

85-12-5 (10/07)

PAGE 1 OF 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MINERAL RESOURCES • BUREAU OF OIL AND GAS REGULATION



PRINT OR TYPE IN BLACK INK

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK OR CONVERT A WELL SUBJECT TO THE OIL, GAS AND SOLUTION MINING LAW

THIS APPLICATION IS A LEGAL DOCUMENT. READ THE APPLICABLE AFFIRMATION AND ACKNOWLEDGMENT CAREFULLY BEFORE SIGNING.
For instructions on completing this form, visit the Division's website at www.dec.ny.gov/energy/205.html or contact your local Regional office.

PLANNED OPERATION: (Check one) <input checked="" type="checkbox"/> Drill <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Convert																																																																												
TYPE OF WELL: (Check one) <input type="checkbox"/> New <input checked="" type="checkbox"/> Existing		Existing API Well Identification Number 31 0 1 5 2 6 0 2 0 0 0 0																																																																										
TYPE OF WELL BORE: (Check one) <input type="checkbox"/> Vertical <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal																																																																												
NAME OF OWNER (Full Name of Organization or Individual as registered with the Division) Chesapeake Appalachia, L.L.C.		TELEPHONE NUMBER (include area code) 304 353-5065																																																																										
ADDRESS (P.O. Box or Street Address, City, State, Zip Code) P.O. Box 6070, Charleston, WV 25362-0070																																																																												
NAME AND TITLE OF LOCAL REPRESENTATIVE WHO CAN BE CONTACTED WHILE OPERATIONS ARE IN PROGRESS Dan Lopata																																																																												
ADDRESS--Business (P.O. Box or Street Address, City, State, Zip Code) 202 IST Center, Horseheads, NY 14845		TELEPHONE NUMBER (include area code) 800 598-6757																																																																										
ADDRESS--Night, Weekend and Holiday (P.O. Box or Street Address, City, State, Zip Code) 3401 Esperanza Road, Bluff Point, NY 14478		TELEPHONE NUMBER (include area code) 315 729-2443																																																																										
WELL LOCATION DATA (attach plat)																																																																												
COUNTY Chemung	TOWN Erin	FIELD/POOL NAME (or "Wildcat") Landgon Hill																																																																										
WELL NAME Bartlett (626466)		WELL NUMBER 1A	NUMBER OF ACRES IN UNIT 640.09																																																																									
7½ MINUTE QUAD NAME Erin	QUAD SECTION H	PROPOSED TARGET FORMATION Marcellus																																																																										
LOCATION DESCRIPTION																																																																												
Surface 0' 0	Decimal Latitude (NAD83)		Decimal Longitude (NAD83)																																																																									
Top of Target Interval 3,580 3,613	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>4</td><td>2</td><td>.</td><td>1</td><td>4</td><td>1</td><td>6</td><td>8</td><td>0</td></tr> <tr><td>4</td><td>2</td><td>.</td><td>1</td><td>4</td><td>2</td><td>8</td><td>3</td><td>6</td></tr> <tr><td>4</td><td>2</td><td>.</td><td>1</td><td>5</td><td>0</td><td>7</td><td>0</td><td>4</td></tr> <tr><td>4</td><td>2</td><td>.</td><td>1</td><td>5</td><td>0</td><td>7</td><td>0</td><td>4</td></tr> </table>		4	2	.	1	4	1	6	8	0	4	2	.	1	4	2	8	3	6	4	2	.	1	5	0	7	0	4	4	2	.	1	5	0	7	0	4	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>7</td><td>6</td><td>.</td><td>6</td><td>8</td><td>5</td><td>2</td><td>2</td><td>4</td></tr> <tr><td>7</td><td>6</td><td>.</td><td>6</td><td>8</td><td>5</td><td>8</td><td>2</td><td>1</td></tr> <tr><td>7</td><td>6</td><td>.</td><td>6</td><td>8</td><td>9</td><td>6</td><td>3</td><td>8</td></tr> <tr><td>7</td><td>6</td><td>.</td><td>6</td><td>8</td><td>9</td><td>6</td><td>3</td><td>8</td></tr> </table>		7	6	.	6	8	5	2	2	4	7	6	.	6	8	5	8	2	1	7	6	.	6	8	9	6	3	8	7	6	.	6	8	9	6	3	8
