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

November 03, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5500275, 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: BLUE JAY 3
Farm Name: LYNCH, MICHAEL J. JR., ET
API Well Number: 47-5500275
Permit Type: Plugging
Date Issued: 11/03/2015

Promoting a healthy environment.

5500275P

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.

5500275P

WW-4B
Rev. 2/01

1) Date October 19, 2015
2) Operator's Well No. Blue Jay #3
3) API Well No. 47-055-00275

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 3,235.93' Watershed Cub Branch of Camp Creek
District Jumping Branch County Mercer Quadrangle Flat Top

6) Well Operator Cabot Oil & Gas Corporation
Address 2000 Park Lane, Suite 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 Gary Kennedy
Address P.O. Box 268
Nimitz, WV 25978

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

Received
OCT 30 2015
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 10/22/15

5500275P

BLUE JAY #3
API # 47 – 055 – 00275
PLUGGING PROCEDURE

Current Configuration
LTD @ 4371' KB
13-3/8" conductor @ 30' KB, not cemented
9-5/8" - 26# LS casing @ 583' KB, cemented to surface
4 $^1/_2$" – 10.5# M-60 casing @ 3445' KB w/ TOC @ 2867'
4 ½" was grouted w/ 197 cu. ft. of 50/50 Pozmix – estimated TOC @ 1650'
Perfs: 3080' – 3100'
Pencil Cave: 2994' – 3524'
Little Lime formation: 2870' – 2994'
Maxton formation: 2379' – 2400'
Coal @ 87' – 90', 155' – 158', 370' – 374', 382' – 384', & 402' – 404'
Fresh water @ 30' & 162'

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 9 5/8" annulus.
5. Unpack wellhead.
6. TIH w/ 2 3/8" work string to TD.
7. MIRU Cementing Company.
8. Pump 15 bbls 6% gel.
9. Pick work string up to 3100'.
10. Pump 15 sacks of Class A cement for cement plug 1 from 3100' to 2900'.
11. Displace with 11 bbls of 6% Gel.
12. Pull work string up to 2450' and pump 15 sacks of Class A cement for cement plug 2 from 2450' to 2250'.
13. Displace with 8 ½ bbls of 6% Gel.
14. POOH with work string and let cement plug set for a minimum of eight hours.
15. Run freepoint and cut 4 ½" casing where free. Estimate ±1650'.
16. Pick up casing 1 jt and pump 40 bbls 6% gel followed by 75 sacks of Class A cement for cement plug 3 from ±1630' to ±1430'.
17. Displace with 22 ½ bbls of 6% Gel.
18. Pull casing up to 600' and pump 40 sacks of Class A cement for cement plug 4 from 600' 500'.
19. Displace with 8 bbls of 6% Gel.
20. Pull casing up to 445' and pump 37 sacks of expanding cement for cement plug 5 from 445' to 350'.
21. Displace with 5 ½ bbls of 6% Gel.
22. Pull casing up to 200' and pump 77 sacks of expanding cement for cement plug 6 from 200' to surface.
23. TOOH with casing and lay down.
24. RDMO cement company.
25. Place monument as required by law on top of well bore.
26. Reclaim well site.

