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

May 12, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9900588, 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 penalities 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: 2-917
Farm Name: SMITH, WILLIAM & POLLY
API Well Number: 47-9900588
Permit Type: Plugging
Date Issued: 05/12/2016

9900588P

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

9900588P

WW-4B
Rev. 2/01

1) Date April 25, 2016
2) Operator's
Well No. Polly Smith #2
3) API Well No. 47-099-00588

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 1,154.30' Watershed Moses Fork
District Lincoln County Wayne Quadrangle Wilsondale

6) Well Operator Cabot Oil & Gas Corporation
Address 2000 Park Lane, Ste., 300
Pittsburgh, PA 15275

7) Designated Agent Phillip Hill - Cabot Oil & Gas Corporation
Address 900 Lee Street East, Suite 1500
Charleston, WV 25301

8) Oil and Gas Inspector to be notified
Name Allen Flowers
Address 165 Grassy Lick Lane
Liberty, WV 25124

9) Plugging Contractor
Name Contractor Services, Inc.
Address 929 Charleston Road
Spencer, WV 25276

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

See Attached Sheet

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

Work order approved by inspector _____ Date 5-5-2016

99 00588P

POLLY SMITH #2
API # 47 - 099 – 00588
PLUGGING PROCEDURE

Current Configuration
DTD @ 3313'
8-1/4" casing @ 246'
6-5/8" casing @ 1594'
Salt water @ 1172'
Coal @ 128' – 130'
Brown Shale @ 2430' – 3313' shot from 2852' to 3313'
Big Lime @ 1588' – 1780' w/ gas show
Salt Sand @ 930' – 1172'