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Bottom of Target Interval 3,738 4,019	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>4</td><td>2</td><td>.</td><td>1</td><td>5</td><td>0</td><td>7</td><td>0</td><td>4</td></tr> <tr><td>4</td><td>2</td><td>.</td><td>1</td><td>5</td><td>0</td><td>7</td><td>0</td><td>4</td></tr> </table>		4	2	.	1	5	0	7	0	4	4	2	.	1	5	0	7	0	4	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>7</td><td>6</td><td>.</td><td>6</td><td>8</td><td>9</td><td>6</td><td>3</td><td>8</td></tr> <tr><td>7</td><td>6</td><td>.</td><td>6</td><td>8</td><td>9</td><td>6</td><td>3</td><td>8</td></tr> </table>		7	6	.	6	8	9	6	3	8	7	6	.	6	8	9	6	3	8																																				
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TVD TMD																																																																												
PROPOSED WELL DATA																																																																												
WELL TYPE (check one) <input type="checkbox"/> Oil Production <input checked="" type="checkbox"/> Gas Production <input type="checkbox"/> Brine <input type="checkbox"/> Storage <input type="checkbox"/> Injection <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Geothermal <input type="checkbox"/> Stratigraphic <input type="checkbox"/> Other _____		PLANNED TOTAL DEPTH TVD 3,738 ft TMD 7,066 ft Kickoff 3,025 TMD																																																																										
SURFACE ELEVATION (check how obtained) 1,555 ft. <input checked="" type="checkbox"/> Surveyed <input type="checkbox"/> Topo Map <input type="checkbox"/> Other _____		PLANNED DATE OF COMMENCEMENT OF OPERATIONS April 1, 2008																																																																										
TYPE TOOLS <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Rotary		PLANNED DRILLING FLUID <input checked="" type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Mud																																																																										
NAME OF PLANNED DRILLING CONTRACTOR (as registered with the Division) Yost Drilling		TELEPHONE NUMBER (include area code) 724 324-2205																																																																										
ON ATTACHED SHEET GIVE DETAILS FOR EACH PROPOSED CASING STRING AND CEMENT JOB INCLUDING BUT NOT LIMITED TO: Bit size, casing size, casing weight and grade, TVD and TMD of casing set, scratchers, centralizers, cement baskets, sacks of cement, class of cement, cement additives with percentages or pounds per sack, estimated TVD and TMD of the top of cement, estimated amount of excess cement and waiting-on-cement time.																																																																												
FOR DIRECTIONAL OR SIDETRACK WELLS ALSO INCLUDE A WELL BORE DIAGRAM SHOWING THE LOCATION OF THE ITEMS INCLUDED IN THE ABOVE REFERENCED DETAILS.																																																																												
DEPARTMENT USE ONLY																																																																												
BOND NUMBER																																																																												
API WELL IDENTIFICATION NUMBER 31-																																																																												
RECEIPT NUMBER																																																																												
DATE ISSUED																																																																												

