



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. Huffinan, Cabinet Secretary
www.dep.wv.gov

August 21, 2014

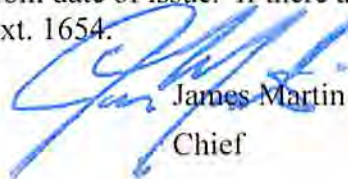
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100951, 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: McCREERY COAL 3
Farm Name: McCREERY COAL LAND CO.
API Well Number: 47-8100951
Permit Type: Plugging
Date Issued: 08/21/2014

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.

1) Date July 21, 2014
2) Operator's
Well No. McCreery Coal & Land #3
3) API Well No. 47-081 - 00951

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 X or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 3,094.01 Watershed Fall Branch of New River
District Richmond County Raleigh Quadrangle Hinton

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 25275

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

Received

AUG 7 2014

Office of Oil and Gas
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 7/28/14

08/22/2014

MCCREERY COAL #3 API # 47 - 081 - 00951 PLUGGING PROCEDURE

Current Configuration

DTD @ 3737'
16" 65# LS conductor @ 40' KB, not cemented
8 5/8" - 20# LS casing @ 1024' KB, cemented to surface
4 1/2" - 10.5# - J-55 casing @ 2868' KB w/ TOC @ 2540'
Big Lime perforations: 2728' - 2736'
Ravenclyff formation: 976' - 1000' (not perforated)
Coal @ 335' - 337'
Fresh water @ 130'

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. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4-1/2" x 8 5/8" annulus.
5. Unpack wellhead.
6. Run rig tools to determine well TD and note any fluid level.
7. RIH with 2-3/8" work string to approximately 2800'.
8. MIRU Cementing Company.
9. Pump 5 barrels of 6% Gel.
10. Pump 12 sacks of Class A cement for cement plug 1 from 2800' to 2650'.
11. Displace with 10 bbls of 6% Gel.
12. POOH with work string and let cement plug set for a minimum of four hours.
13. Run freepoint and cut 4 1/2" casing where free. Estimate ±2450'.
14. Pick up casing 1 jt and pump 40 sacks of Class A cement for Cement Plug 2 from ±2450' to 2330'.
15. Displace with 37 bbls of 6% Gel.
16. Pull 4 1/2" casing up to 1100' and pump 62 sacks of Class A cement for Cement Plug 3 from 1100' to 900'.
17. Displace with 14 bbls of 6% Gel.
18. Pull 4 1/2" casing up to 400' and pump 125 sacks of Class A cement with 10% salt added for cement plug 4 from 400' to surface.
19. TOOH with 4 1/2" casing and lay down.
20. RDMO Cement company
21. Erect Monument according to Law.
22. RDMO.

3% CaCl₂

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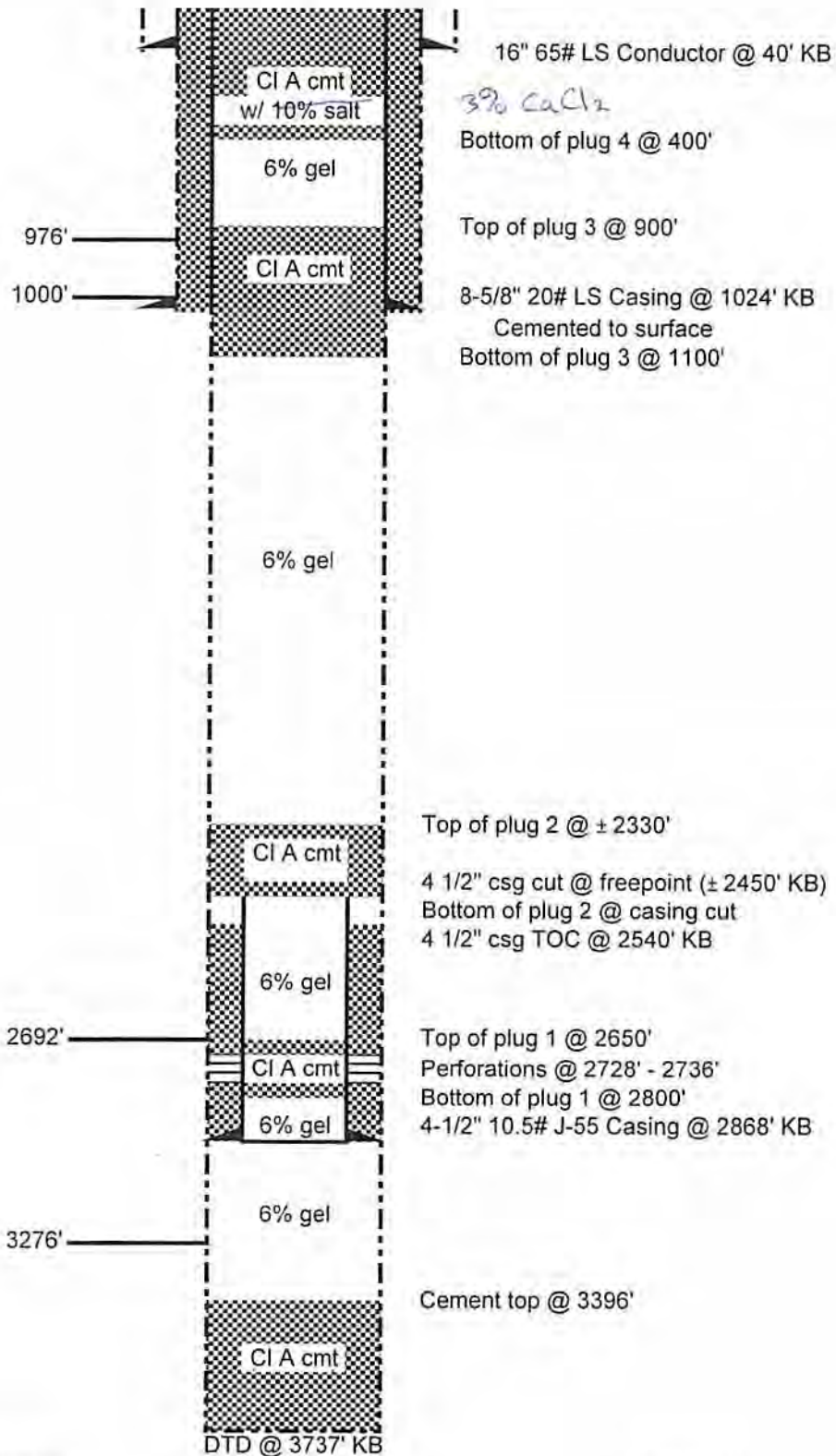
Office of Oil and Gas
WV Dept. of Environmental Protection

