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**west virginia** department of environmental protection

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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

May 20, 2014

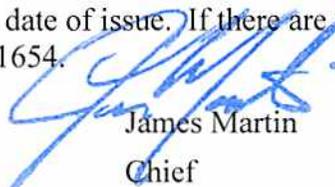
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8100838, issued to CABOT OIL & GAS 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 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: WEBB # 4  
Farm Name: BROOKS, GORDON & SANDRA  
**API Well Number: 47-8100838**  
**Permit Type: Plugging**  
Date Issued: 05/20/2014

**Promoting a healthy environment.**

## 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

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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.

WW-4B  
Rev. 2/01

1) Date April 15, 2014  
2) Operator's  
Well No. Teddy Webb #4  
3) API Well No. 47-081 - 00838

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 \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1788.19 Watershed Unnamed Tributary of Marsh Fork of Coal Riv.  
District Marsh Fork County Raleigh Quadrangle Arnett

6) Well Operator Cabot Oil & Gas Corporation. 7) Designated Agent Whitney Johnson  
Address Five Penn Center West, Ste. 401 Address P.O. Box 450  
Pittsburgh, PA 15276 Glasgow, WV 25086

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Gary Kennedy Name Shreve's Well Service  
Address P.O. Box 268 Address 3473 Triplett Road  
Nimitz, WV 25978 Spencer, WV 25276

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

Received

APR 29 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection  
WV Dept. of Environmental Protection

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 4/17/14

**TEDDY WEBB #4**  
**API # 47 - 081 - 00838**  
**PLUGGING PROCEDURE**

**Current Configuration**

DTD @ 3025'

11 3/4" conductor pulled

8 5/8" - 24# LS casing @ 1000' KB, cemented to surface

4 1/2" - 10.5# - J-55 casing @ 2969' KB w/ TOC @ 1128'

2-3/8" tubing @ 2724' KB

Weir perfs: 2866' - 2877'

Big Lime perfs: 2739' - 2736'

Lower Maxton perfs: 2140' - 2150'

Maxton perfs: 1906' - 1936'

No coal reported

No fresh water reported

**PROCEDURE**

1. Contact Pineville District Office a minimum of 48 hours prior to starting work
2. Contact state inspector a minimum of 24 hours prior to starting work.
3. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x 7" annulus.
4. Unpack wellhead.
5. Run rig tools to determine well TD and note any fluid level.
6. MIRU service rig and blow down well.
7. MIRU Cementing Company.
8. Lower tubing to 2930'.
9. Pump 10 barrels of 6% Gel followed by 25 sacks of Class A cement for cement plug 1 from 2930' to 2600'.
10. Displace with 10 bbls of 6% Gel.
11. Pull tubing up to 2200' and pump 30 sacks of Class A cement for cement plug 2 from 2200' to 1800'.
12. Displace with 7 bbls of 6% Gel.
13. POOH with tubing and let cement plug set for a minimum of four hours.
14. Run freepoint and cut 4 1/2" casing where free. Estimate ±1100'.
15. POOH with casing.
16. TIH with tubing to 50' inside 4 1/2" casing (±1150') and pump 35 bbls of 6% Gel.
17. Pump 70 sacks of Class A cement for 250' cement plug 3 with TOC @ 900'.
18. Displace with 3.5 bbls of 6% Gel.
19. Pull tubing up to 200' and pump 61 sacks of Class A cement for cement plug 4 from 200' to surface.
20. TOOH with tubing and lay down.
21. RDMO Cement company
22. Erect Monument according to Law.
23. RDMO.

**Received**

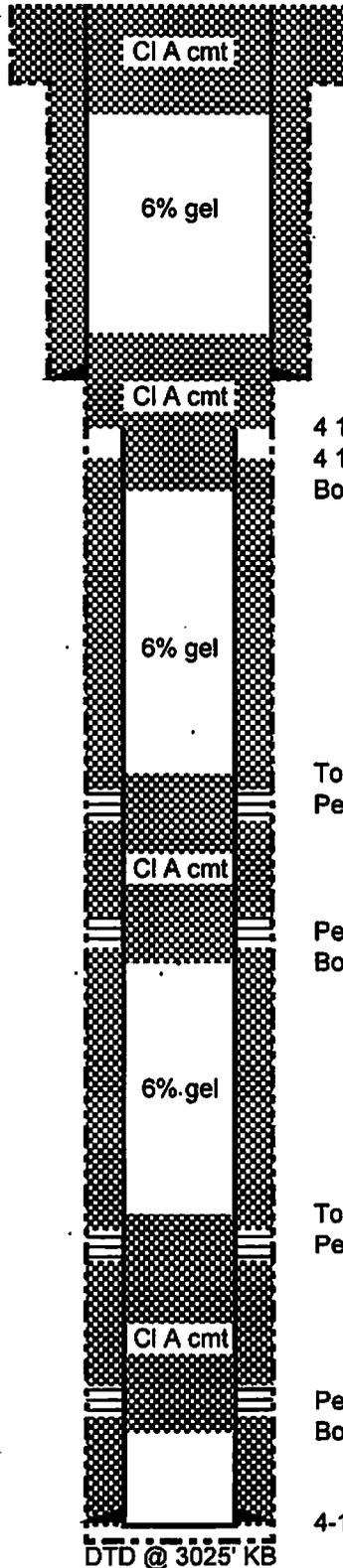
APR 29 2014

Office of Oil and Gas  
 WV Dept. of Environmental Protection

*[Signature]*

**Teddy Webb #4**  
API 47-081-00838  
PROPOSED CONFIGURATION

No water reported  
No coal reported



11 3/4" Conductor pulled  
Bottom of plug 4 @ 200' KB

Top of plug 3 @ 900' KB  
8-5/8" 24# Casing @ 1000' KB  
Cemented to surface

4 1/2" csg cut @ freepoint (± 1100' KB)  
4 1/2" csg TOC @ 1128' KB  
Bottom of plug 3 @ ± 1150' (50' below casing cut)

Top of plug 2 @ 1800' KB  
Perforations @ 1906'-1936'

Perforations @ 2140'-2150'  
Bottom of plug 2 @ 2200' KB

Top of plug 1 @ 2600' KB  
Perforations @ 2731' - 2736'