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK OR CONVERT

WELL NAME Bartlett (626466)	WELL NUMBER 1-A	NAME OF OWNER Chesapeake Appalachia, L.L.C.
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COMMENTS:

AFFIRMATION AND ACKNOWLEDGMENT

A. For use by individual:

By the act of signing this application:

- (1) I affirm under penalty that the information provided in this application is true to the best of my knowledge and belief; and that I possess the right to access property, and drill and/or extract oil, gas, or salt, by deed or lease, from the lands and site described in the well location data section of this application. I am aware that any false statement made in this application is punishable as a Class A Misdemeanor under Section 210.45 of the Penal Law.

- (2) I acknowledge that if the permit requested to be issued in consideration of the information and affirmations contained in this application is issued, as a condition to the issuance of that permit, I accept full legal responsibility for all damage, direct or indirect, of whatever nature and by whomever suffered, arising out of the activity conducted under authority of that permit; and agree to indemnify and hold harmless the State, its representatives, employees, agents, and assigns for all claims, suits, actions, damages, and costs of every name and description, arising out of or resulting from the permittee's undertaking of activities or operation and maintenance of the facility or facilities authorized by the permit in compliance or non-compliance with the terms and conditions of the permit.

Printed or Typed Name of Individual

Signature of Individual

Date

B. For use by organizations other than an individual:

By the act of signing this application:

- (1) I affirm under penalty of perjury that I am Director, Regulatory Compliance (title) of Chesapeake Appalachia, L.L.C. (organization); that I am authorized by that organization to make this application; that this application was prepared by me or under my supervision and direction; and that the aforementioned organization possesses the right to access property, and drill and/or extract oil, gas, or salt by deed or lease, from the lands and site described in the well location data section of this application. I am aware that any false statement made in this application is punishable as a Class A Misdemeanor under Section 210.45 of the Penal Law.

- (2) Chesapeake Appalachia, L.L.C. (organization); acknowledges that if the permit requested to be issued in consideration of the information and affirmations contained in this application is issued, as a condition to the issuance of that permit, it accepts full legal responsibility for all damage, direct or indirect, of whatever nature and by whomever suffered, arising out of the activity conducted under authority of that permit; and agrees to indemnify and hold harmless the State, its representatives, employees, agents, and assigns for all claims, from suits, actions, damages, and costs of every name and description, arising out of or resulting from the permittee's undertaking of activities or operation and maintenance of the facility or facilities authorized by the permit in compliance or non-compliance with the terms and conditions of the permit.

James E. Grey
Printed or Typed Name of Authorized Representative

James E. Grey
Signature of Authorized Representative

2/15/08
Date

85-16-5 (9/90)-10b



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 DIVISION OF MINERAL RESOURCES
ENVIRONMENTAL ASSESSMENT FORM

Attachment to Drilling Permit Application

WELL NAME AND NUMBER

BARTLETT #1 (626466)

NAME OF APPLICANT

CHESAPEAKE APPALACHIA, L.L.C.

BUSINESS TELEPHONE NUMBER

(304) 353-5000

ADDRESS OF APPLICANT

900 PENNSYLVANIA AVE.

CITY/P.O.

CHARLESTON, P.O. BOX 6070

STATE
WV

ZIP CODE
25362-0070

DESCRIPTION OF PROJECT (Briefly describe type of project or action)

THE APPLICANT PROPOSES TO CONSTRUCT A GAS WELL DRILLING SITE IN AN OPEN FIELD OWNED BY GEORGE & MARY BARTLETT. THE SITE WILL BE ACCESSED BY A ROAD TO BE CONSTRUCTED LEADING WESTERLY FROM BRYAN ROAD THROUGH A WOODS AND FIELD AS SHOWN ON THE ATTACHED TOPOGRAPHICAL MAP. THE SITE IS LOCATED 1775' WEST OF BRYAN ROAD, 1428' NORTH OF BARTLETT ROAD AND 4807' NORTH OF THE SOUTH LINE OF THE TOWN OF ERIN AS SHOWN ON THE ATTACHED PORTIONS OF THE "ERIN" TOPO QUAD.

PROJECT SITE IS THE WELL SITE AND SURROUNDING AREA WHICH WILL BE DISTURBED DURING CONSTRUCTION OF SITE, ACCESS ROAD, and PIT AND ACTIVITIES DURING DRILLING AND COMPLETION AT WELLHEAD.
 (PLEASE COMPLETE EACH QUESTION—indicate N.A., if not applicable)

LAND USE AND PROJECT SITE

1. Project Dimensions. Total Area of Project Site 159,760 sq. ft.
 Approximate square footage for items below:

		During Construction (sq. ft.)	After Construction (sq. ft.)
a. Access Road	(length x width) <u>(350' x 200')</u>	<u>61,460</u>	<u>10,500</u>
b. Well Site	(length x width) <u>(1756' x 35')</u>	<u>87,500</u>	<u>4,800</u>
c. PITS	<u>(2 @ 90' x 60')</u>	<u>10,800</u>	

2. Characterize Project Site Vegetation and Estimate Percentage of Each Type Before Construction:

72 % Agricultural (cropland, hayland, pasture, vineyard, etc.) 28 % Forested _____ % Wetlands
 _____ % Meadow or Brushland (non agricultural) _____ % Non vegetated (rock, soil, fill)

3. Present Land Use(s) Within 1/4 Mile of Project (Check all that apply)

Rural Suburban Forest Urban Agricultural Commercial Park/Recreation
 Industrial Other _____

4. How close is the nearest residence, building, or outdoor facility of any type routinely occupied by people at least part of the day?