McCreery Coal #3 API 47-081-00951 PROPOSED CONFIGURATION

Fresh Water @ 130'
Coal @ 335'-337'

Ravenc Cliff

Big Lime



Schematic is not to scale

T. Ou 09/9/13

08/22/2014

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AUG 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

WR-35

API # 47-081-00951

RECEIVED

WV Division of
Environmental Protection

MAR 02 1995

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

Permitting
Office of Oil & Gas

Farm name: MCCREERY COAL LAND CO.

Operator Well No.: MCCREERY COAL #3

Location: Elevation: 3085.10

Quadrangle: HINTON

District: RICHMOND County: RALEIGH
Latitude: 6900 Feet South of 80 Deg. 57 Min. 30 Sec.
Longitude: 3300 Feet West of 37 Deg. 45 Min. Sec.

Company: CABOT OIL & GAS CORPORATION
400 FAIRWAY DRIVE, SUITE 400
CORAOPOLIS, PA 15108

Agent: DAVID G. MCCLUSKEY

Inspector: RODNEY DILLON
Permit Issued: 5/12/93
Well Work Commenced: 6/17/93
Well Work Completed: 6/23/93
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3737'
Fresh water depths (ft) 130'
Salt water depths (ft) n/a
Is coal being mined in area (Y/N)? N
Coal Depths (ft): n/a

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	40'	40'	N/A
8-5/8"	1014'	1014'	280 sks Class A
4-1/2"*	2858'	2858'	100 sks Class A

*Cement from 3737-3396, Gel from 3396-2858

OPEN FLOW DATA

Producing formation BIG LIME Pay zone depth (ft) 2728-2736
Gas: Initial open flow TSTM MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 158 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 357 psig (surface pressure) after 7 DAYS
Second Producing formation _____ 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 _____ psig (surface pressure) after _____ Hours

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 WELLBORE.

08/22/2014

For: CABOT OIL & GAS CORPORATION

By: Donald E. Hoyle

Date: 2/21/95

RAL-951

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perf Big Lime from 2,728' to 2,736'. Break dwn stage 1 w/500 gals of 15% HCL, displ w/32,100 scf N₂ @4,900 scfm; BDP - 1,510 psi; Surface ISIP - 1,380 psi.

FORMATION	TOP	BOTTOM
SALT SAND	0	692
SHALE	692	976
RAVENCLIFF	976	1000
SHALE	1000	1118
AVIS L.S.	1118	1156
SHALE	1156	1816
UPPER MAXTON SAND	1816	1842
SHALE	1842	2396
LITTLE LIME	2396	2692
BIG LIME	2692	3276
INJUN	3276	3374
SHALE	3374	3718
EST. WEIR TOP	3718	3737
TD		3737

Received

AUG 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Handwritten signature

08/22/2014

WW-4A
Revised 6-07

1) Date: July 21, 2014
2) Operator's Well Number
McCreery Coal & Land #3
3) API Well No.: 47 - 081 - 00951

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>McCreery Coal & Land Company</u>	Name <u>None</u>
Address <u>c/o E.M. Payne III</u>	Address _____
<u>130 Main St., Beckley, WV 25801</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>McCreery Coal & land Company</u>
_____	Address <u>c/o E.M. Payne III</u>
(c) Name _____	<u>130 Main St., Beckley, WV 25801</u>
Address _____	Name _____
_____	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>	_____

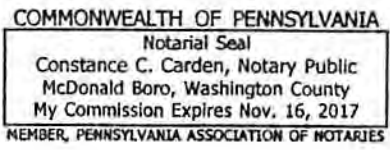
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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
 Its: Regulatory Supervisor
 Address Five Penn Center West, Suite 401
Pittsburgh, PA 15276
 Telephone (412) 249-3850



RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 21st day of July, 2014
Constance C. Carden Notary Public
 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 depprivacyofficer@wv.gov.

8100951P

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Postmark Here: JUL 21 2014
 15244 MONTICELLO BRANCH PA
 USPS

Sent To: **McCreery Coal & Land Company**
 c/o E.M. Payne, III
 130 Main Street
 Beckley, WV 25801

McCreery Coal & Land #3

PS Form 3800, August 2009

7013 3020 0001 0834 0921

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Total Post	

Postmark Here: JUL 21 2014
 15244 MONTICELLO BRANCH PA
 USPS

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

McCreery Coal & Land #3

PS Form 3800, August 2009

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 Office of Oil and Gas
 JUL 22 2014
 WV Department of
 Environmental Protection

08/22/2014

WW-9
(5/13)

Page 1 of 8
API Number 47 - 081 - 00951
Operator's Well No. McCreery Coal & Land 3

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) 0505000402 Fall Branch of New River Quadrangle 400-Hinton WV

Elevation 3094.01 County 081-Raleigh District 03-Richmond

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 Tank Blk

If so, please describe anticipated pit waste: fluids and other materials associated with well plugging activities

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 No treated pit wastes will be produced)

Will closed loop system be used? n/a

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. no drilling proposed

-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. No cutting produced during plugging operation

-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 Regulatory Supervisor - North Region

AUG 7 2014

Received

Subscribed and sworn before me this 31st day of July, 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Constance C. Carden Notary Public

My commission expires November 16, 2017

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

08/22/2014

Form WW-9

Operator's Well No. McCreery Coal & Land 3

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 11.39 Prevegetation pH 6.3

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 at 1/2 to 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]