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OCT 30 2015

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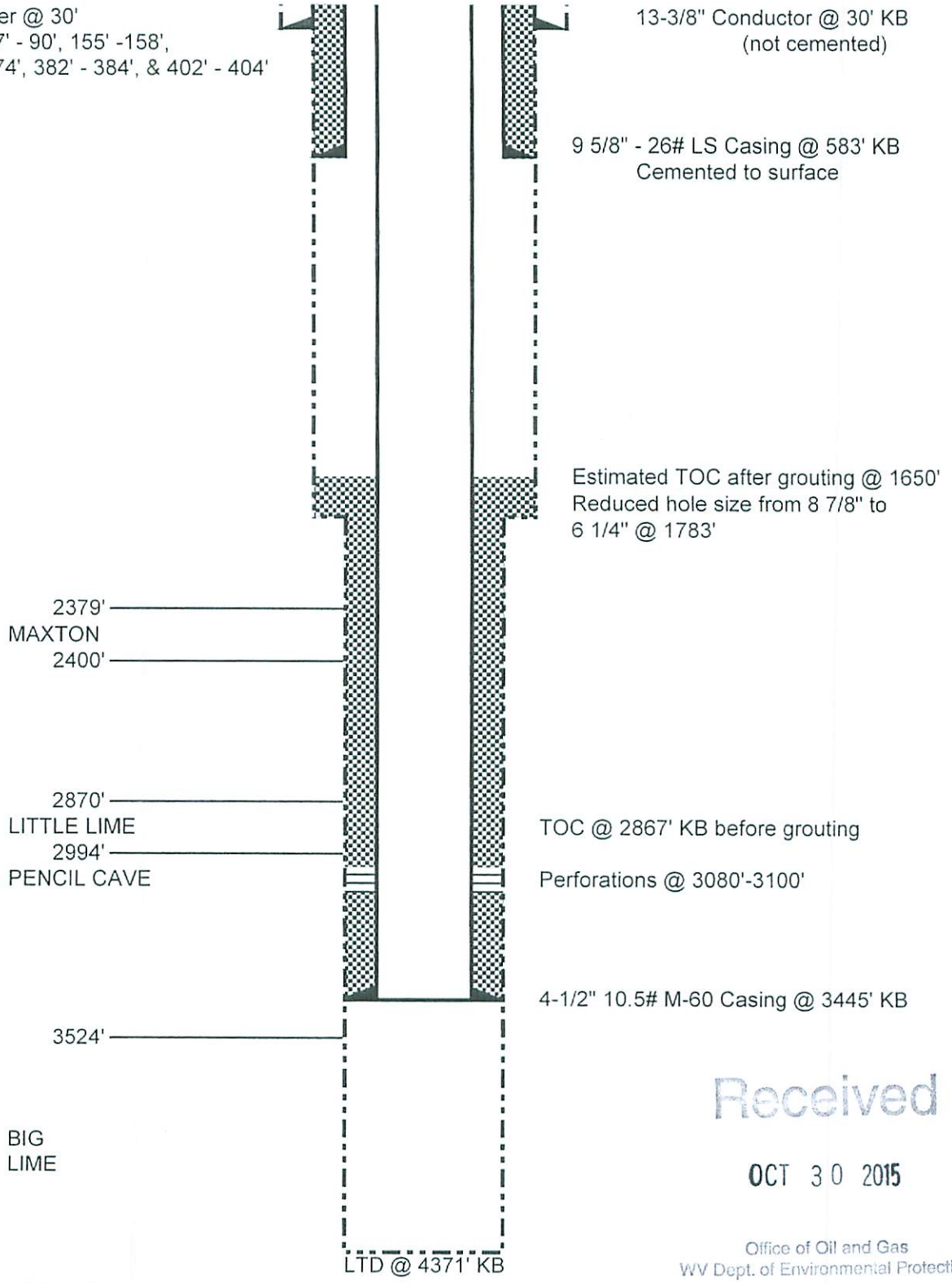
WV Dept. of Environmental Protection

5500275P

Blue Jay #3

API 47-055-00275

CURRENT CONFIGURATION



Schematic is not to scale

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OCT 30 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

T. Ott 12/1/14

5500275P

WR-35

Date July 14, 2005
API # 47- 055 - 00275

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Michael L. Lynch, et al Operator Well No.: Blue Jay #3

LOCATION: Elevation: 3247' Quadrangle: Flat Top
District: Jumping Branch County: Mercer
Latitude: 1130' feet South of 37° DEG. 35' MIN. 00" SEC.
Longitude: 10840' feet West of 81° DEG. 05' MIN. 00" SEC.