Describe SINGLE FAMILY RESIDENCE 2250 ft.

ENVIRONMENTAL RESOURCES ON/NEAR PROJECT SITE

5. The presence of certain environmental resources on or near the project site may require additional permits, approvals or mitigation measures—Is any part of the well site or access road located:

- a. Over a primary or principal aquifer? Yes No Not Known
- b. Within 2,640 feet of a public water supply well? Yes No Not Known
- c. Within 150 feet of a surface municipal water supply? Yes No Not Known
- d. Within 150 feet of a lake, stream, or other public surface water body? Yes No Not Known
- e. Within an Agricultural District? Yes No Not Known
- f. Within a land parcel having a Soil and Water Conservation Plan? Yes No Not Known
- g. In a 100 year flood plain? Yes No Not Known
- h. In a regulated wetland or its 100 foot buffer zone? Yes No Not Known
- i. In a coastal zone management area? Yes No Not Known
- j. In a Critical Environmental Area? Yes No Not Known
- k. Does the project site contain any species of animal life that are listed as threatened or endangered? Yes No Not Known
 If yes, identify the species and source of information _____
- l. Will proposed project significantly impact visual resources of statewide significance? Yes No Not Known
 If yes, identify the visual resource and source of information _____

See ltr dtd. 2/19/07

CULTURAL RESOURCES

6. Are there any known archeological and/or historical resources which will be affected by drilling operations? Yes No Not Known
7. Has the land within the project area been previously disturbed or altered (excavated, landscaped, filled, utilities installed)? Yes No Not Known
- If answer to Number 6 or 7 is yes, briefly describe NORMAL FARMING OPERATIONS

EROSION AND RECLAMATION PLANS

8. Indicate percentage of project site within: 0-10% slope 65 % 10-15% slope 35 % greater than 15% slope %
9. Are erosion control measures needed during construction of the access road and well site? Yes No Not Known
If yes, describe and/or sketch on attached photocopy of plat SEE ATTACHED TOPOGRAPHICAL MAP
10. Will the topsoil which is disturbed be stockpiled for reclamation use? Yes No
11. Does the reclamation plan include revegetation? Yes No
If yes, what plant materials will be used? TALL FESCUE, PERENNIAL RYE GRASS OR AS NEGOTIATED WITH SURFACE OWNER
12. Does the reclamation plan include restoration or installation of surface or subsurface drainage features to prevent erosion or conform to a Soil and Water Conservation Plan? Yes No
If yes, describe

ACCESS ROAD SITING AND CONSTRUCTION

13. Are you going to use existing or common corridors when building the access road? Yes No
Locate access road on attached photocopy of plat.

DRILLING

14. Anticipated length of drilling operations? days.

WASTE STORAGE AND DISPOSAL

15. How will drilling fluids and stimulation fluids:
a. Be contained? LINED PITS
b. Be disposed of? TRANSPORTED TO A LICENSED WASTE FACILITY
16. Will production brine be stored on site? Yes No
If yes:
How will it be stored? TANKS WITH SECONDARY CONTAINMENT
How will it be disposed of? TRANSPORTED TO A LICENSED WASTE FACILITY
17. Will the drill cuttings and pit liner be disposed of on site? Yes No
If yes, expected burial depth? 3 feet

ADDITIONAL PERMITS

18. Are any additional State, Local or Federal permits or approvals required for this project? Yes No
- | | Date Application Submitted | Date Application Received |
|----------------------------------|----------------------------|---------------------------|
| Stream Disturbance Permit (DEC) | / / | / / |
| Wetlands Permit (DEC or Local) | / / | / / |
| Floodplain Permit (DEC or Local) | / / | / / |
| Other | / / | / / |
| | / / | / / |
| | / / | / / |
| | / / | / / |

PREPARER'S SIGNATURE

[Signature]
NAME/TITLE (Please print)
TIM SMITH - SURVEYING COORDINATOR
REPRESENTING
CHESAPEAKE APPALACHIA, L.L.C.