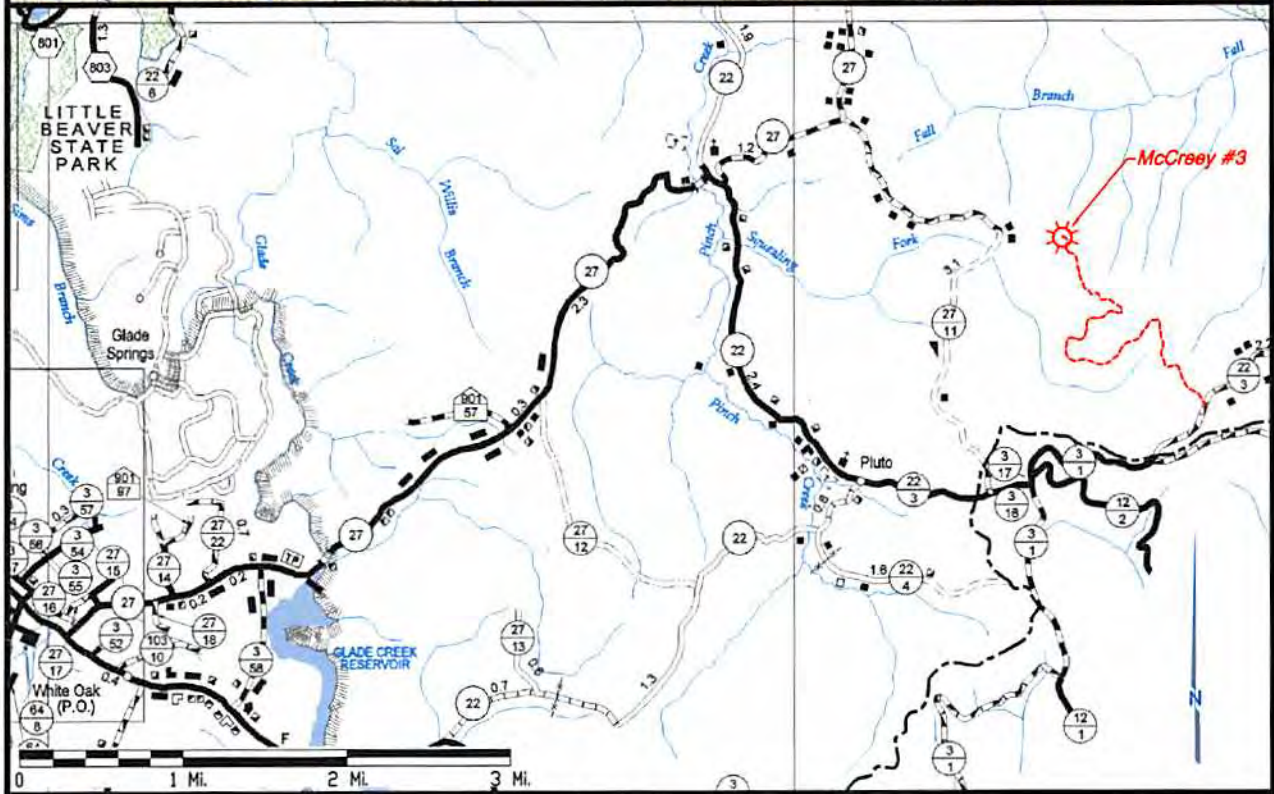
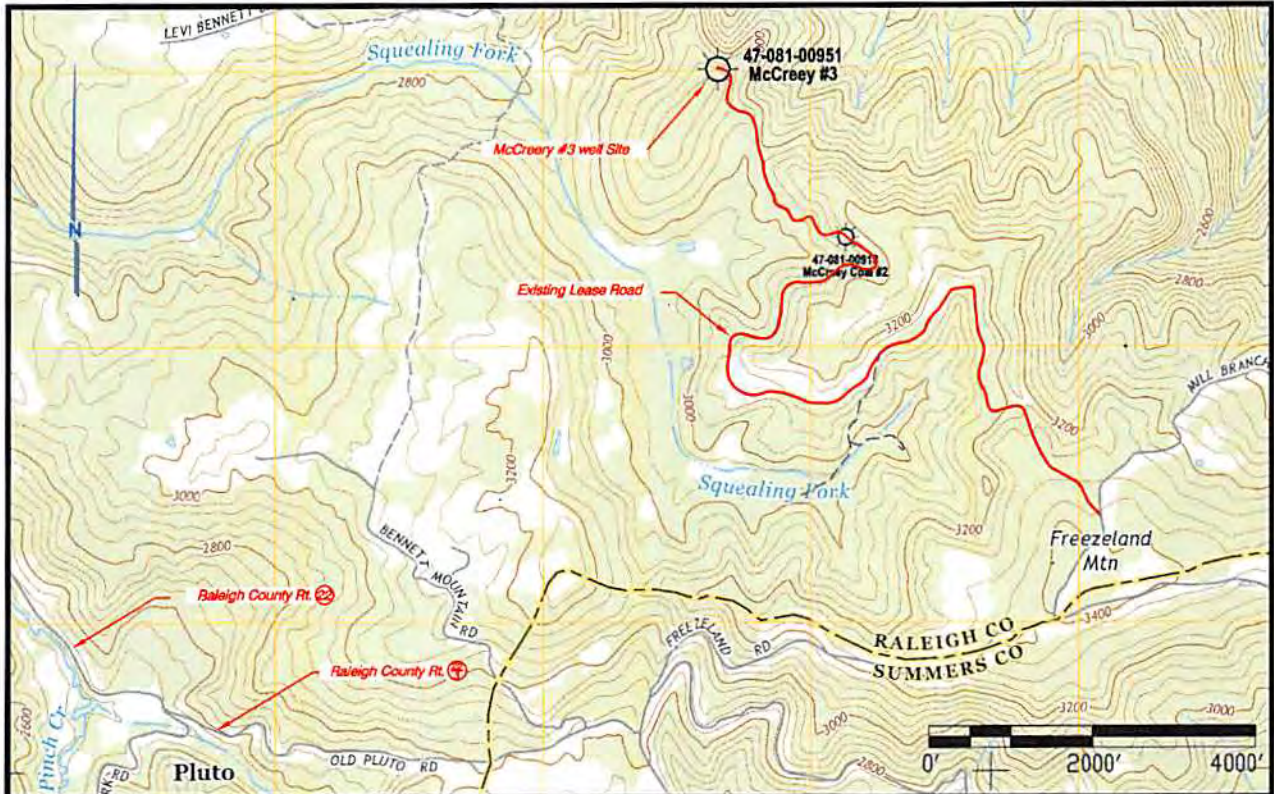
Comments: _____