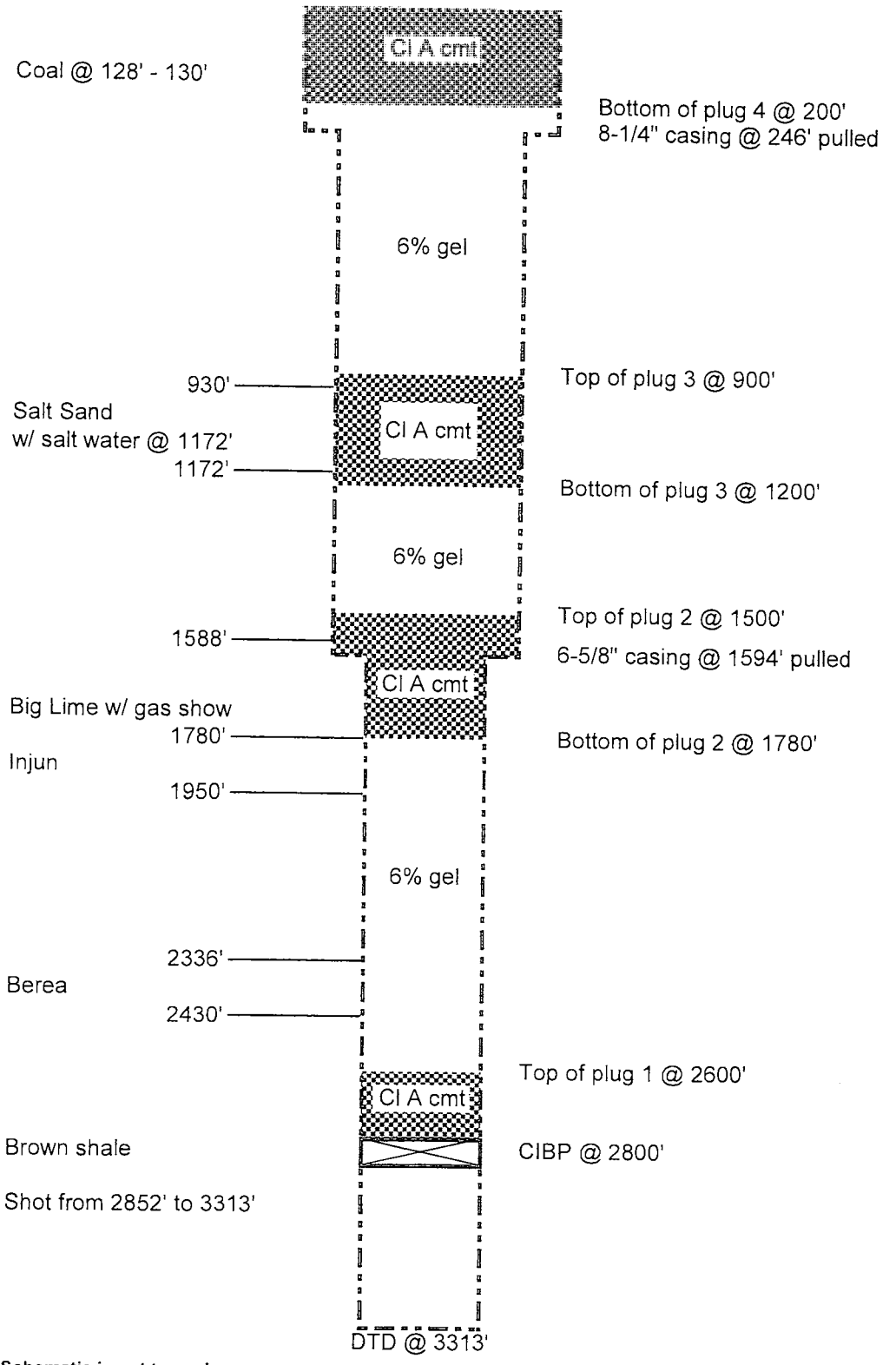
PROCEDURE

1. Contact Danville 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 6-5/8" X 8-1/4" annulus.
4. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
5. Unpack wellhead.
6. Run rig tools to determine well TD and note any fluid level.
7. MIRU Wireline unit.
8. TIH w/ CIBP and set at 2800'
9. TOOH w/ Wireline.
10. MIRU Cementing Company.
11. TIH with 2-3/8" work string to CIBP.
12. Pump 40 bbls of 6% Gel followed by 35 sacks of Class A cement for cement plug 1 from 2800' to 2600'.
13. Displace with 10 bbls of 6% Gel.
14. POOH with work string and let cement plug set for a minimum of 4 hours. 4 hrs
15. Pull 6-5/8" and 8-1/4" casing strings.
16. TIH with 2-3/8" work string to 1780' and pump 40 bbls 6% gel followed by 60 sacks of Class A cement for cement plug 2 from 1780' to 1500'.
17. Displace with 5 ¾ bbls of 6% Gel.
18. Pull work string to 1200' and pump 85 sks of Class A cement for plug 3 from 1200' to 900'.
19. Displace w/ 3 ½ bbls of 6% Gel.
20. Pull work string up to 200' and pump 100 sks of Class A cement for plug 4 from 200' to surface.
21. TOOH with work string and lay down
22. RDMO Cement company
23. Erect Monument according to Law.
24. RDMO.

I spoke with Mr. Morgan about changes on 5-4-2016 at 11:30 Am.

9900588P

Polly Smith #2
API 47-099-00588
PROPOSED CONFIGURATION



Schematic is not to scale

T. Ott 09/18/13