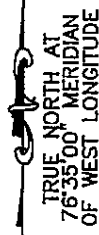
DATE 5/22/07

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF MINERAL RESOURCES

WELL LOCATION PLAT

SURFACE HOLE IS LOCATED ON TOPO MAP 9133 FEET SOUTH OF LATITUDE 42°10'00"
TARGET ENTRY IS LOCATED ON TOPO MAP 8712 FEET SOUTH OF LATITUDE 42°10'00"
BOTTOM HOLE IS LOCATED ON TOPO MAP 5845 FEET SOUTH OF LATITUDE 42°10'00"

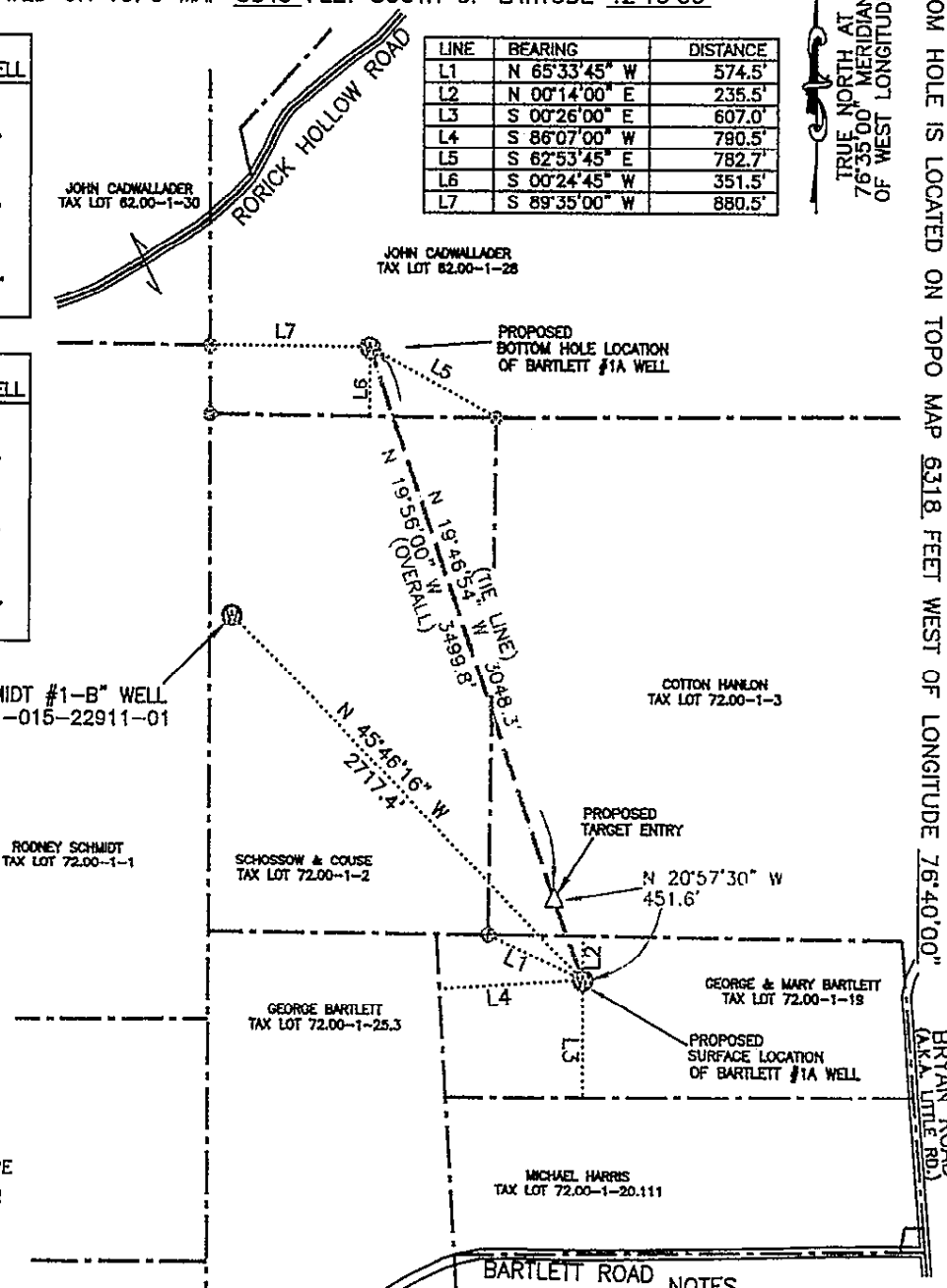
SURFACE HOLE IS LOCATED ON TOPO MAP 5122 FEET WEST OF LONGITUDE 76°40'00"
TARGET ENTRY IS LOCATED ON TOPO MAP 5284 FEET WEST OF LONGITUDE 76°40'00"
BOTTOM HOLE IS LOCATED ON TOPO MAP 6318 FEET WEST OF LONGITUDE 76°40'00"