Company: Cabot Oil & Gas Corporation
900 Lee Street East, Suite 500
Charleston, WV 25301

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
13 3/8"	30'	30'	N/A
9 5/8"	583'	583'	249
4 1/2"		3445'	131
Dump Squeeze 4 1/2" Casing			197

Agent: Thomas S. Liberatore
Inspector: Barry Stollings
Permit Issued: 2/18/2005
Well Work Commenced: March 19, 2005
Well Work Completed: April 16, 2005
Verbal Plugging:
Permission granted on:
Rotary X Cable
Total Depth (feet) 4371'
Fresh Water Depths (ft) 30', 162'
Salt Water Depths (ft) None reported
Is coal being mined in area (Y / N) ? N
Coal Depths (ft) 87'-90', 155'-158', 370'-374', 382'-384', 402'-404'

OPEN FLOW DATA

Producing Formation ~~Big Lime?~~ Little Lime Pay Zone Depth (ft) 3080'-3100'

Gas: Initial Open Flow 11 MCF/d Oil: Initial Open Flow 0 Bbl/d
Final Open Flow 353 MCF/d Final Open Flow 0 Bbl/d
Time of open flow between initial and final tests 216 Hours
Static rock pressure N/A psig surface pressure after N/A Hours

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 SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: CABOT OIL & GAS CORPORATION
By: [signature] Drilling Superintendent
Date: 7/18/05

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Office of Oil and Gas
OCT 28 2005
WV Department of
Environmental Protection

Flat Top 4

5602275P

MER-275

STAGE	PERFS	ACID 15% HCl	FOAM	SAND (lbs)	NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Little Lime	3080-3100 (40)	250 gal	75Q	83,932	787,400	1982	1626	1675	1639

FORMATION	TOP	BOTTOM	REMARKS
Sand & Shale	0	87	
Coal	87	90	
Sand & Shale	90	155	
Coal	155	158	
Sand & Shale	158	370	
Coal	370	374	
Sand & Shale	374	382	
Coal	382	384	
Sand & Shale	384	402	
Coal	402	404	
Sand & Shale	404	988	
Pride	988	1193	
Silty/Sandy Shale	1193	2379	
Maxon	2379	2400	
Silty/Sandy Shale	2400	2795	
Shale	2795	2870	
Little Lime	2870	2994	
Pencil Cave	2994	3524	
Big Lime	3524	4371	TD

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Office of Oil and Gas

OCT 26 2015

WV Department of
Environmental Protection

5500275P

WW-4A
Revised 6-07

1) Date: October 19, 2015
2) Operator's Well Number
Blue Jay #3

3) API Well No.: 47 - 055 - 00275

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: Michael J. Lynch
Address: 294 Blue Jay Drive
Blue Jay, WV 25816
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name: Pocahontas Coal Co., LLC / Caldwell Trailblazer, LLC
Address: 109 Appalachian Dr. / 818 N. Eisenhower Dr.
Beckley, WV 25801 / Beckley, WV 25801
(b) Coal Owner(s) with Declaration
Name: Michael J. Lynch
Address: 249 Blue Jay Drive
Blue Jay, WV 25816
Name
Address

6) Inspector: Gary Kennedy
Address: P.O. Box 268
Nimitz, WV 25978
Telephone: (304) 382-8402

(c) Coal Lessee with Declaration
Name: None of Record
Address

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

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Office of Oil and Gas
OCT 26 2015
WV Department of
Environmental Protection

Subscribed and sworn before me this 19th day of October, 2015
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 depprivacyoffier@wv.gov.

5500275P

WW-9
(2/15)

API Number 47 - _____ - _____
Operator's Well No. Blue Jay 33

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) Cub Branch of Camp Creek Quadrangle Flat Top

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 ☑ Tank

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 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.

Received
OCT 30 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

Company Official Signature Kenneth L. Marcum

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 19th day of October, 20 15

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

5500275P

Form WW-9

Operator's Well No. Blue Jay 33

Cabot Oil & Gas Corporation

Proposed Revegetation Treatment: Acres Disturbed 1.0 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:

Comments:

Received

OCT 30 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Inspector Date: 10/22/15

Field Reviewed? (_____) Yes (_____) No

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.