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AUG 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Inspector Date: 7/28/14

Field Reviewed? Yes No

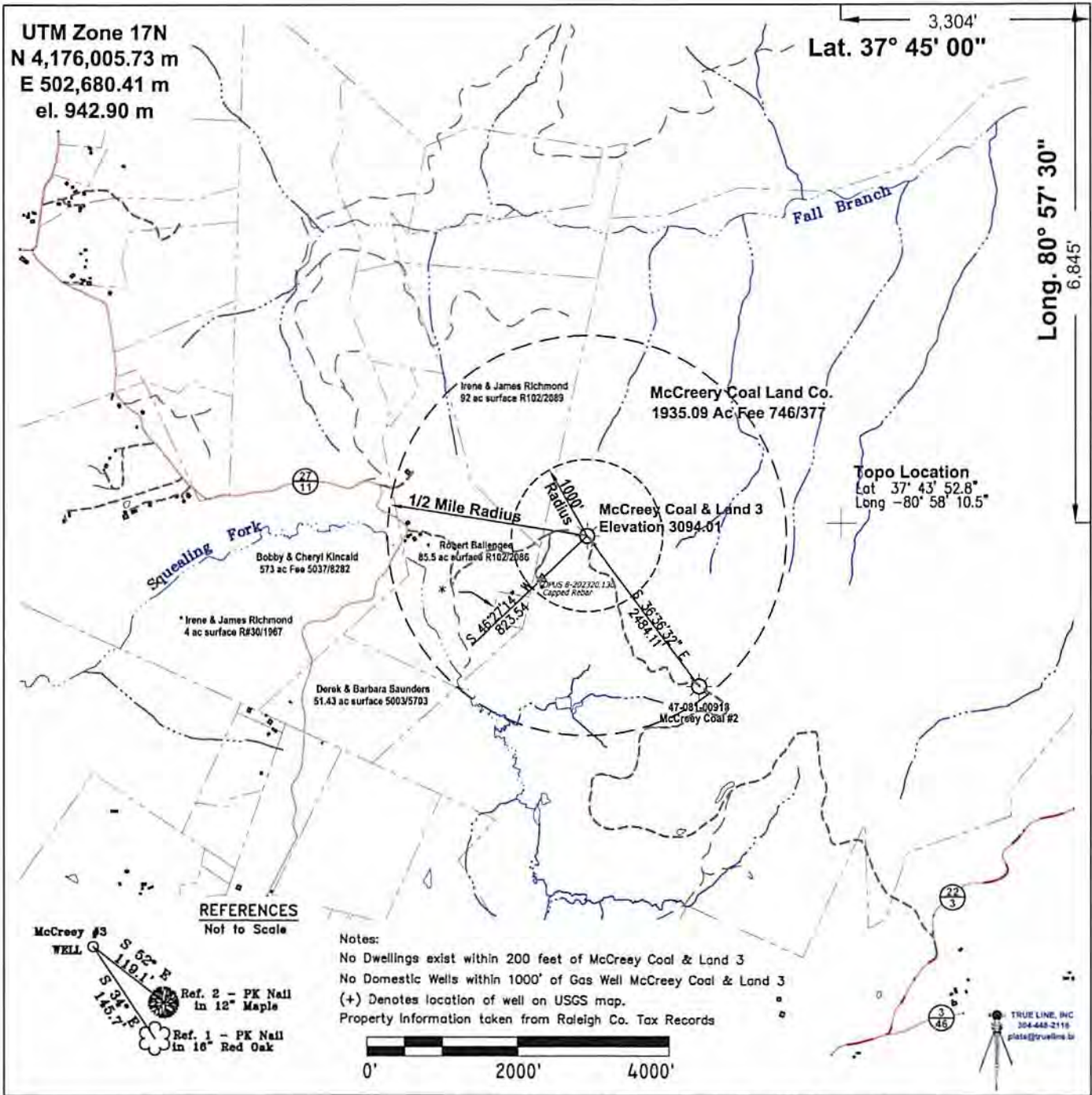


 Cabot Oil & Gas Corporation

McCreedy Coal & Land 3

Location Map - May 31, 2014

Located near Pluto in Richmond District of Raleigh County, WV



FILE #: \\filestation1\Station4D\work\Cabot Oil & Gas\
 DRAWING #: Cabot2014\McCreery3\WW-6-McCreery#3.pdf
 SCALE: see bar scale above
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: sub meter GPS location

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: *[Signature]*
 R.P.E.: _____ L.L.S.: 1065



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



DATE: May 31, 2014
 OPERATOR'S WELL #: McCreery Coal & Land 3
 API WELL #: 047 081 00951 P
 STATE COUNTY PERMIT