Perforations @ 2866' - 2877'  
Bottom of plug 1 @ 2930' KB

4-1/2" 10.5# J-55 Casing @ 2969' KB

DTD @ 3025' KB

Maxton

Lower Maxton

Big Lime

Weir

Received

APR 29 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

Schematic is not to scale

T. Ott 09/11/13

WR-35

14-Oct-88

API # 47- 81-00838

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: WHITTAKER, LEONARD W. Operator Well No : T. WEBB 4-S-719

LOCATION: Elevation: 1796.00 Quadrangle: ARNETT

District: MARSH FORK County: RALEIGH  
Latitude: 5515 Feet South of 37 Deg. 50Min. 0 Sec.  
Longitude 3220 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: SCOTT OIL CO.  
P. O. BOX 8  
GREENWOOD, VA

Agent: JOHN T. HASKINS

Inspector: RODNEY G. DILLON  
Permit Issued: 10/14/88  
Well work Commenced: 11/30/88  
Well work Completed: 12/5/88

Verbal Plugging  
Permission granted on: \_\_\_\_\_

Rotary  Cable \_\_\_\_\_ Ris \_\_\_\_\_  
Total Depth (feet) 3025

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)?   
Coal Depths (ft): \_\_\_\_\_

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
11 3/4	30		
8 5/8		1000	to surface
4 1/2		2969	300 sks

**RECEIVED**  
JAN 23 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Weir, Big Lime, Maxton Pay zone depth (ft) \_\_\_\_\_  
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 \_\_\_\_\_ Psid (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 3714 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 520 Hours  
Static rock Pressure 520 Psid (surface pressure) after 72 Hours

RAJ. 0838

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELL BORE.

For: *Darrel Wright*  
SCOTT OIL CO.

By: Darrel Wright  
Date: 1/20/89

PROVIDED BY OO & G

Weir	2866-2877	Sand 20/40	300 sks	500 gallon	15%
Big Lime	2731-2736	72 bbl	15%	96 bbl	28%
L. Maxton	2140-2150	20/40 sand	400 sks	500 gallon	15%
Maxton	1906-1936	20/40 sand	400 sks	500 gallon	15%

Sub Base	0	3
Sand	3	23
Sand & Shale	23	1875
Sand	1875	1951
Sand & Shale	1951	2130
Sand	2130	2222
Sand & Shale	2222	2390
Sand	2390	2740
Sand & Shale	2740	2857
Sand	2857	2940
Sand & Shale	2940	3025 TD

Gamma Ray

Maxton	1875	1951
L. Maxton	2130	2222
Big Lime	2390	2741
Weir	2857	2936

**RECEIVED**  
**JAN 23 1989**  
 DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

1444

WW-4A  
Revised 6-07

1) Date: 4/15/2014  
2) Operator's Well Number  
Teddy Webb #4

3) API Well No.: 47 - 081 - 00838

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Gordon L. &amp; Sandra L. Brooks</u>	Name <u>See Attached Sheet</u>
Address <u>906 Saxon Bolt Road</u>	Address _____
<u>Arnett, WV 25007</u> ✓	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>James Ray Webb</u>
_____	Address <u>P.O. Box 242</u> ✓
_____	<u>Arnett, WV 25007</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u> ✓	(c) Coal Lessee with Declaration
Address <u>P.O. Box 268</u> ✓	Name <u>None of Record</u>
<u>Nimitz, WV 25978</u>	Address _____
Telephone <u>(304) 382-8402</u>	_____

**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.

Well Operator Cabot Oil & Gas Corporation  
 By: Kenneth L. Marcum *Kenneth L. Marcum*  
 Its: Regulatory Supervisor  
 Address Five Penn Center West, Ste. 401  
Pittsburgh, PA 15276  
 Telephone (412) 249-3863

**COMMONWEALTH OF PENNSYLVANIA**  
 Notarial Seal  
 Constance C. Carden, Notary Public  
 McDonald Boro, Washington County  
 My Commission Expires Nov. 16, 2017  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 15th day of April, 2014

*Constance C. Carden*

Notary Public *Office of Oil and Gas*

My Commission Expires November 16, 2017

**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](mailto:depprivacyoffier@wv.gov).

APR 21 2014

**TEDDY WEBB #4**  
**API #47-081-00838**

**COAL OPERATOR**

Rhino Eastern, LLC ✓  
P.O. Box 260  
Bolt, WV 25817

Marfork Coal Company, Inc. ✓  
P.O. Box 457  
Whitesville, WV 25209

Independence Coal Co., Inc. ✓  
P.O. Box 150  
Cannelton, WV 25036

RECEIVED  
Office of Oil and Gas  
APR 21 2014  
WV Department of  
Environmental Protection

8100838P

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 APR 15 2014  
 J. Webb #4 R/A 1A

Sent To: **Marfork Coal Company, Inc.**  
 P.O. Box 457  
 Whitesville, WV 25209

PS Form 3800

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 J. Webb #4 R/A

Sent To: **Independence Coal Co., Inc.**  
 P.O. Box 150  
 Cannelton, WV 25036

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 J. Webb #4 R/A

Sent To: **James Ray Webb**  
 P.O. Box 242  
 Arnett, WV 25007

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 J. Webb #4 R/A

Sent To: **Rhino Eastern, LLC**  
 P.O. Box 260  
 Bolt, WV 25817

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 J. Webb #4 R/A

Sent To: **Gary Kennedy**  
 P.O. Box 268  
 Nimitz, WV 25978

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Total Postage & Fees	\$

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 APR 15 2014  
 J. Webb #4 R/A

Sent To: **Gordon L. & Sandra L. Brooks**  
 906 Saxon Bolt Road  
 Arnett, WV 25007

PS Form 3800

WW-9  
(5/13)

Page 1 of 7  
API Number 47 - 081 - 00838  
Operator's Well No. T. Webb #4

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cabot Oil & Gas Corporation OP Code 307249

Watershed (HUC 10) 0505000902 Marsh Fork Quadrangle 218 - ARNETT

Elevation 1788.19 County 081 Raleigh District 2-Marsh Fork

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

Will a pit be used for drill cuttings? Yes  No  *OK*

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

*ANY WELL EFFLUENT MUST BE COLLECTED IN TANKS.*

Will closed loop system be used? yes

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. n/a

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

-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 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 *Kenneth L Marcum*