APPLY CULVERTS AS NEEDED

WV TURNPIKE

1/2

1

CUT

15" C.P.P.

BLUE JAY 3
API 055-00275

EXISTING ROAD
-1% TO -3%
170'±

FILL

3 LANE

TM 7, TP 29

TM 6, TP 22
Michael J. Lynch, et al
871.55 Acres

TM 7, TP 28

DRAWING LEGEND

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

0 100' 200' 400'
GRAPHIC SCALE

Cabot Oil & Gas Corporation

BLUE JAY 3

CONSTRUCTION & RECLAMATION SITE PLAN

SITUATED ON THE WATERS OF CUB BRANCH OF CAMP CREEK
JUMPING BRANCH DISTRICT, MERCER COUNTY, WV
FLAT TOP 7.5' QUADRANGLE

SHEET NUMBER	SCALE:	DRAWN BY:	DATE:	CHK'D. BY:
1 OF 1	1"=200'	J.M. JONES	04-29-14	DKC

5500875P

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

DIG WITH C.A.R.E. CALL MISS UTILITY KEEP WEST VIRGINIA SAFE

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

DRIVING DIRECTIONS FOR BLUE JAY 3

1.) FROM BECKLEY, WV DRIVE SOUTH ON INTERSTATE 77 FOR 18.3 MILES± TO EXIT 28 (RT. 48/GHENT/FLAT TOP EXIT).
2.) TURN LEFT ONTO ROUTE 48 TO GHENT AND CONTINUE FOR 0.1 MILE± TO THE INTERSECTION OF SECONDARY ROUTE 48 AND U.S. ROUTE 19.
3.) TURN RIGHT ONTO U.S. ROUTE 19 AND GO SOUTH FOR 3.4 MILES± TO THE INTERSECTION OF SECONDARY ROUTE 1.
4.) TURN RIGHT ONTO SECONDARY ROUTE 1 AND GO APPROXIMATELY 0.1 MILE± TO THE INTERSECTION OF SECONDARY ROUTE 1/2.
5.) TURN LEFT ONTO SECONDARY ROUTE 1/2 AND GO APPROXIMATELY 200 FEET± TO THE BEGINNING OF THE ACCESS ROAD LOCATED ON THE LEFT HAND SIDE OF THE ROAD.
6.) FROM THE AFOREMENTIONED SITE, FOLLOW THE EXISTING ROAD FOR APPROXIMATELY 200 FEET± TO THE EXISTING WELL SITE IN THE FIELD AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".