NAD83 COORDINATES FOR "BARTLETT #1A" WELL
(SURFACE HOLE)
LAT. = N 42.141680°
LONG. = W 76.685224°
(TARGET ENTRY)
LAT. = N 42.142836°
LONG. = W 76.685821°
(BOTTOM HOLE)
LAT. = N 42.150704°
LONG. = W 76.689638°
ACCURACY = <0.3'

NAD27 COORDINATES FOR "BARTLETT #1A" WELL
(SURFACE HOLE)
LAT. = N 42.141605°
LONG. = W 76.685551°
(TARGET ENTRY)
LAT. = N 42.142762°
LONG. = W 76.686149°
(BOTTOM HOLE)
LAT. = N 42.150630°
LONG. = W 76.689966°
ACCURACY = <0.3'

LINE	BEARING	DISTANCE
L1	N 65°33'45" W	574.5'
L2	N 00°14'00" E	235.5'
L3	S 00°26'00" E	607.0'
L4	S 86°07'00" W	780.5'
L5	S 62°53'45" E	782.7'
L6	S 00°24'45" W	351.5'
L7	S 89°35'00" W	880.5'



EXISTING "SCHMIDT #1-B" WELL
API #31-015-22911-01

LEGEND

- ⊕--- FOUND IRON PIPE
- ⊙--- FOUND IRON PIN

NOTES

THE GPS NETWORK ESTABLISHED WAS CONSTRUCTED IN SUCH A MANNER THAT A "BASE" STATION OCCUPIED EACH OF THE TWO KNOWN CONTROL POINTS WHILE TWO "ROVER" STATIONS PERFORMED REDUNDANT STATIC OBSERVATIONS ON VARIOUS POINTS LOCATED AT THE WELL SITE. THESE "ROVER" OBSERVATIONS WERE POST-PROCESSED AGAINST THE TWO BASE STATIONS AND CONSTRAINED ACCORDINGLY.

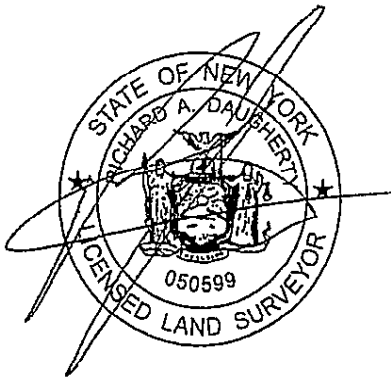
THIS PLAT IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY ON ALL PARCELS SHOWN. CORNERS AND LINES PERTINENT TO WELL LOCATION ARE BASED ON A FIELD SURVEY. THE REMAINDER OF THE PROPERTY LINES ARE BASED ON TAX MAP INFORMATION AND/OR DEEDS.