AF. 5-5-16

9900588P

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Way 588
Naugtauck Quad.

Gas Well
CASING & TUBING

Company	McKinley Trent, Trustee			
Address	1400 5th Ave., Huntington, 1, W.Va.	8¼	246	246
Farm	Wm. and Polly Smith Acres 225	6 5/8	1594'6	Same
Location	Turkey Fork, Twelve Pole Cr.			
Well No.	Trent #4 Elev. 950'	Coal at 128' 130'		
District	Lincoln Wayne County			
Surface	Several People			
Mineral	Wm. and Polly Smith, Ethel, W.Va.			
Commenced	July 23,1948			
Completed	Sept. 11,1948			
Date Shot	Sept. 13, 2852 to 3313 with 5,000 lbs. gelatin			
Open flow	20/10ths W in 1"			
Volume	53,000 C.F.			
Rock Pressure	330 lbs. 24 hrs.			
Salt Water	930'; 1172'			

Surface	0	60	
Sand	60	105	
Slate	105	128	
Coal	128	130	
Slate	130	157	
Sand	157	390	
Slate	390	410	
Lime Shells	410	450	
Slate	450	655	
Sand	655	675	
Slate & Shells	675	930	
Salt Sand	930	1172	
Black Lime	1172	1210	
Sand	1210	1273	
Slate	1273	1358	
Maxon Sand	1358	1366	
Slate	1366	1418	
Sand	1418	1430	
Red Rock	1430	1452	
Slate & Shells	1452	1515	
Sand	1515	1560	
Little Lime	1560	1588	
Big Lime	1588	1780	Gas
Injun Sand	1780	1950	
Slate & Shells	1950	2173	
Sand	2173	2183	
Slate & Shells	2183	2310	
Coffee Shale	2310	2336	
Berea Sand	2336	2430	
Brown Shale	2430	2505	
White Slate	2505	2825	
Brown Shale	2825	2860	
Gray Shale	2860	3010	
Brown Shale	3010	3302	
White Slate	3302	3313	
Total Depth	3313		