Company Official (Typed Name) Kenneth L Marcum, PS

Company Official Title North Region Survey/Coal Coordinator

Received

APR 29 2014

Subscribed and sworn before me this 15th day of April, 2014  
Constance C. Carden  
Notary Public

My commission expires November 16, 2017

Office of Oil and Gas  
WV Dept. of Environmental Protection

Notary Public  
COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Constance C. Carden, Notary Public  
McDonald Boro, Washington County  
My Commission Expires Nov. 16, 2017  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Form WW-9

Operator's Well No. T. Webb #4

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 0.61 Prevegetation pH 6.0

Lime 2 Tons/acre or to correct to pH 6.5

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

Mulch pulp fiber; 1/2-3/4 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Inspector

Date: 4/17/14

Field Reviewed? ( ) Yes ( ) No

Received

APR 29 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

TOPO SECTION OF:  
United States Department of the Interior  
Geological Survey - Arnett, WV - 7½' Quadrangle

**PROPOSED CULVERT INVENTORY**  
(For Bid Purposes Only)

15" (Minimum) Culverts	None
------------------------	------

Additional Culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector. Operator is responsible for coordination with contractor and True Line regarding any changes or additions the State may require.

**PROJECTED EARTHEN DISTURBANCE**

Well Location Site	0.25 Acres
Access Road	0.36 Acres
Approximate Total Disturbance	0.61 Acres

**LEGEND**

- Proposed Road 
- Existing Road 
- Existing Culvert 
- Proposed Culvert (15" Min. unless noted) 
- Proposed Stream Crossing 
- Cross Drain 
- Diversion Ditch 
- Silt Fence 
- Brush Barrier 
- Tree Line 
- Road Ditch 
- Gas Line 
- Fence Line 
- Water Well 
- House/Structure 
- Spring 
- Wet Spot 

All roads shown hereon are existing unless otherwise noted and shall be maintained in accordance with the WVDEP best management practices contained in the Erosion and Sediment Control Field Manual.

Entrances at County/State roads shall be maintained in accordance with WVDOT regulations. Separate permits may be required by the WVDOT.

Sediment basins (sumps) and appropriate erosion control barriers are to be constructed at all culvert and cross drain inlets and outlets as required in the WVDEP Oil & Gas Erosion and Sediment Control Field Manual. Field conditions (rock outcrops or bedrock) may prohibit inlet sumps (traps) being installed. When these conditions exist, additional erosion control measures shall be evaluated and employed as needed.

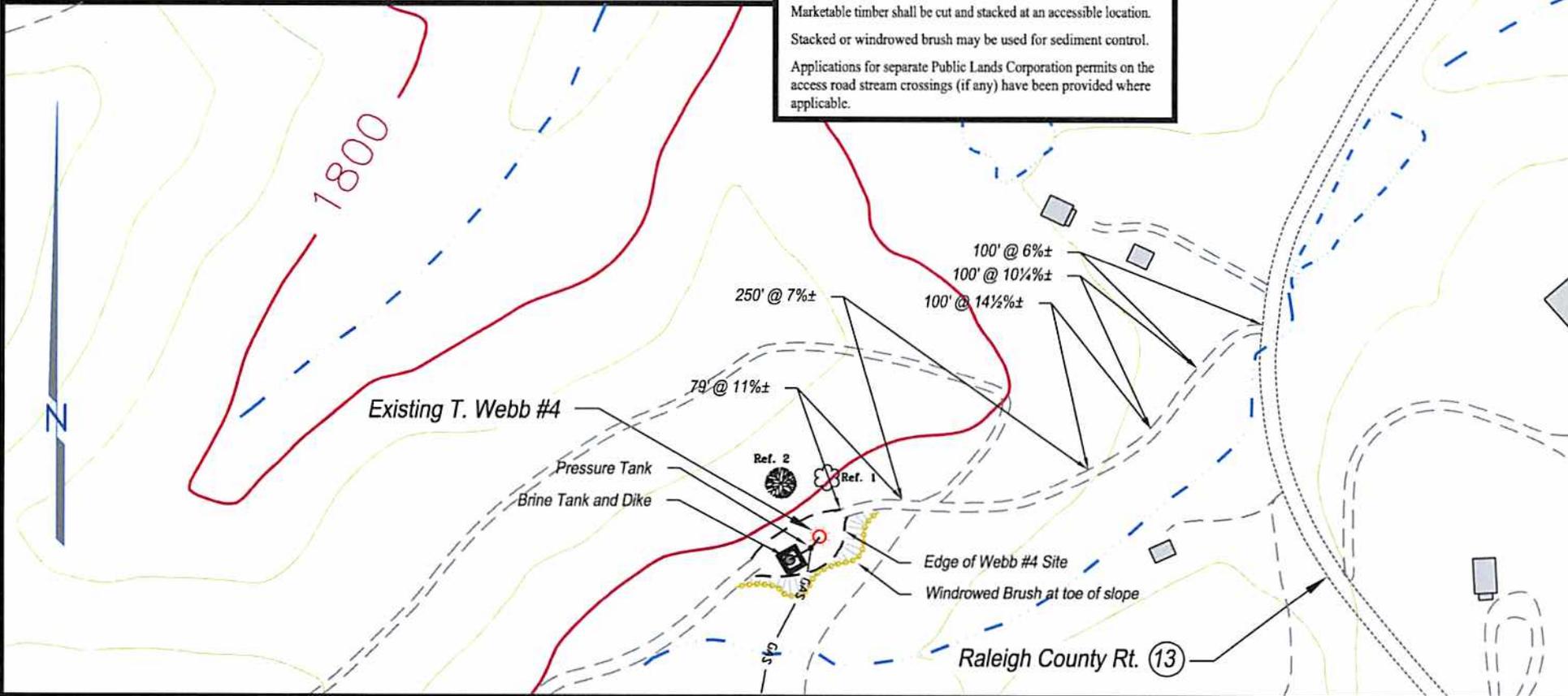
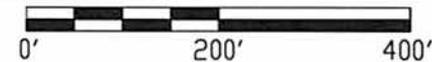
Earthwork contractors are responsible for notification to the operator and Oil & Gas Inspector prior to any deviation from this plan.