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

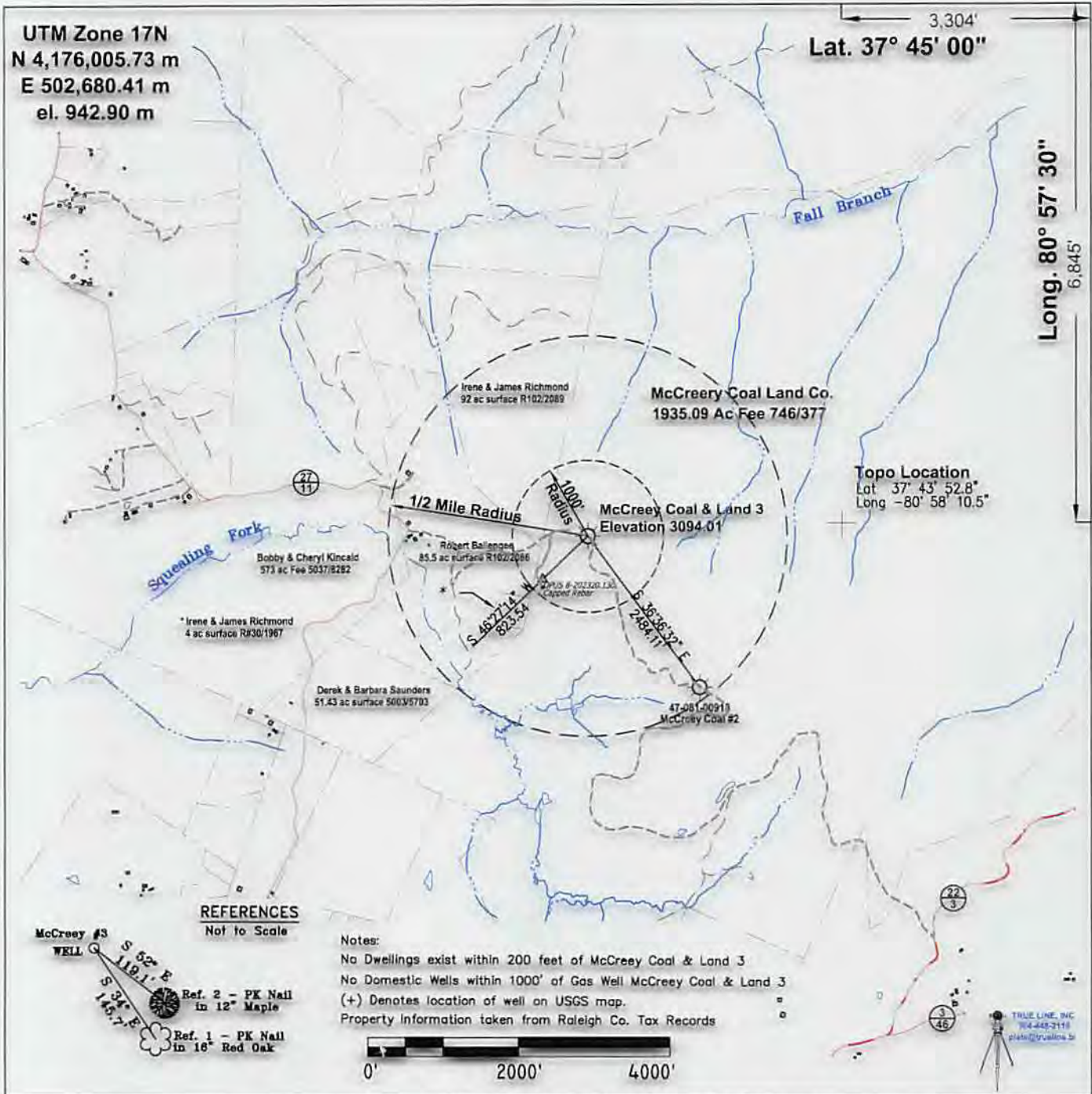
WATERSHED: Fall Branch of New River ELEVATION: 3094.01
 COUNTY/DISTRICT: 081-Raleigh / 3-Richmond QUADRANGLE: 400 - HINTON
 SURFACE OWNER: MCCREERY COAL LAND CO C/O E M PAYNE III ACREAGE: 1935.09
 OIL & GAS ROYALTY OWNER: MCCREERY COAL LAND CO C/O E M PAYNE III ACREAGE: 1935.09

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 & Big Lime ESTIMATED DEPTH: 3.737'

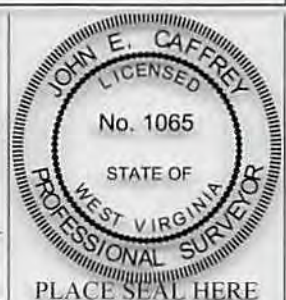
WELL OPERATOR Cabot Oil & Gas Corporation DESIGNATED AGENT Whitney Johnson
 Address Five Penn Center West, Suite 401 Address P.O. Box 450
 City Pittsburgh State PA Zip Code 15 City Glasgow State WV Zip Code 25086

08/22/2014



FILE #: \\filestation1\Station4D\work\Cabot Oil & Gas\
 DRAWING #: Cabot2014\McCreery 3\WW-6-McCreery#3.pdf
 SCALE: see bar scale above
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: sub meter GPS location

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



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



DATE: May 31, 2014
 OPERATOR'S WELL #: McCreery Coal & Land 3
 API WELL #: 047 081 00951
 STATE COUNTY PERMIT

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

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 COUNTY/DISTRICT: 081-Raleigh / 3-Richmond QUADRANGLE: 400 - HINTON