RECEIVED
Office of Oil and Gas
MAY 02 2016
WV Department of
Environmental Protection

9900588P

WW-4A
Revised 6-07

1) Date: April 25, 2016
2) Operator's Well Number
Polly Smith #2

3) API Well No.: 47 - 099 - 00588

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name See Exhibit "A" ✓
Address

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator
Name See Exhibit "C"
Address

(b) Coal Owner(s) with Declaration
Name See Exhibit "B"
Address

Name
Address

6) Inspector Allen Flowers ✓
Address 165 Grassy Lick Lane
Liberty, WV 25124
Telephone (304) 552-8308

(c) Coal Lessee with Declaration ✓
Name Don L. Mahanes
Address 1611 Story Road
Louisville, KY 40206

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 2000 Park Lane, Suite 300
Pittsburgh, PA 15275
Telephone (412) 249-3850

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 25th day of April, 2016
Constance C. Carden Notary Public
My Commission Expires November 16, 2017

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Office of Oil and Gas
MAY 02 2016
WV Department of
Environmental Protection

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.

9900588P

April 25, 2016

EXHIBIT "A"

SURFACE OWNERS
POLLY SMITH #2
API #47-099-00588

Oscar Marcum
271 Upper Stone Branch Rd.
Fort Gay, WV 25514

Woodrow Marcum
P.O. Box 253
Crum, WV 25669

Florene Damron-Stoltz
368 Stanton Avenue
Columbus, Ohio 43214

Mildred F. Parsley
887 Salisbury Rd.
Columbus, Ohio 43204

Dorothy Perry
4517 Elder Court
Hilliard, Ohio 43026

Willie Marcum
67 North Eureka Avenue
Columbus, Ohio 43204

Lacy Carter Marcum
1907 County Road 146
Ashley, Ohio 43003

Linda M. Ison
236 Overholt Drive
Virginia Beach, VA 23462

Rhoda Marcum Brock
705 Corapeake Drive
Chesapeake, VA 23322

Kimberly Esposito
7837 Oak River Drive
Grosse Ile, Michigan 48138

John & Sandra Arnold
P.O. Box 124
Sturgis, KY 42459

Eugene P. Husarick & Norma B. Gillman
P.O. Box 1
Wilsondale, WV 25669

Raymond Charles Messer & William Alan Messer
HC 84 Box 49A
Wilsondale, WV 25699

9900588P

April 25, 2016

EXHIBIT "B"

COAL OWNERSHIP
POLLY SMITH #2
API #47-099-00588

Lois Damron
136 Bethesda Dr.
Ona, WV 25545

Charles Larry Smith
c/o Lois Damron
136 Bethesda Dr.
Ona, WV 25545

Lisa Smith
c/o Lois Damron
136 Bethesda Dr.
Ona, WV 25545

Michael Smith
c/o Lois Damron
136 Bethesda Dr.
Ona, WV 25545

Tonya Smith
c/o Lois Damron
136 Bethesda Dr.
Ona, WV 25545

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WV Department of
Environmental Protection

9900588P

April 25, 2016

EXHIBIT "C"

COAL OPERATORS
POLLY SMITH #2
API #47-099-00588

Appalachian Mining & Rec.
1316 Porter Road
Cattlesburg, KY 41129

Argus Energy WV, LLC
P.O. Box 190
Lovely, KY 41231

Arch Reclamation Services, Inc.
City Place One, Suite 300
St. Louis, MO 63141

9900588P

WW-9
(2/15)

API Number 47 - 099 - 00588
Operator's Well No. Polly Smith #2

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 08145

Watershed (HUC 10) Moses Fork of the West Fk. of Twelvepole Creek Quadrangle Wilsondale

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

Will a pit be used? Yes ☐ No ☑

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:

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS & DISPOSED OF PROPERLY. gmm

_____ 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? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? 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 cuttings 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? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 _____

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

RECEIVED
Office of Oil and Gas
MAY 02 2016
WV Department of Environmental Protection

Subscribed and sworn before me this 25th day of April, 2016

Constance C. Carden Notary Public

My commission expires 11/16/2017

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

9900588P

Form WW-9

Operator's Well No. Polly Smith #2

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 3.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20/20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Pulp Fiber at 1000 to 1500 lbs. ~~Tons~~/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)		(Grain Rye - 100) (Red Clover - 5) (Fescue - 40)	
(Annual Rye - 20) (White Clover - 5)		(Annual Rye - 20) (White Clover - 5)	
(Perennial Rye - 10) (Alta Sweet Clover - 5)		(Perennial Rye - 10) (Alta Sweet Clover - 5)	
(Yellow Clover - 5) (Birdsfoot Trefoil - 10)		(Yellow Clover - 5) (Birdsfoot Trefoil - 10)	

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments:

OK -

Title: Oil and Gas Inspector Date: 5-5-2016

Field Reviewed? (X) Yes ( ) No

9900588P

GENERAL NOTES:

THIS DRAWING REPRESENTS 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 UNFORESEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.

ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL.

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/ PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND 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.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINTS OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK.

PERMANENT CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES.

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WVDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

TABLE 11-4 SPACING OF CROSS DRAINS	
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPACING OF CULVERTS	
ROAD GRADE (%)	DISTANCE (FT)
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100

1-800-245-4848

DRAWING LEGEND

PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT/WASTE APP. AREA

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Office of Oil and Gas
MAY 02 2016
WV Department of
Environmental Protection

DRIVING DIRECTIONS FOR POLLY SMITH 2

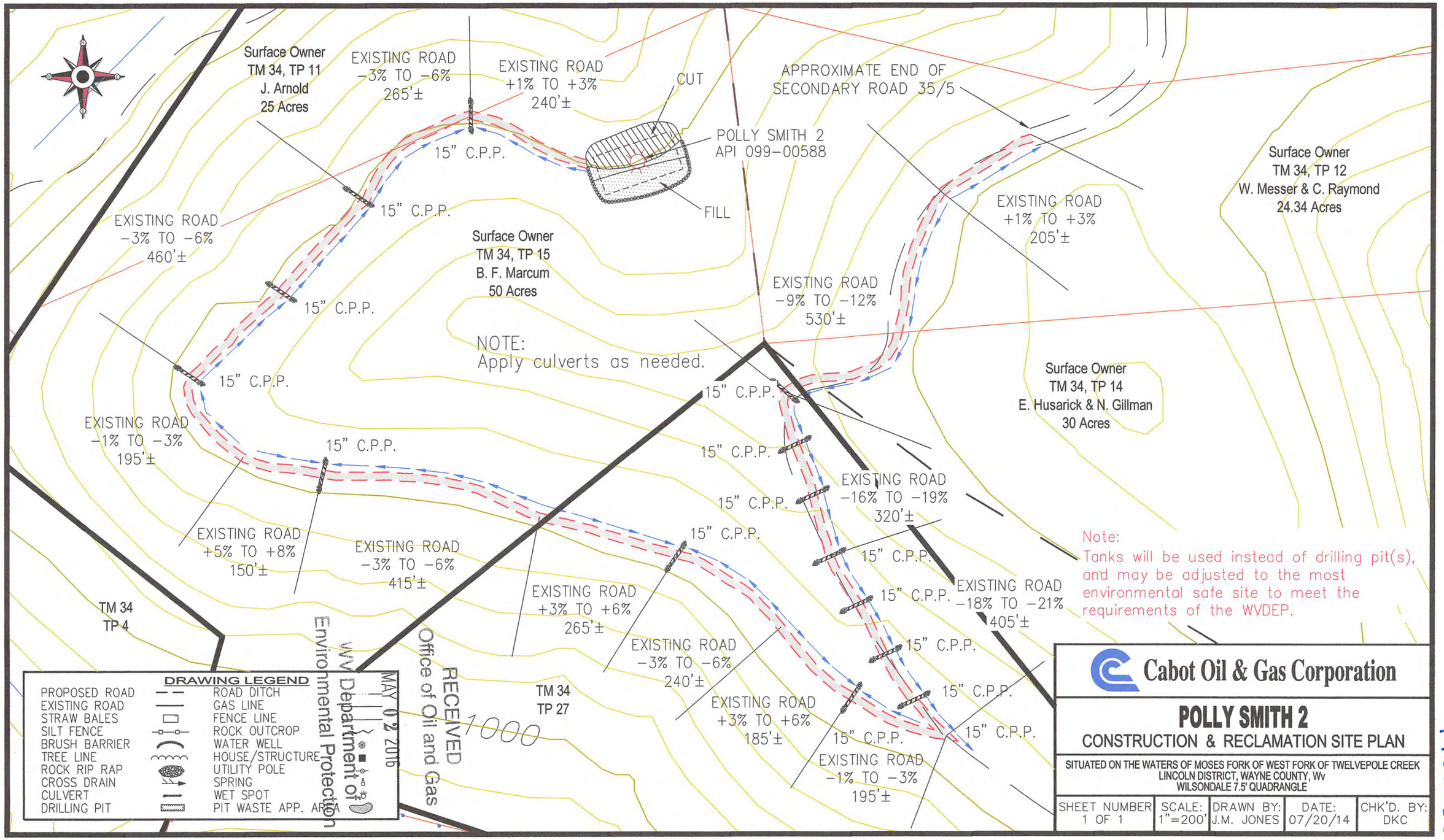
1.) FROM WAYNE, WV DRIVE SOUTH ON RT. 152 FOR APPROXIMATELY 26± MILES TO THE INTERSECTION OF SECONDARY ROUTE 35, (MISSOURI BRANCH), IN DUNLOW, LOCATED ON THE LEFT-HAND SIDE OF THE ROAD.
2.) TURN LEFT ONTO SECONDARY ROUTE 35 AND GO APPROXIMATELY 1.9± MILES TO SECONDARY ROUTE 35/5 (TICK RIDGE ROAD).
3.) TURN RIGHT ONTO SECONDARY ROUTE 35/5 AND GO APPROXIMATELY 6.5± MILES TO THE END OF SECONDARY ROUTE 35/5 AND THE BEGINNING OF THE ACCESS ROAD.
4.) CONTINUE ON THE EXISTING ACCESS ROAD APPROXIMATELY 0.8± MILES TO THE EXISTING WELL SITE AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