All slopes shall be seeded and mulched after site construction is complete. All slopes created during road construction will receive temporary seeding and mulch immediately following completion.

Marketable timber shall be cut and stacked at an accessible location.

Stacked or windrowed brush may be used for sediment control.

Applications for separate Public Lands Corporation permits on the access road stream crossings (if any) have been provided where applicable.

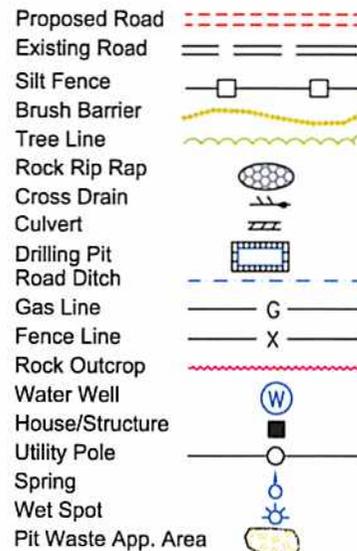


8100838A

**GENERAL NOTES:**

- 1.) THESE DRAWINGS ARE A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD. PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORSEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.
- 2.) ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES AND REQUIREMENTS OF THE WV DEP OIL & GAS EROSION AND SEDIMENT CONTROL MANUAL.
- 3.) ALL CULVERTS SHOWN ON THESE DRAWINGS ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.
- 4.) DITCHLINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL; HOWEVER, PORTIONS OF THE EXISTING ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.
- 5.) SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES/MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHERE AND WHEN DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF SILT FENCES OR OTHER MEASURES AS OUTLINED IN THE EROSION AND SEDIMENT CONTROL MANUAL.
- 6.) SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAIN INLETS AS REQUIRED IN THE WV-DEP OIL & GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST, ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.
- 7.) SEDIMENT BARRIERS OF EITHER WINDROWED BRUSH, FILTER FENCE ET CETERA WILL BE INSTALLED AND MAINTAINED BELOW THE OUTFALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DISCHARGE POINTS FROM EITHER THE ROADWAY OR SITE LOCATIONS.
- 8.) ALL NECESSARY TIMBER AND BRUSH WILL BE REMOVED FROM THE PROPOSED ROADWAY AND SITE LOCATIONS BY CLEARING AND GRUBBING ACTIVITIES. ANY MARKETABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER AND BRUSH WILL BE CUT AND WINDROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS, TO BE UTILIZED AS A SEDIMENT BARRIER.
- 9.) SEPARATE PERMITS WILL BE OBTAINED FROM THE WV-DOT FOR ALL POINTS OF INGRESS-EGRESS FROM COUNTY/STATE ROADS. THESE INGRESS-EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WV-DOT REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS-EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WV-DOT REGULATIONS.
- 10.) ALL CULVERTS SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIPRAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUTFALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM CHANNEL OR CREEK.
- 11.) PERMANENT CROSS DRAINS OR WATERBARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH THE AS-BUILT ROADWAY GRADES AND TABLE II-4 OF THE SEDIMENT AND EROSION CONTROL FIELD MANUAL.
- 12.) TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, STIE LOCATIONS, ROAD OR SITE OUTSLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES RESULTING FROM THE PROPOSED WELL.
- 13.) THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO MINIMIZE ENVIRONMENTAL IMPACTS AND MEET THE REQUIREMENTS OF THE WV-DEP.