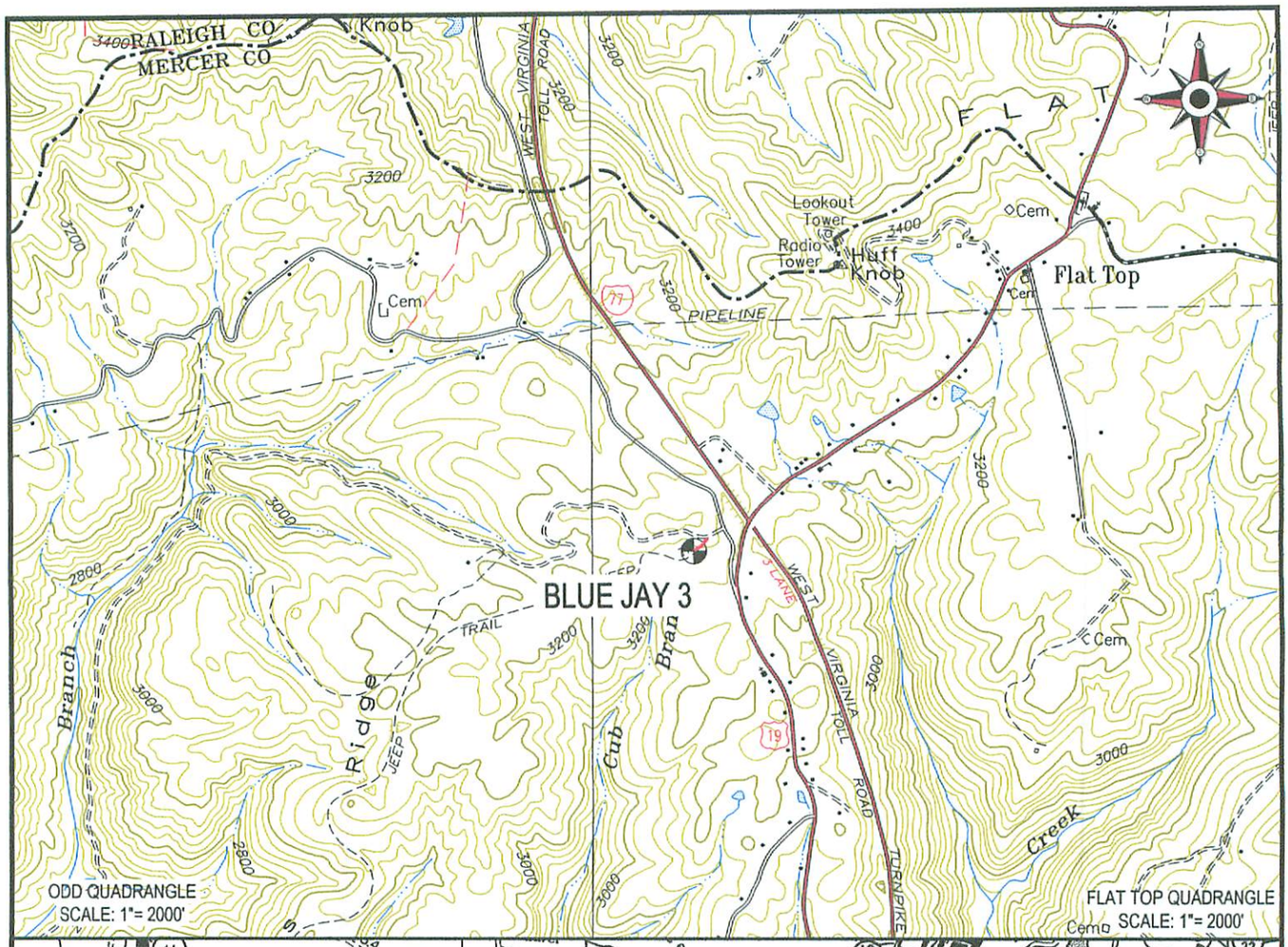
RECEIVED
Office of Oil and Gas
OCT 26 2015
WV Department of
Environmental Protection