AF 5-5-16

Cabot Oil & Gas Corporation

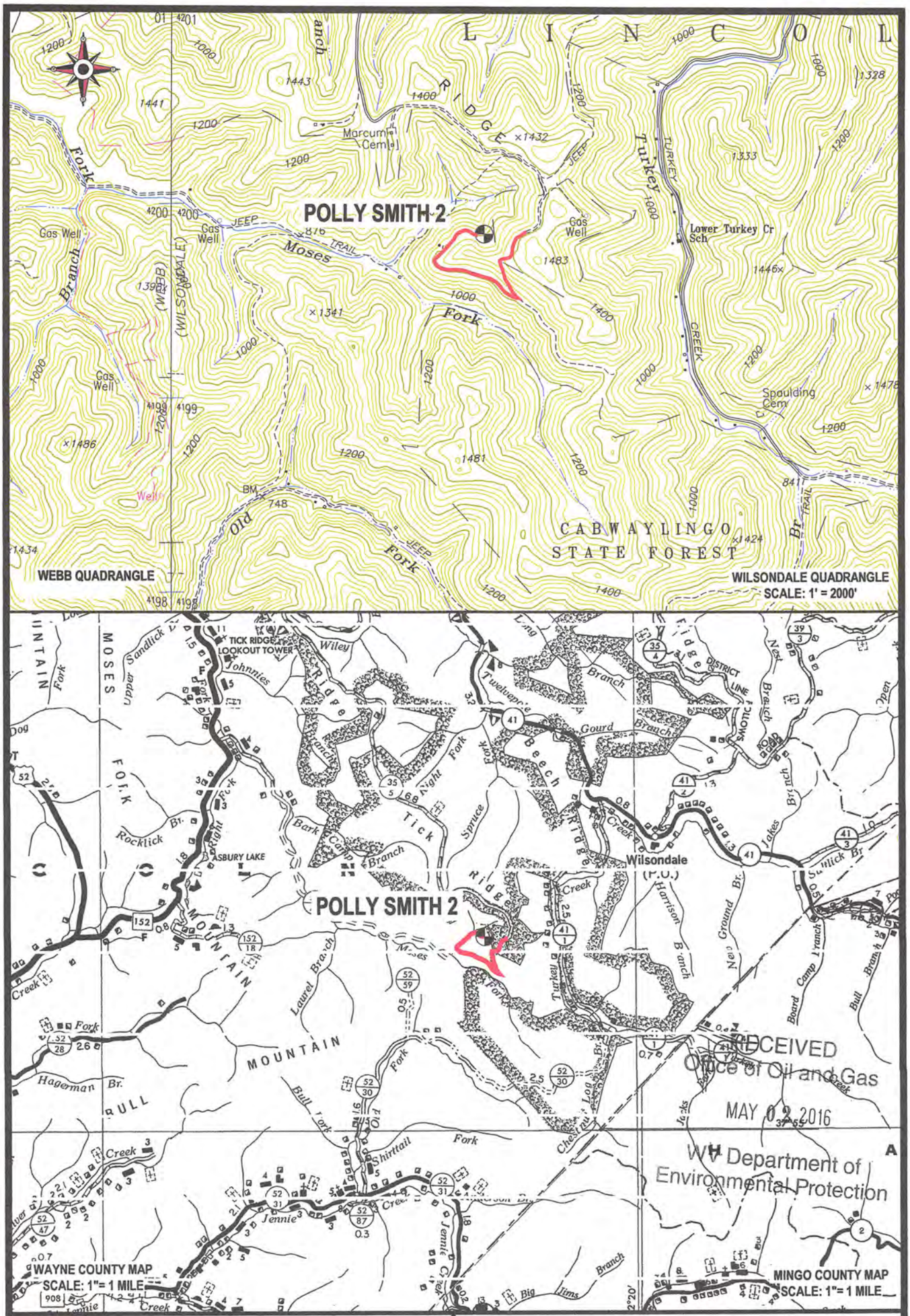
POLLY SMITH 2

LINCOLN DISTRICT, WAYNE COUNTY, WV
WILSONDALE 7.5' QUADRANGLE


Surface Owner
TM 34, TP 11
J. Arnold
25 Acres
EXISTING ROAD
−3% TO −6%
265'±
EXISTING ROAD
+1% TO +3%
240'±
CUT
POLLY SMITH 2
API 099−00588
FILL
APPROXIMATE END OF
SECONDARY ROAD 35/5
Surface Owner
TM 34, TP 12
W. Messer & C. Raymond
24.34 Acres
EXISTING ROAD
+1% TO +3%
205'±
15" C.P.P.
EXISTING ROAD
−3% TO −6%
460'±
Surface Owner
TM 34, TP 15
B. F. Marcum
50 Acres
EXISTING ROAD
−9% TO −12%
530'±
NOTE:
Apply culverts as needed.
Surface Owner
TM 34, TP 14
E. Husarick & N. Gillman
30 Acres
EXISTING ROAD
−1% TO −3%
195'±
EXISTING ROAD
−16% TO −19%
320'±
EXISTING ROAD
+5% TO +8%
150'±
EXISTING ROAD
−3% TO −6%
415'±
EXISTING ROAD
−18% TO −21%
405'±
EXISTING ROAD
+3% TO +6%
265'±
EXISTING ROAD
−3% TO −6%
240'±
EXISTING ROAD
+3% TO +6%
185'±
EXISTING ROAD
−1% TO −3%
195'±
TM 34
TP 4
TM 34
TP 27
Note:
Tanks will be used instead of drilling pit(s), and may be adjusted to the most environmental safe site to meet the requirements of the WVDEP.
DRAWING LEGEND
PROPOSED ROAD
EXISTING ROAD
STRAW BALES
SILT FENCE
BRUSH BARRIER
TREE LINE
ROCK RIP RAP
CROSS DRAIN
CULVERT
DRILLING PIT
ROAD DITCH
GAS LINE
FENCE LINE
ROCK OUTCROP
WATER WELL
HOUSE/STRUCTURE
UTILITY POLE
SPRING
WET SPOT
PIT WASTE APP. AREA
RECEIVED
Office of Oil and Gas
MAY 02 2016
WV Department of
Environmental Protection
Cabot Oil & Gas Corporation
POLLY SMITH 2
CONSTRUCTION & RECLAMATION SITE PLAN
SITUATED ON THE WATERS OF MOSES FORK OF WEST FORK OF TWELVEPOLE CREEK
LINCOLN DISTRICT, WAYNE COUNTY, Wv
WILSONDALE 7.5' QUADRANGLE
SHEET NUMBER 1 OF 1
SCALE: 1"=200'
DRAWN BY: J.M. JONES
DATE: 07/20/14
CHK'D. BY: DKC

4900588P

9900588P



RECEIVED
Office of Oil and Gas
MAY 02 2016
WV Department of
Environmental Protection