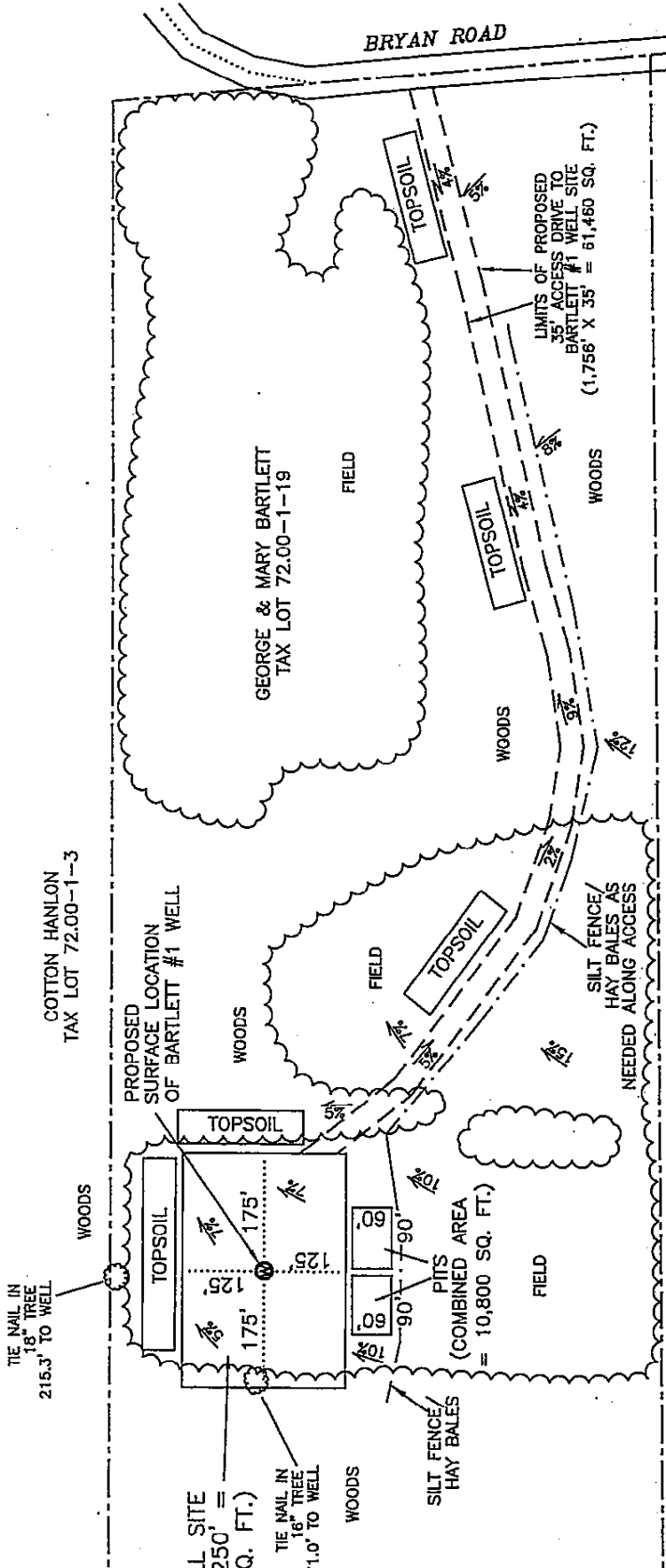
NOTES

INFORMATION SHOWN ON THIS PLAT WAS DETERMINED BY DEEDED INFORMATION COUPLED WITH ON THE GROUND LOCATION THROUGH THE USE OF SINGLE FREQUENCY (L1) GPS EQUIPMENT AS WELL AS THE USE OF A TOTAL STATION.

THE GPS NETWORK ESTABLISHED WAS CONSTRAINED TO THE NAD83 NEW YORK CENTRAL MERCATOR PROJECTION THROUGH THE USE OF THE CONTROL POINT DESIGNATED G 463 (PID #NB1620), AS WELL AS THE CONTROL POINT DESIGNATED M 459 (PID #NB1600). THE COORDINATES OF WHICH ARE:

- G 463 (PID #NB1620)
LAT. = N 42°12'18.13037"
LONG. = W 76°34'24.73754"
- M 459 (PID #NB1600)
LAT. = N 42°05'27.58317"
LONG. = W 76°48'40.19703"