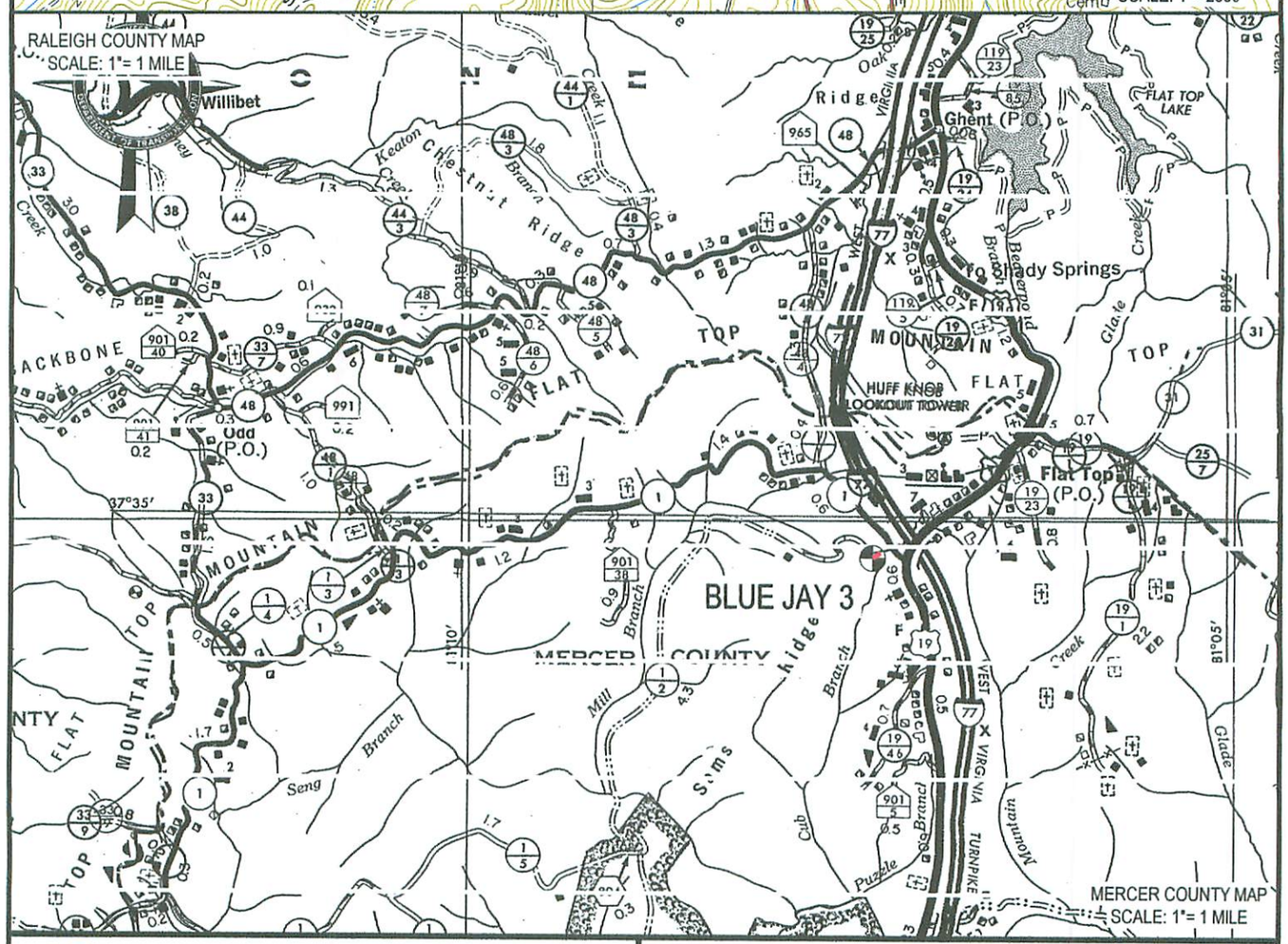
Cabot Oil & Gas Corporation

BLUE JAY 3

JUMPING BRANCH DISTRICT, MERCER COUNTY, WV
FLAT TOP 7.5' QUADRANGLE

5500275P





Cabot Oil & Gas Corporation

BLUE JAY 3

LOCATION MAP

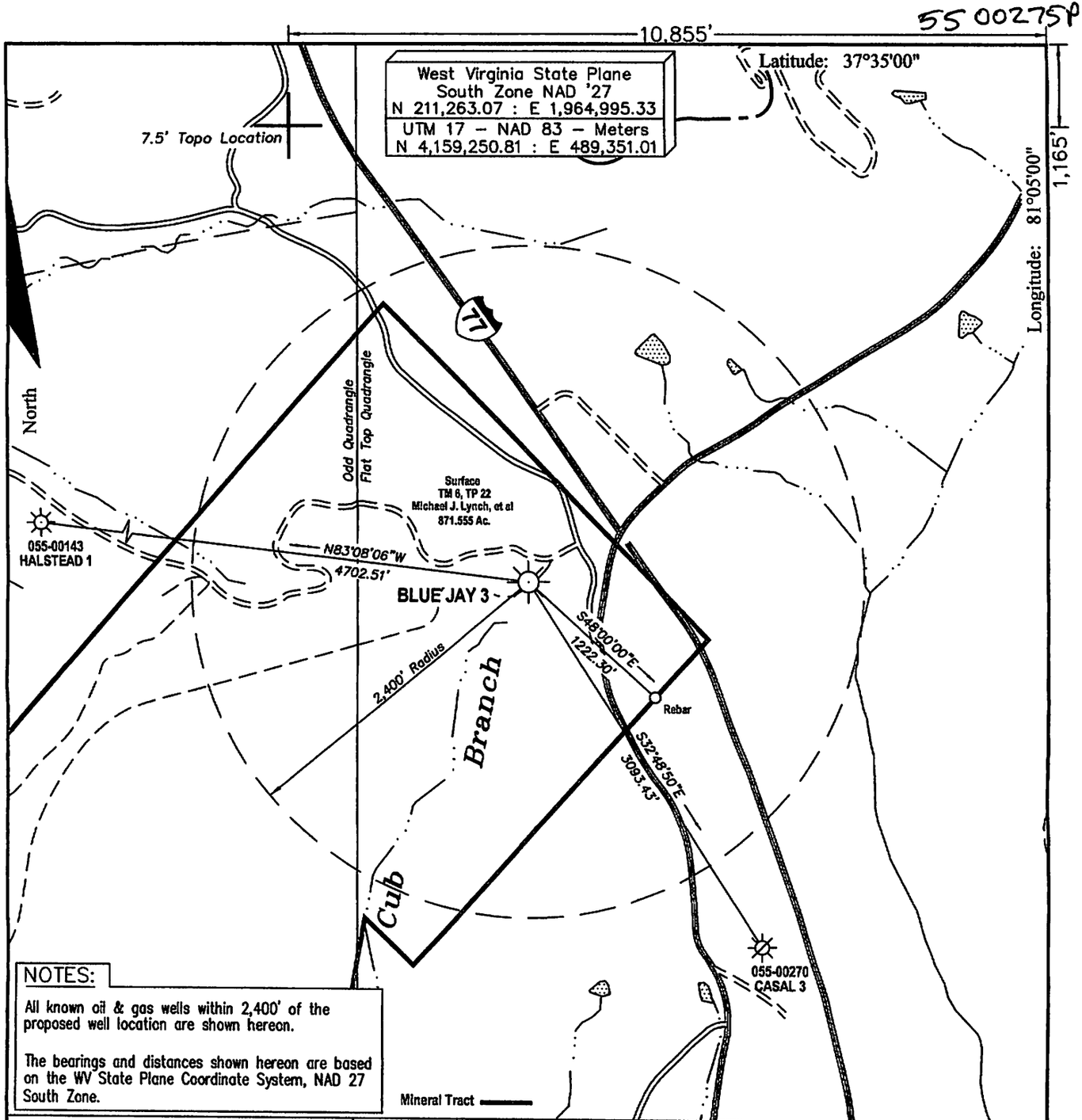
LOCATED ON THE WATERS OF CUB BRANCH
OF CAMP CREEK
JUMOING BRANCH DISTRICT, MERCER COUNTY, WV
LESTER 7.5' QUADRANGLE

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. BLUE JAY 3 LOC
DATE: 04/29/14	SCALE: AS NOTED / CHK'D BY: D.K.C.
DRAWN BY: J. JONES	FILE: C:\PROJECT FOLDER\CABOT

RECEIVED
Office of Oil and Gas
OCT 26 2015
WV Department of
Environmental Protection

5500275P



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.

FILE #:

DRAWING #: Blue Jay 3 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: Don K. Cunningham

R.P.E.: L.L.S.: 701

DON K. CUNNINGHAM LICENSED No. 701 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: April 29, 2014

OPERATOR'S WELL #: Blue Jay 3

API WELL #: 47 (STATE) 055 (COUNTY) 00275P (PERMIT)

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

WATERSHED: Cub Branch of Camp Creek ELEVATION: 3,235.93'

COUNTY/DISTRICT: Mercer / Jumping Branch QUADRANGLE: Flat Top

SURFACE OWNER: Michael J. Lynch, et al ACREAGE: 871.555

OIL & GAS ROYALTY OWNER: Michael J. Lynch, et al, Trustee ACREAGE: 5,242.23

LEASE #: 47-11876 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. 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

