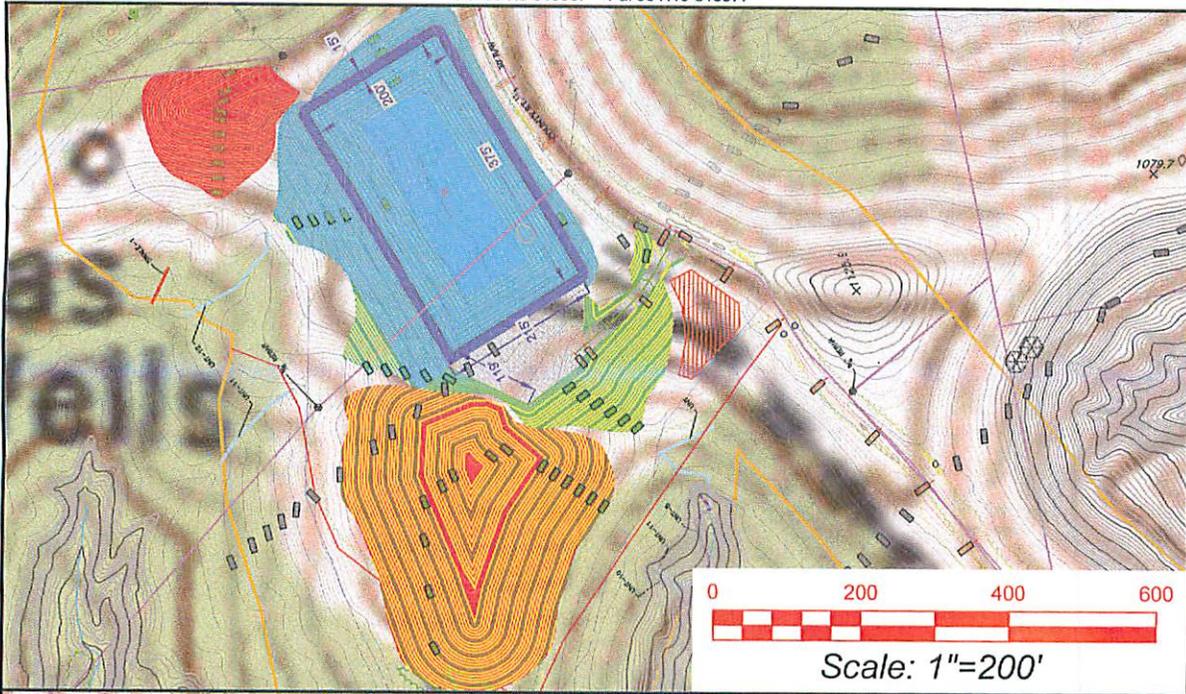
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|---|-------------------------|---|----------------------------------|---|
| Pullman 7.5' USGS QUADRANGLE | | Proposed Disturbance Area | | Note: SEE SITE PLAN OF PULLMAN 96 FOR COMPLETE GRADING & DRAINAGE CONSTRUCTION INCLUDING EROSION & SEDIMENT CONTROL DETAILS, ETC. |
| Projected culvert inventory. (for bid purposes only) | | Well Site Location | See Site Plan | |
| 15" minimum diameter culverts | See Site Plan | Proposed Access Road | See Site Plan | |
| 24" minimum diameter culverts | See Site Plan | Approximate Total Disturbance | See Site Plan | |
| DRAWN BY: Dale Tomlin PS | DATE: December 30, 2014 | FILE NO. 243-14 | DRAWING FILE NO. 243-14 Rec Plan | |
|  | | SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. 1-800-482-8606 Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 237 Birch River Road P.O. Box 438 Birch River, WV 26610 | | |

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Detail sketch for Wells WV 515883, 515884,
515885, 515886, 515887, 515888, 515966,
515967, 515977

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|---|-------------------------|--|----------------------------------|---|
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