**DRAWING LEGEND**



**SPACING OF CULVERTS BY GRADE**

ROAD GRADE (%)	DISTANCE
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100

**SPACING OF CROSS DRAINS BY GRADE**

ROAD GRADE (%)	DISTANCE
1	400
2	250
5	135
10	80
15	60
20	45

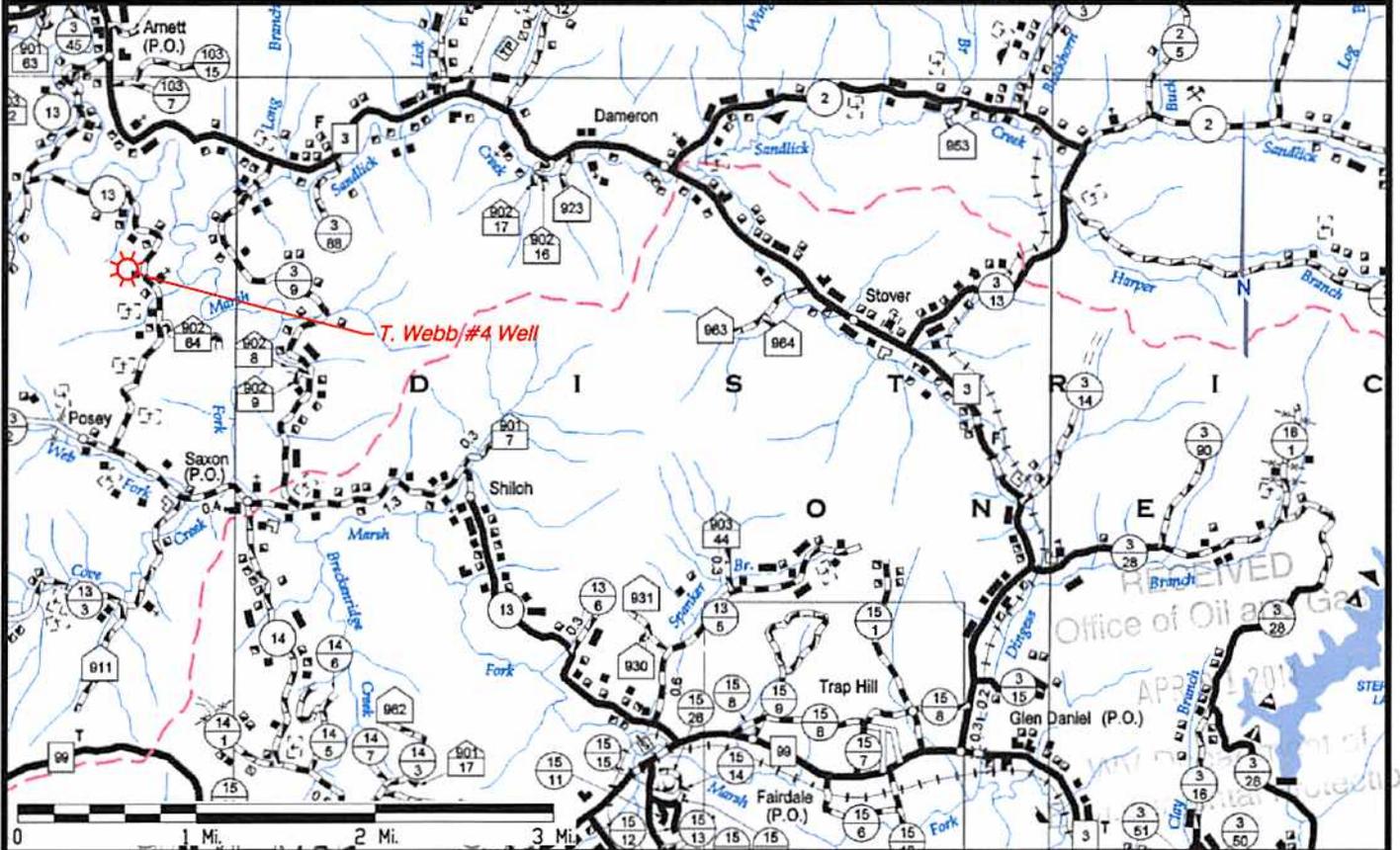
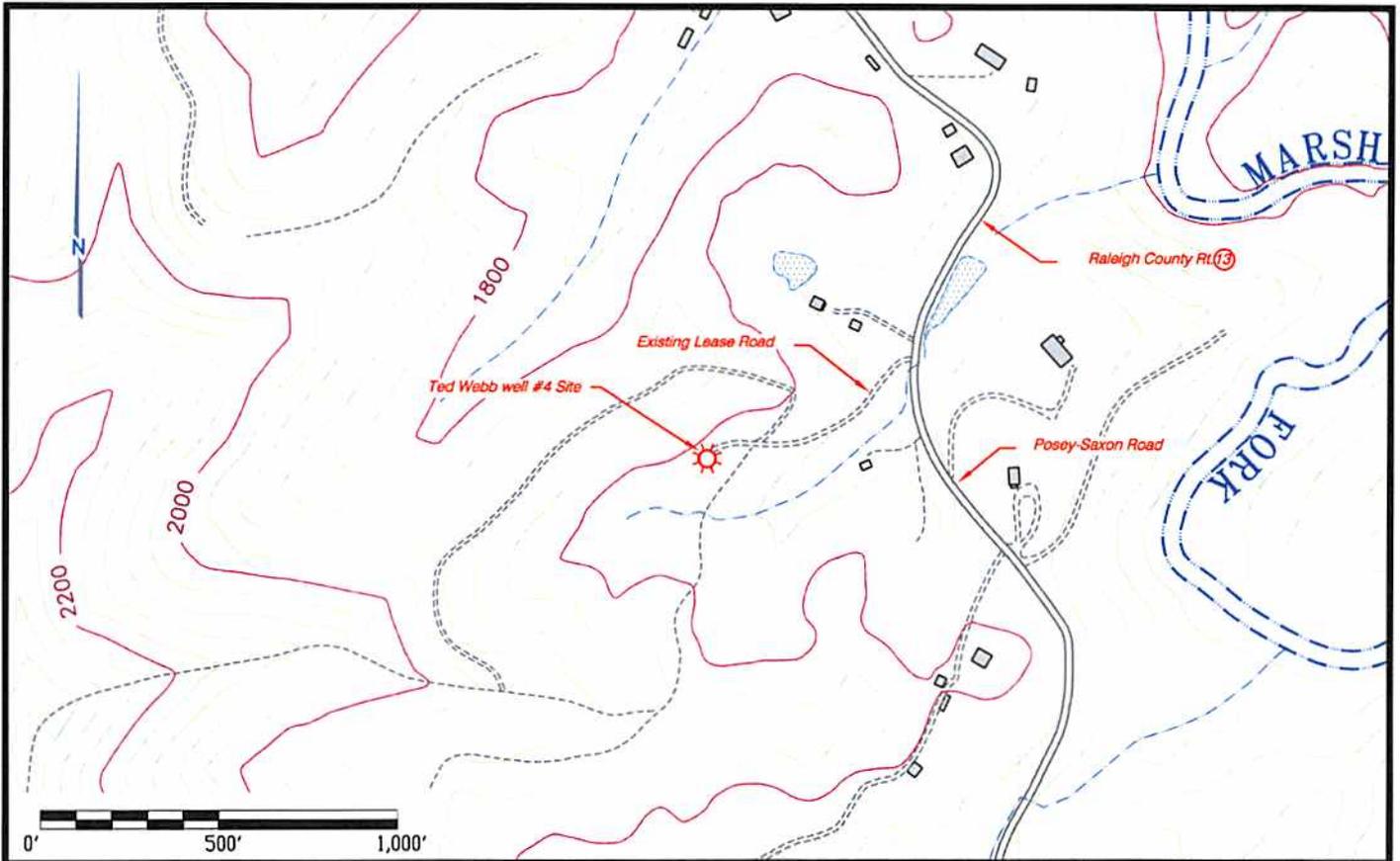
**CONTRACTOR NOTE:**