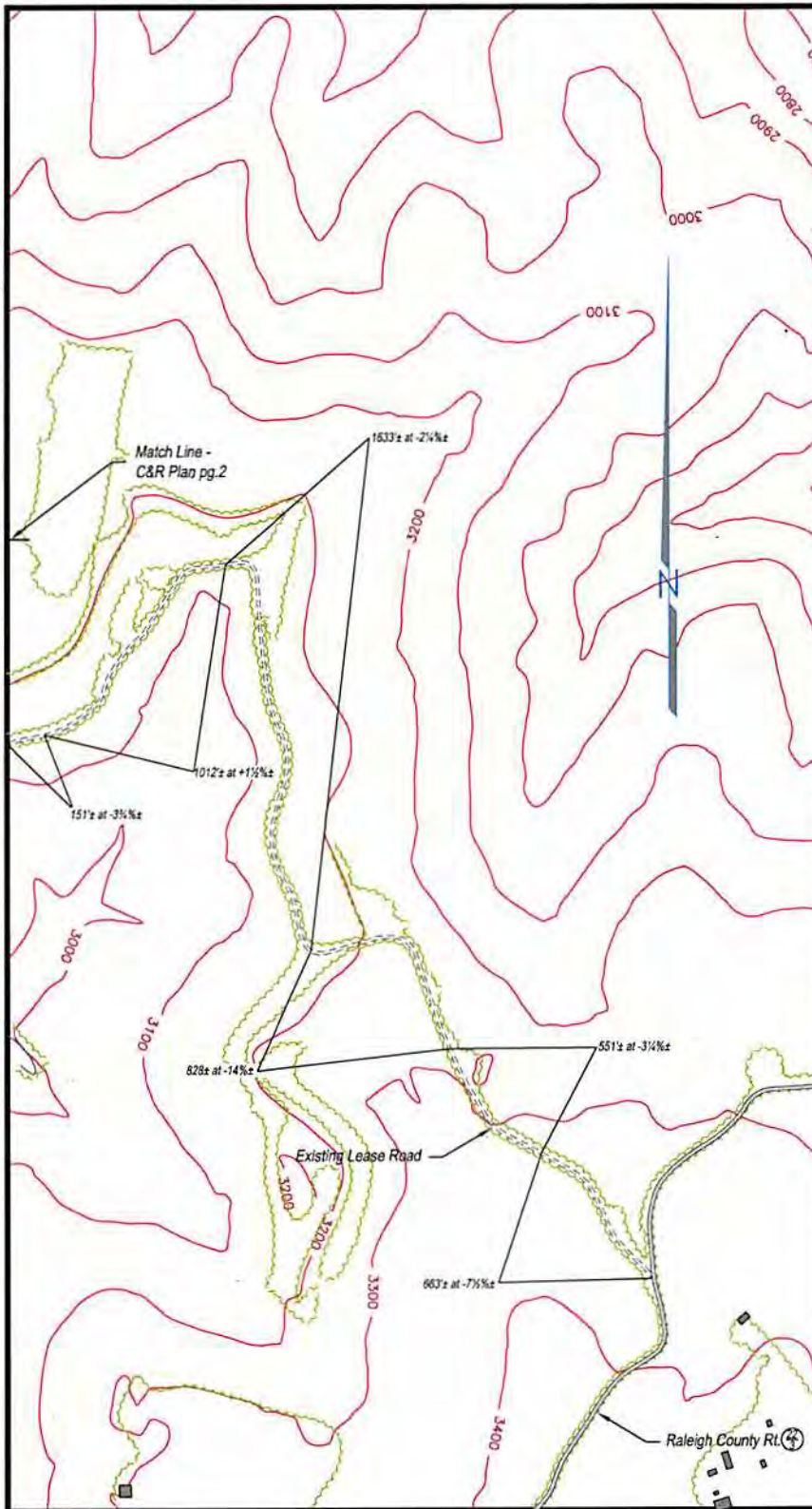
SURFACE OWNER: MCCREERY COAL LAND CO C/O E M PAYNE III ACREAGE: 1935.09
 OIL & GAS ROYALTY OWNER: MCCREERY COAL LAND CO C/O E M PAYNE III ACREAGE: 1935.09

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 & Big Lime ESTIMATED DEPTH: 3,737'

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 15 City Glasgow State WV Zip Code 25086

08/22/2014



Cabot Oil & Gas Corporation McCreery Coal & Land 3

TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Hinton - 7 1/2 Quadrangle

PROPOSED CULVERT INVENTORY (For Bid Purposes Only)

15' (Minimum) Culverts	none proposed
------------------------	---------------

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	0.54 Acres
Access Road	10.85 Acres
Approximate Total Disturbance	11.39 Acres

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.

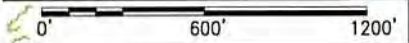
Marketable timber shall be cut and stacked at an accessible location.

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.

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



Cabot Oil & Gas Corporation McCreery Coal & Land 3

TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Hinton - 7 1/2 Quadrangle

PROPOSED CULVERT INVENTORY (For Bid Purposes Only)

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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.

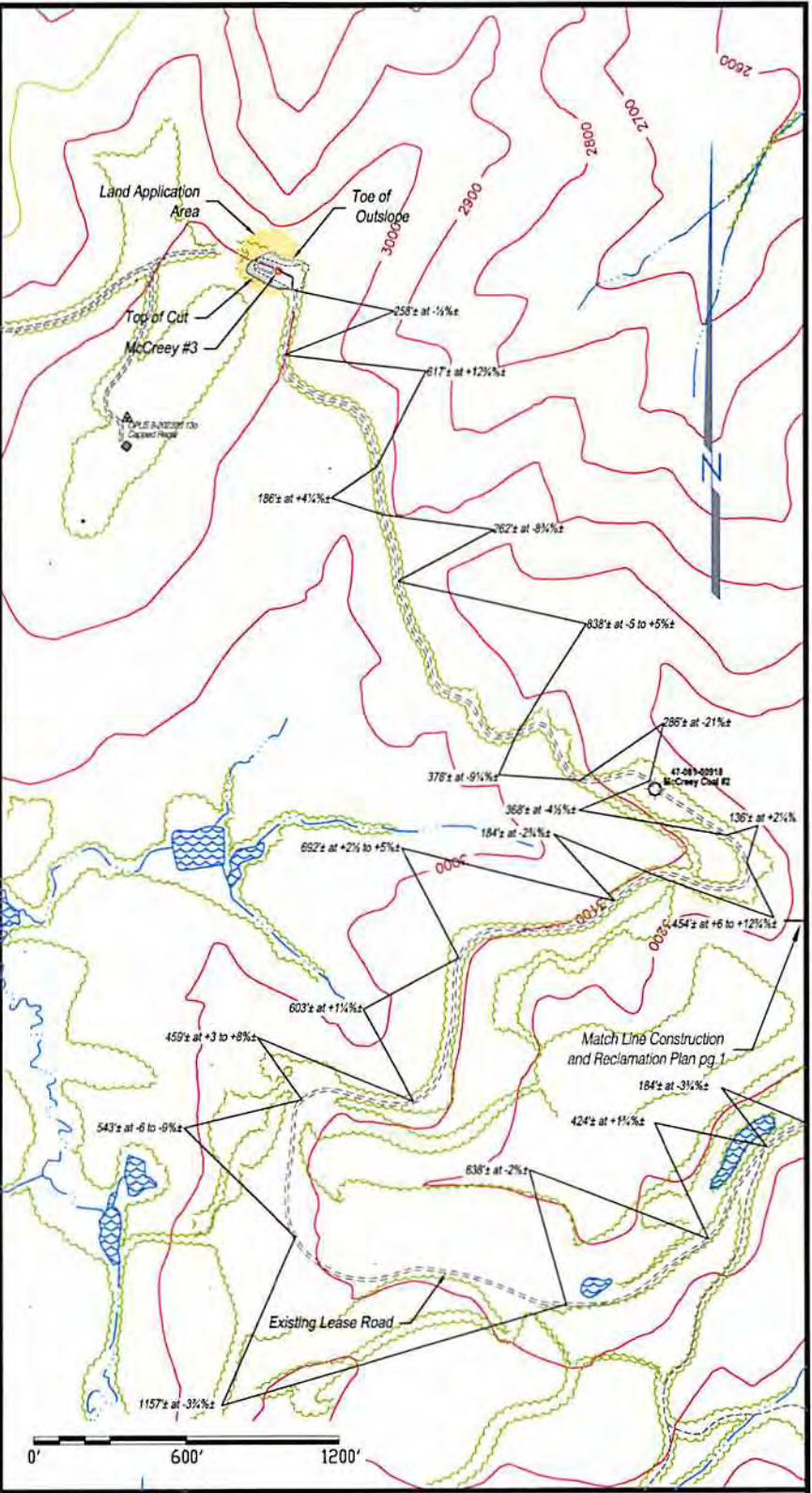
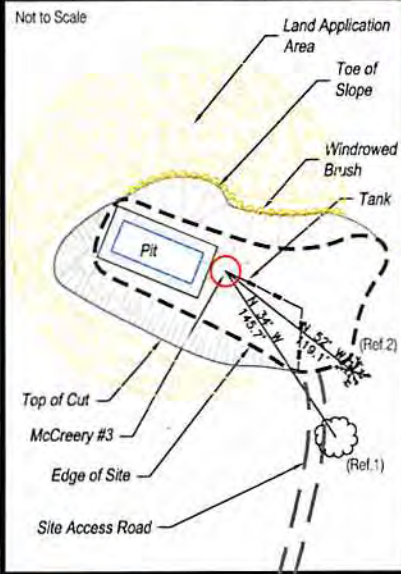
PROJECTED EARTHEN DISTURBANCE