Cabot Oil & Gas Corporation

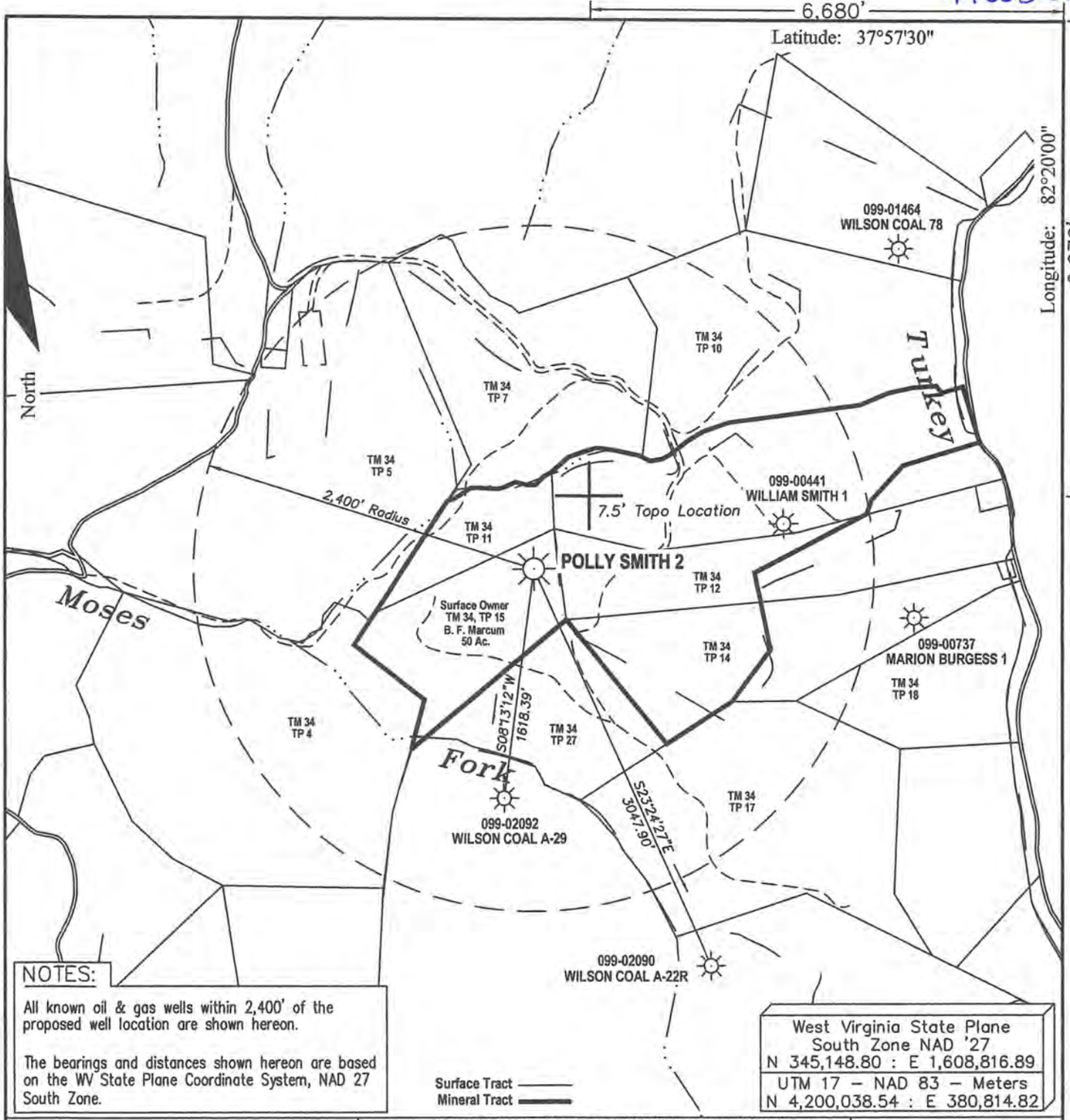
POLLY SMITH 2
LOCATION MAP

LOCATED ON THE WATERS OF MOSES FORK OF
THE WEST FORK OF TWELVEPOLE CREEK
LINCOLN DISTRICT, WAYNE COUNTY, WV
WILSONDALE 7.5' QUADRANGLE

CUNNINGHAM
LAND SURVEYING & MAPPING SERVICES, LLC
5213 STEPHEN WAY
CROSS LANES, WEST VIRGINIA 25313
VOICE (304) 561-4129 FAX (304) 776-0703
E-MAIL ADDRESS DKCUNNINGHAM@SUDDENLINK.NET

PROJECT NO. CABOT	DWG. POLLY SMITH 2 LOC.DWG	
DATE: 07/20/14	SCALE: AS NOTED	CHK'D BY: D.K.C.
DRAWN BY: J. JONES	FILE: C:\PROJECT FOLDER\CABOT	

9900588P



NOTES:

All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

Surface Tract ——
Mineral Tract ——

West Virginia State Plane
South Zone NAD '27
N 345,148.80 : E 1,608,816.89
UTM 17 – NAD 83 – Meters
N 4,200,038.54 : E 380,814.82

FILE #:

DRAWING #: Polly Smith 2 ww6

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY: 1 : 12,729

PROVEN SOURCE OF ELEVATION: Global Positioning System (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 ENVIROMENTAL PROTECTION.