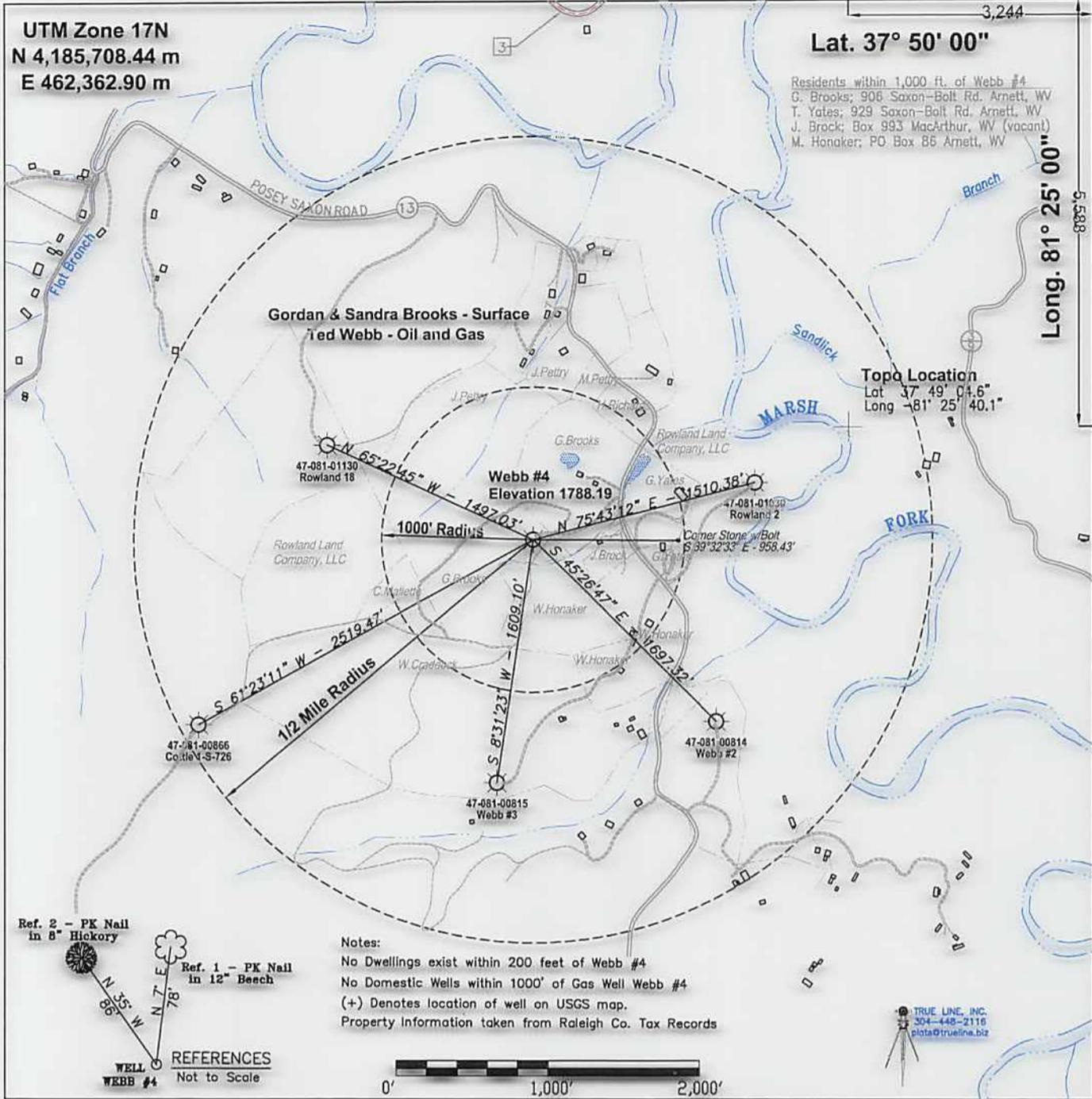
IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE SIZE/CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR EXCAVATION ACTIVITIES.

WEST VIRGINIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS NOTICE IN DESIGN STAGE.

CALL 1-800-245-4848

APR 21 2014





FILE #: \\filestation1\station4d\work\  
 DRAWING #: Cabot2014\WW-6-Webb  
 SCALE: see bar scale above  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: survey grade GPS

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.

Signed: *John E. Caffrey*  
 R.P.E.: \_\_\_\_\_ L.L.S.: 1065

**JOHN E. CAFFREY**  
 LICENSED  
 No. 1065  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL SURVEYOR  
 PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
**WVDEP**  
**OFFICE OF OIL & GAS**  
**601 57TH STREET**  
**CHARLESTON, WV 25304**

**DATE:** September 17, 2013  
**OPERATOR'S WELL #:** Webb #4  
**API WELL #:** 47 081 00838 P  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

**WATERSHED:** Unnamed Tributary of Marsh Fork of Coal River **ELEVATION:** 1788.19

**COUNTY/DISTRICT:** 081-Raleigh / 2-Marsh Fork **QUADRANGLE:** 218 - ARNETT

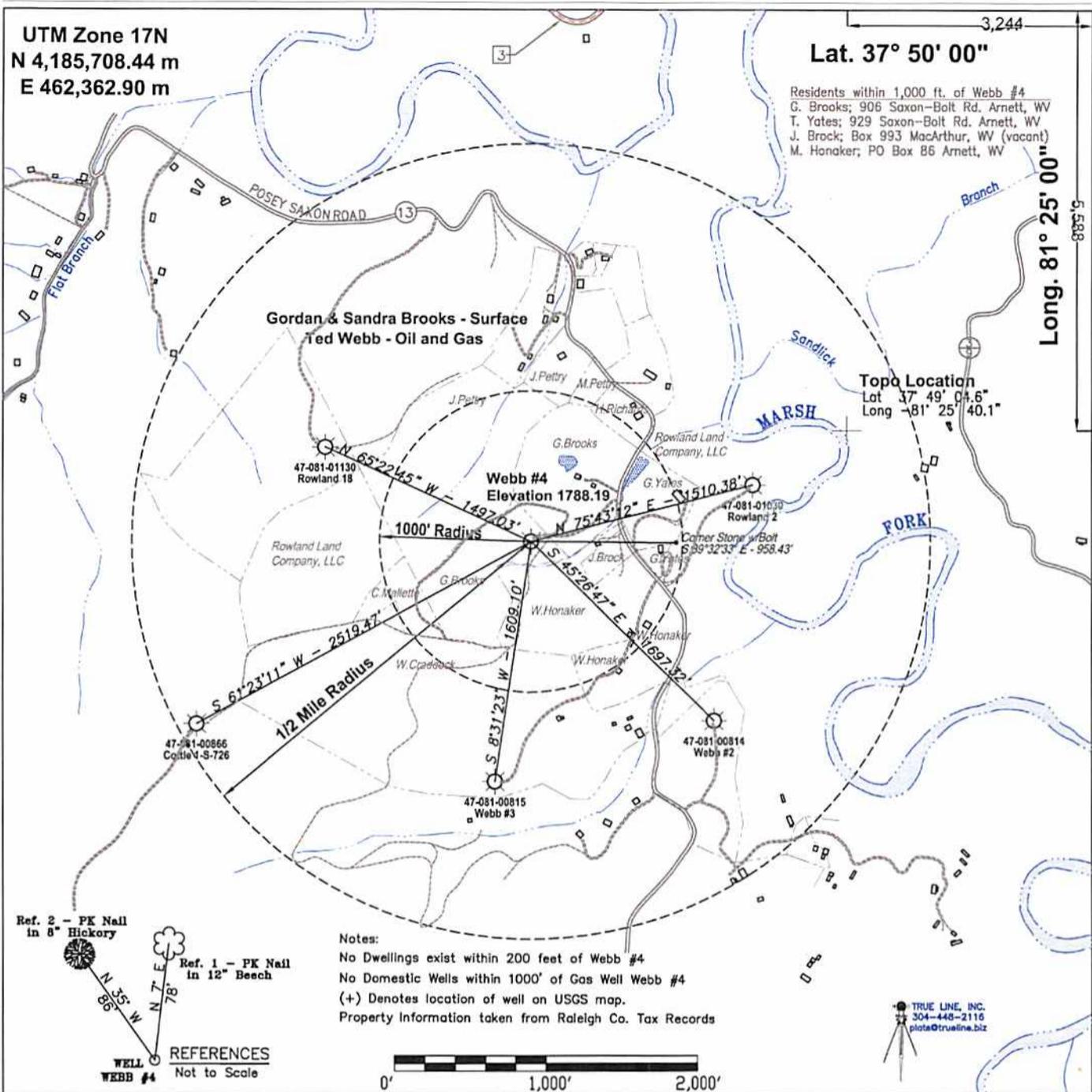
**SURFACE OWNER:** Gordon & Sandra Brooks **ACREAGE:** 25