Well Location Site	0.54 Acres
Access Road	10.85 Acres
Approximate Total Disturbance	11.39 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	

Detail Sketch for well McCreery #3



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, SITE 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

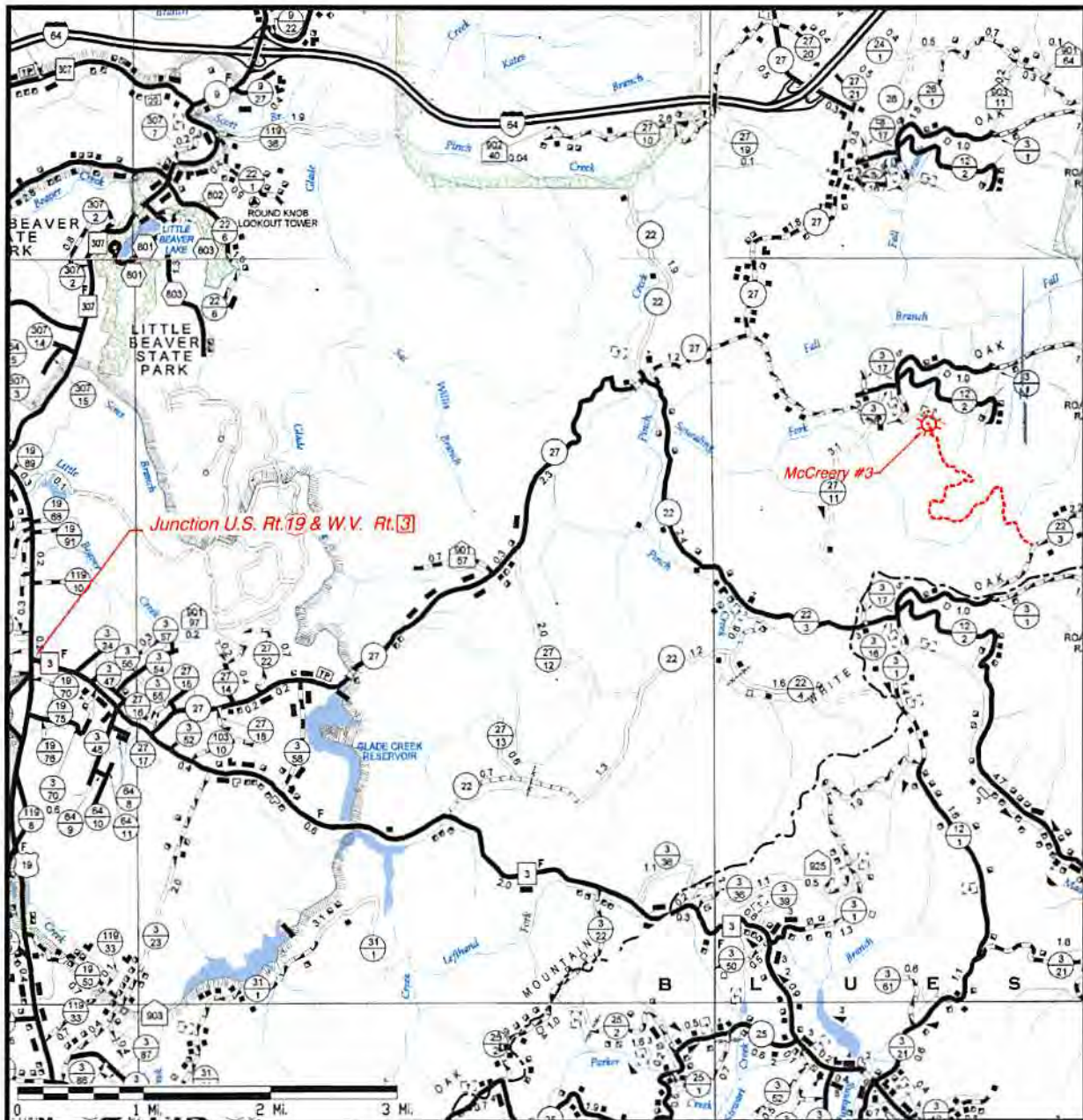
ROAD GRADE (%)	DISTANCE
1	400
2	250
5	135
10	80
15	60
20	45

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



Driving Directions:

1. Beginning in Shady Spring at the intersection of US Rt. 19 and WV Route 3, follow Rt. 3 east for 1 1/8 miles to county Rt. (27), Pluto Road on the left. Make the left onto Rt. 27, Pluto Road by a convenience store and gas station.
2. Stay on Rt. (27), Pluto Road for 6 miles to intersect with Raleigh County Route (22) Old Pluto Road. Turn right onto the Old Pluto Road. Note: This intersection can be reached from Interstate 64, exit 133, Pluto Road. Take Rt. (27), (unpaved) southwesterly 3.8 miles to Rt. (22).
3. Follow Rt. (22) 2.4 miles to the community of Pluto, then left 1.2 miles on County Rt. (24), Donahoe Road. Go left at the "T" for 444' to a fork.
4. At the fork, bear left on Will Dodd Road (still Rt. (24)) for 1.1 miles. At the next fork bear left on Mill Branch Road (still Rt. (24)) for 0.3 miles.
5. After 0.3 miles on Mill Branch Rd., turn left onto the existing lease road for 2.6 miles to the McCreery Coal & Land 3 well site.