Signed:

R.P.E.: L.L.S.: 1993

GREGORY A. PERKINS LICENSED No. 1993 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

RECEIVED
Office of Oil and Gas
MAY 02 2016
WV Department of Environmental Protection

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: May 5, 2014

OPERATOR'S WELL #: Polly Smith 2

API WELL #: 47 (STATE) 099 (COUNTY) 00588P (PERMIT)

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

WATERSHED: Moses Fork ELEVATION: 1,154.30'

COUNTY/DISTRICT: Wayne / Lincoln QUADRANGLE: Wilsondale

SURFACE OWNER: B. F. Marcum Heirs ACREAGE: 50

OIL & GAS ROYALTY OWNER: Polly Smith Heirs ACREAGE: 225

LEASE #: 47-2642 DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

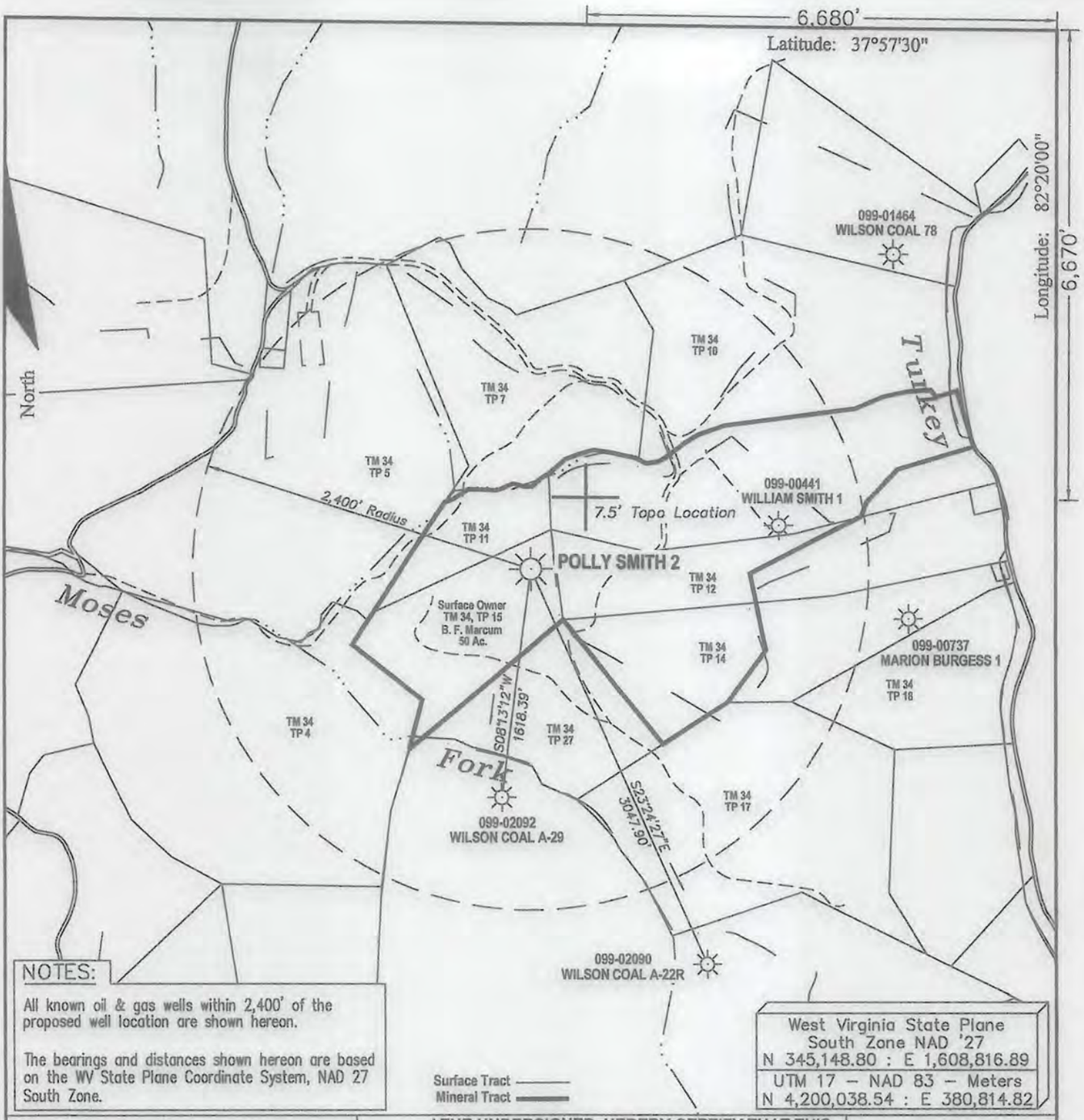
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: ESTIMATED DEPTH:

WELL OPERATOR Cabot Oil & Gas Corp.
Address 2000 Park Lane, Suite 300
City Pittsburgh State PA Zip Code 15275

DESIGNATED AGENT Phillip Hill
Address 900 Lee Street, Suite 1500
City Charleston State WV Zip Code 25301



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South Zone NAD '27
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