**OIL & GAS ROYALTY OWNER:** Tedd Webb **ACREAGE:** 176±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

**TARGET FORMATION:** Weir **ESTIMATED DEPTH:** 3025

**WELL OPERATOR** Cabot Oil & Gas Corporation **DESIGNATED AGENT** Whitney Johnson  
 Address Five Penn Center West, Suite 401 Address P.O. Box 450  
 City Pittsburgh State PA Zip Code 15276 City Glasgow State WV Zip Code 25086



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Signed: *[Signature]*  
 R.P.E.: \_\_\_\_\_ L.L.S.: 1065

JOHN E. CAFFREY  
 LICENSED  
 No. 1065  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL SURVEYOR  
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WELL OPERATOR Cabot Oil & Gas Corporation DESIGNATED AGENT Whitney Johnson  
 Address Five Penn Center West, Suite 401 Address P.O. Box 450  
 City Pittsburgh State PA Zip Code 15276 City Glasgow State WV Zip Code 25086



April 15, 2014

Chief  
West Virginia Division of Environmental Protection  
Office of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, WV 25304

RE: Teddy Webb #4  
Marsh Fork District, Raleigh County, WV  
API # 47-081-00838  
Written Application to plug and abandon wellbore

Dear Chief:

In accordance with Article 22-6-23 of the Code of State Regulations regarding oil and gas operations, please find attached a formal application for the plug and abandonment of the subject well.

Notices of our intention to plug this wellbore have been sent to surface owner, coal owner, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records.

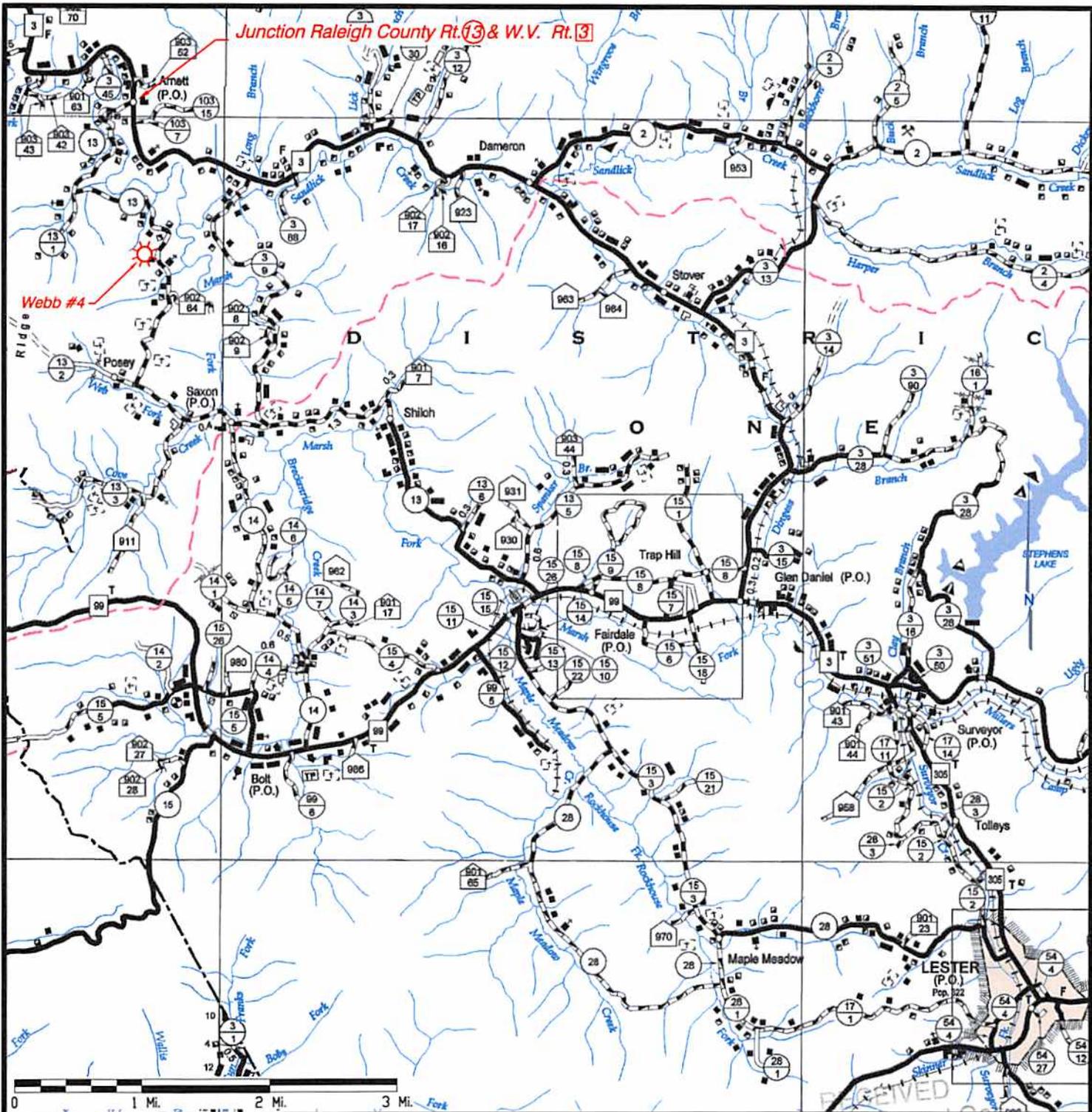
If you have any questions or need additional information, I can be reached at 412-249-3850.