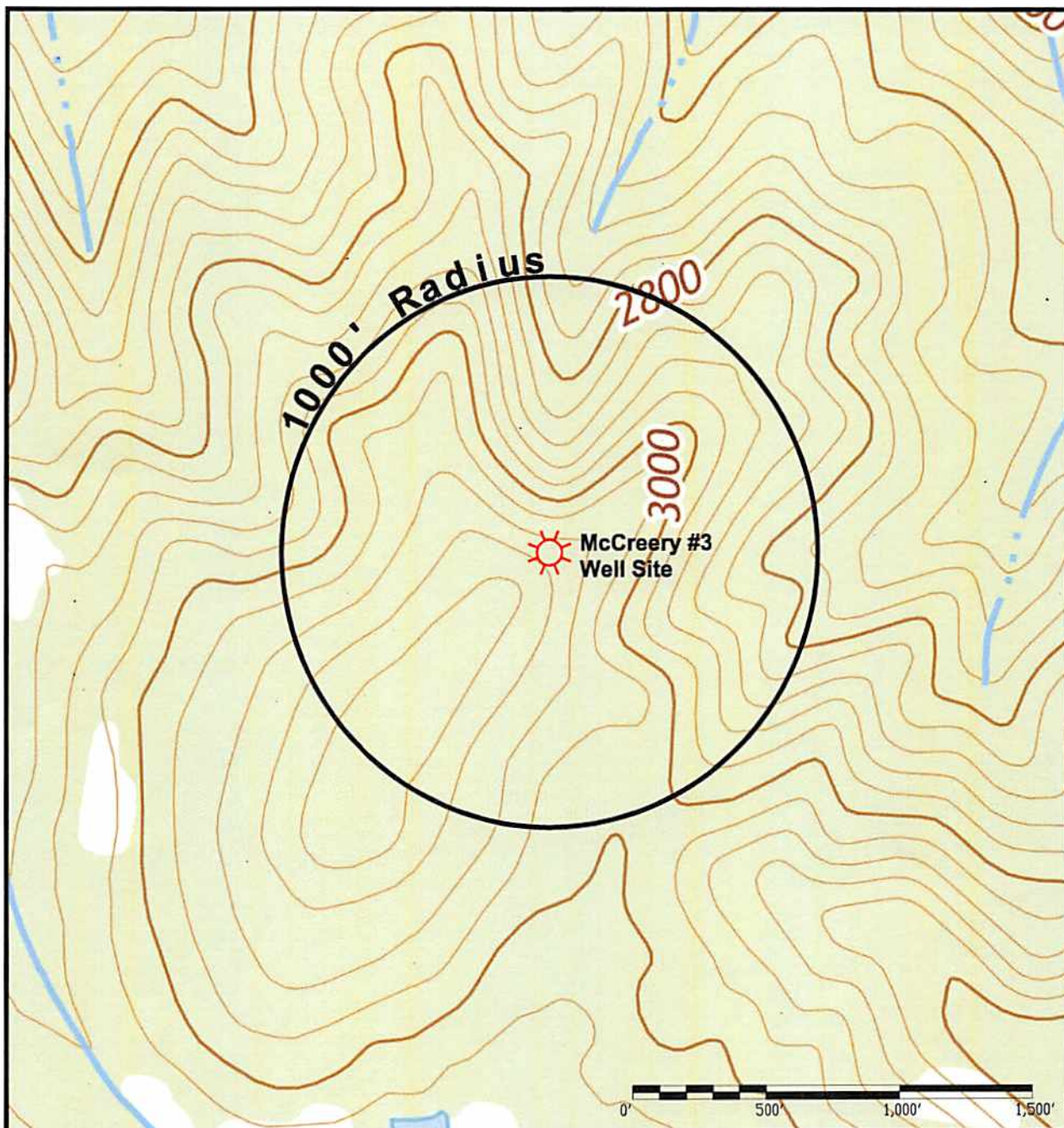


Cabot Oil & Gas Corporation

McCreery Coal & Land 3

May 31, 2014
Driving Directions

Located near Pluto in Richmond District of Raleigh County, West Virginia.




Hinton, WV 7½' USGS 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.

Legend:

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

 Cabot Oil & Gas Corporation

McCreery Coal & Land 3

Located near Pluto in Richmond District of Raleigh County, West Virginia

8100951A



CERTIFIED MAIL

July 21, 2014

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

Re: McCreery Coal & Land #3
Richmond District, Raleigh County, WV
API # 47-081-00951
Written Application to plug and abandon wellbore

Dear Mr. Kennedy:

Enclosed are the following forms for the subject well:

- Form WW-4A Notice of Application to Plug and Abandon Well (1 copy)
- Form WW-4B Application for a Permit to Plug and Abandon (1 copy)
- Well Location Plat Certified Copy of WVDEP Well Location Plat
- Form WW-9 Reclamation Plan and Site Registration Application (1 copy)

Copies of the Well Permit Application and Voluntary Statement of No Objection have been sent to the appropriate surface owner(s) and coal operator(s), owner(s) and lessee(s) for signature.

Please make necessary recommendations and sign the Reclamation Plan before forwarding to Chief, Division of Oil & Gas, 601 57th Street, Charleston, WV 25304

If you have any questions or need additional information, please contact me at 412-249-3850.

Sincerely,

Kenneth L. Marcum
Regulatory Supervisor

Received

AUG 7 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

08/22/2014