TOPOGRAPHICAL MAP

OF PROPOSED

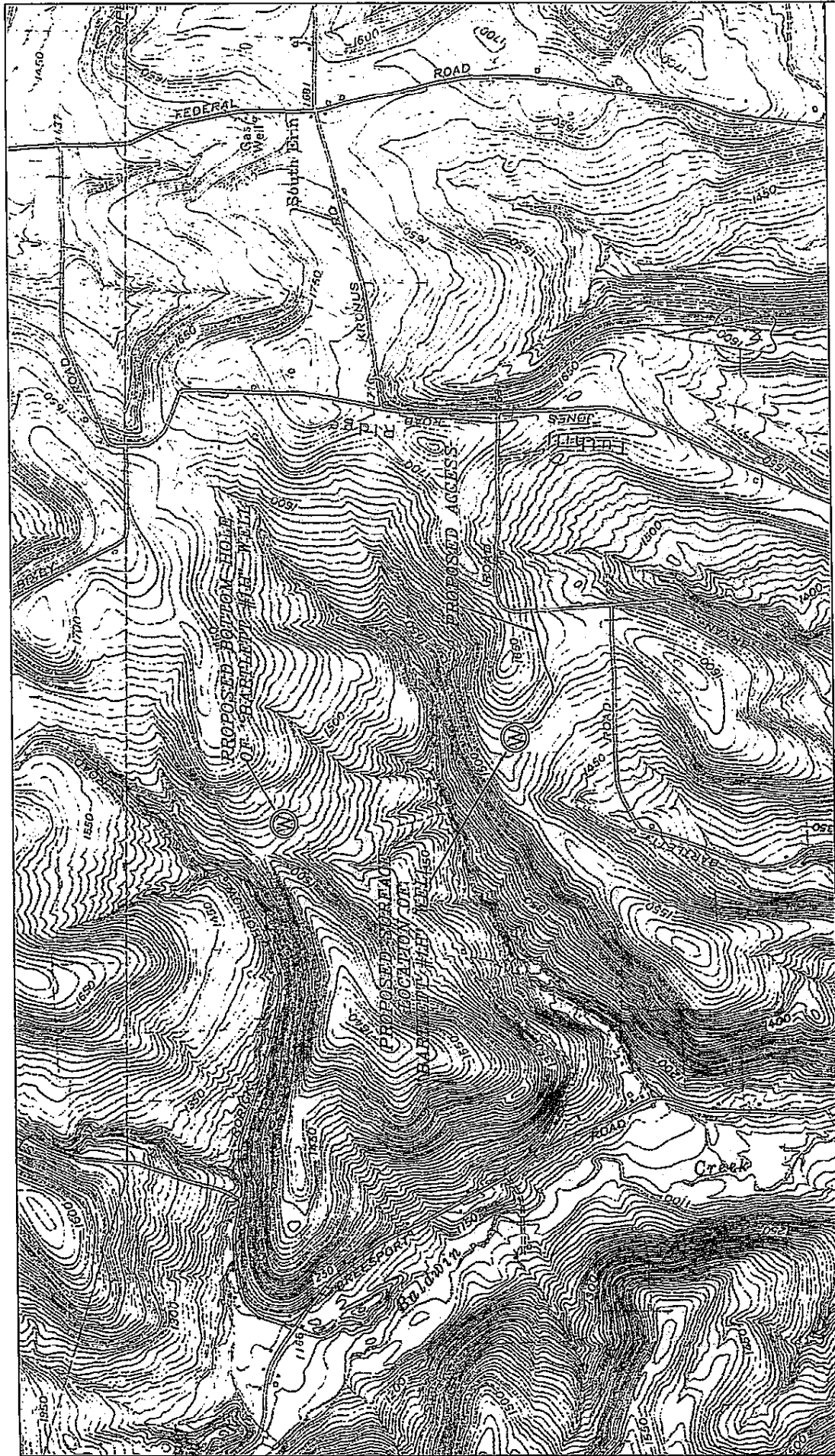
BARTLETT #1 WELL

MICHAEL HARRIS
TAX LOT 72.00-1-20.111

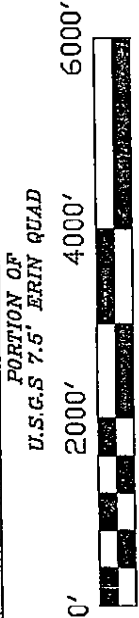
WOODS

TOWN OF ERIN
COUNTY OF CHEMUNG
STATE OF NEW YORK

G, PC



WELL LOCATION
BARTLETT #1H WELL
 TOWN OF ERIN
 COUNTY OF CHEMUNG
 STATE OF NEW YORK



PREPARED FOR
 CHESAPEAKE APPALACHIA, L.L.C.

HALLETT
SURVEYING & MAPPING, PC
 19 COMMUNITY DRIVE, SUITE 102
 ADDISON, NEW YORK 14801
 PHONE 607-369-3846
 FAX 607-369-4849

Chesapeake Operating Inc

Current Wellbore

Well : Bartlett #1
Field : Wynkoop
County : Chemung State : NY
Location : Lat. 42.14177 Long. 76.68556
KB Elev : 1,578' Grd Elev : 1,558'