Sincerely,



Kenneth L. Marcum  
Regulatory Supervisor

RECEIVED  
Office of Oil and Gas  
APR 21 2014  
WV Department of  
Environmental Protection



### Driving Directions:

1. Beginning on WV Route 3 at Interchange 44 of Interstate 77 at Beckley, take Rt. 3 West 19 1/4 miles more or less to the community of Arnett.
2. Turn left at Arnett onto Raleigh County Route 13 Posey-Saxon Road for a distance of 2 1/4 miles. Note the pond on the left side of Rt 13
3. The existing lease road is the second right past the end of the pond on the left.
4. Follow the existing lease road 225 yards to the T. Webb #4 well site.

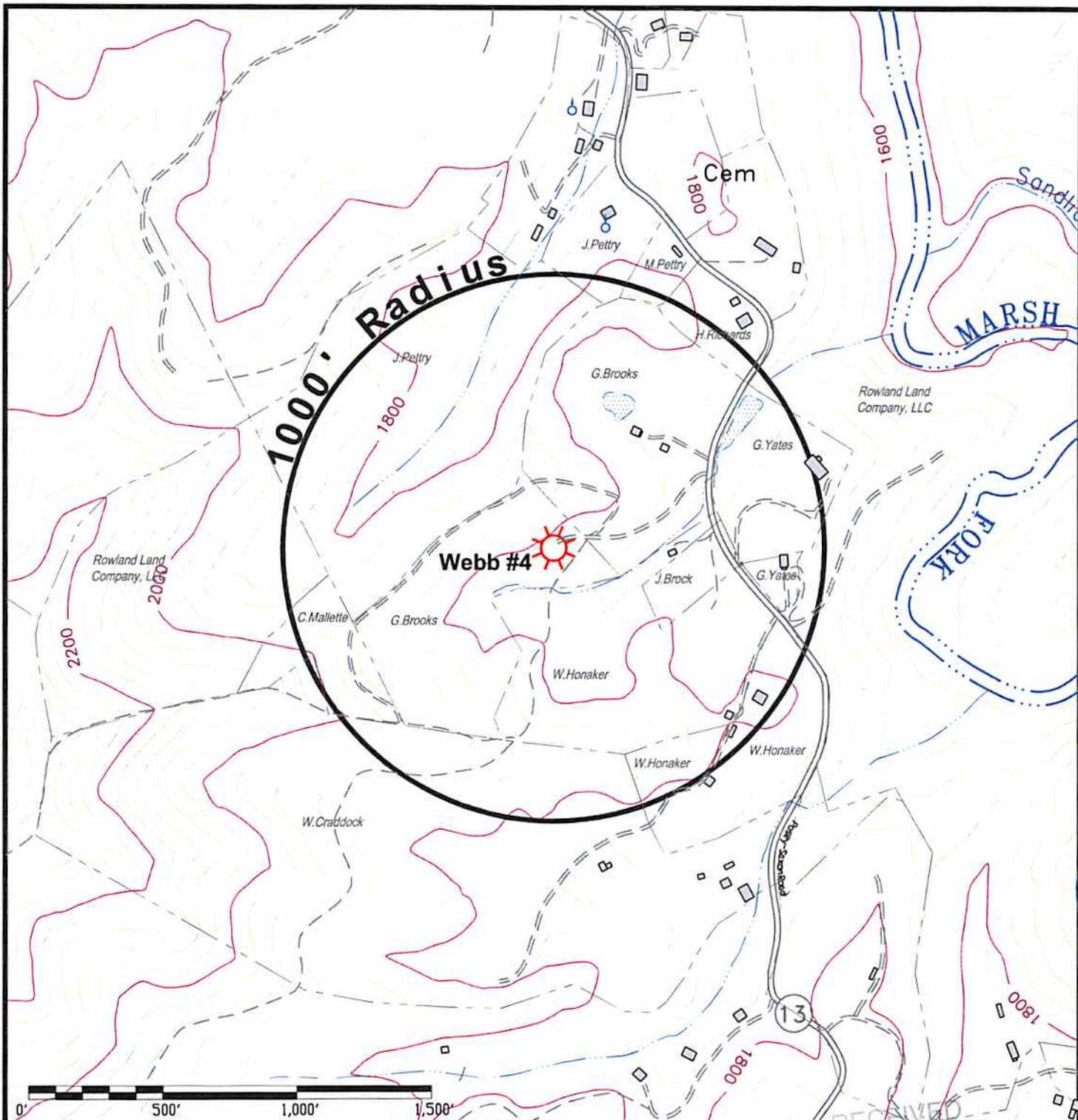
RECEIVED  
Office of Oil and Gas  
APR 21 2014  
WV Department of  
Environmental Protection



## T. Webb #4

Located near Arnett in Marsh Fork District of Raleigh County, West Virginia.

September 17, 2013  
Driving Directions



### Arnett, WV 7 1/2' Quadrangle

**Notes:**

No water wells or other sources of groundwater currently being used for human consumption, domestic animals or other general uses were identified within 1000' of the proposed well site. Public water is available and used by 1000' residents.

**Legend:**

- Water Well
- Spring
- Wet Spot
- House/Structure



Cabot Oil & Gas Corporation

### T. Webb #4

Located near Arnett in Marsh Fork District of Raleigh County, West Virginia

RECEIVED  
 Department of Oil and Gas  
 APR 21 2014  
 WV Department of Environmental Protection