RECEIVED
Office of Oil and Gas
OCT 26 2015
WV Department of
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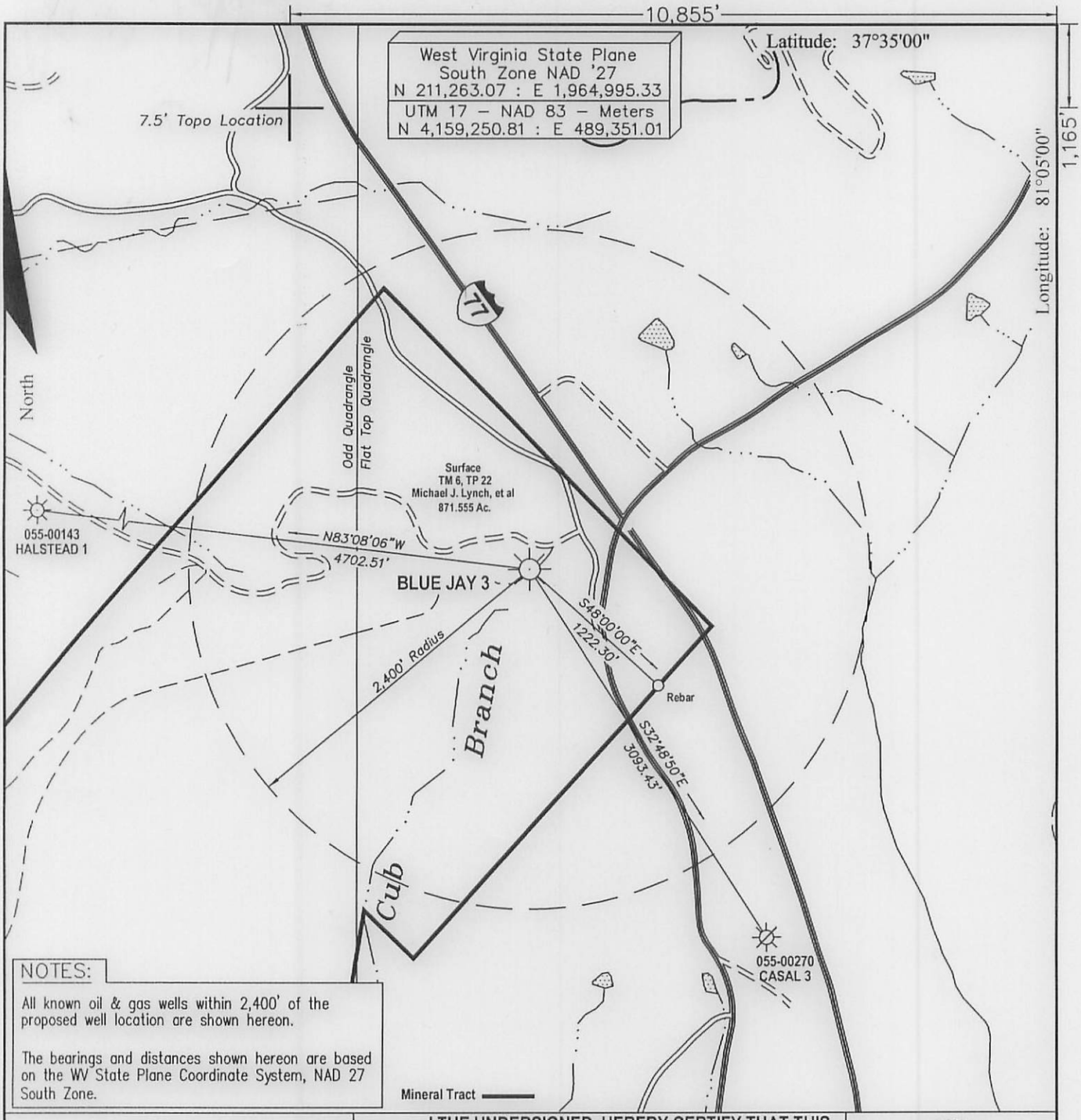

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