



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

June 12, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1502684, issued to ENERGY CORPORATION OF AMERICA, 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: BUTLER 1
Farm Name: BUTLER, JOHN & RALPH
API Well Number: 47-1502684
Permit Type: Plugging
Date Issued: 06/12/2013

1) Date _____, 20____
2) Operator's
Well No. _____
3) API Well No. 47-____-____

1502684P

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

5) Location: Elevation 914 Watershed Deerlick Run of Moore Fork
District Otter County Clay Quadrangle Ivydale

6) Well Operator Energy Corporation of America 7) Designated Agent Rodney A Winters
Address 501 56th Street SE Address Same
Charleston WV 25304

8) Oil and Gas Inspector to be notified Name Ed Gainer 304-389-7582
Address PO Box 821
Spencer WV 25276
9) Plugging Contractor Name R & R Well Service
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:
Revised plugging schedule: MOVE in rig up. Install 3000 psi annular BOP on 13 5/8" casing flange. Drill out surface plug (surface to approximately 215'). Trip in hole and tag existing cement plug at approximately 2415'). Drill out cement plug (approximately 2415' to 2515'). Clean out well bore to 2650' (approximately 208' below 9 5/8" casing shoe). Spot a 250 foot cement plug (95 sacks) from 2650' to 2400' (approximately 208' bellow 9 5/8" casing and 42' inside 9 5/8" casing). Pull out of hole to 275' and spot cement plug from 275' to surface (145 sacks). All plugs will be set using a gas block cement blend!!

ED GAINER MUST BE NOTIFIED 24 HOURS BEFORE WELL WORK
@ 304-389-7582 AND IN ADVANCE OF DRILLING OUT THE
PLUG AT ~ 2415'. BOP REQUIRED FOR DRILL OUT.

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

Office of Oil & Gas

Work order approved by inspector ED GAINER Date JUN 11 2013

gmm

06/14/2013

PREVIOUS PLAN

1502684A

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 X / Shallow ___
- 5) Location: Elevation 929' Watershed Deerlick Run of Moore Fork
District Otter County Clay Quadrangle Ivydale
- 6) Well Operator Eastern American Energy Corp. 7) Designated Agent K. Ralph Ranson II
Address 501 56th St. Address 501 56th St.
Charleston, WV 25304 Charleston, WV 25304
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Rick Campbell Name EAEC
Address P.O. Box 22 Address _____
Duck, WV 25063

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

BUTLER #1
47-015-02684

Top of tools @ 6313'

- DAY 1 Move in and rig up. Blow well down. Service company load hole
With ~~water~~ ^{gel} and spot 300' H2s resistant cement plug inside 4-1/2" casing from ~~6400~~ to 6300'. - 6000'
Pull 2-3/8" tubing. Shut down for the night.
- DAY 2 Fisher Well Servey cut 4-1/2" casing at 5950'. Pull 4-1/2" casing. Shut down for the night.
- DAY 3 Fisher run free point & cut 7" casing at 5800'. Pull 7" casing. Shut down for the night.
- DAY 4 Run 2-3/8" tubing to 5950'. Service company load hole with 6% gelled water & spot 150' H2s
Resistant cement plug from 5950' to 5850'. Spot pug #2 from 2492' to 2392'. Pull tubing to
Within 100' of surface and pump 100' cement plug in 13-3/8" casing. Shut down for the night.
- DAY 5 Rig down and move off. Cut all casing minimum 3' below grade and back fill.



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

Work order approved by inspector x Richard Campbell Date 3/09/04 06/14/2013

- rental, \$1900 Rig cost, and \$770 Dozer. DAILY COST: \$6,520 *Bruce Garrett*
- 04/13/04 Key Energy POOH with 205 jts of tubing. Fisher Well Survey tagged cement plug at 6012'. Shot off 4-1/2" casing at 5903'. Bales and elevators releasing pipe. Sent for correct bales for elevators. Runner unable to get back to rig due to high water. SDFN. DAILY COST: \$2,700 *Bruce Garrett*
- 04/12/04 Key Energy service rig MIRU. Flare well and blow down. MIRU Universal. Pump and circulate gel to kill well. Universal pumped bottom plug from 6300' to 6100'. Stand back tubing. DAILY COST: \$7,184 *Bruce Garrett*
- 04/07/04 Prepare for Plugging – Digging Pit, Move in Tanks, Plumb Wellhead. . DAILY COST: \$1670 *Bruce Garrett*
- 06/27/03 740# SICP 660# SITP Opened well to pit and blew down in 4 minutes. Dropped swab tools without swab cups to 6400'. No obstruction. Shut down, move off location. DAILY COST: rig \$2,000; trucking \$800; H₂S team \$750; supervision \$450 (*Eric Abrecht*)
- 06/26/03 150# SICP 300# SITP Ran in hole to 4205' with swab. Hit tight spot, unable to pass cups through tight spot. Removed cups and attempt to pass jars and stem through. With hard jarring action, made about 5' and stopped. At end of day, 145# CP. Gas volume too small to measure. DAILY COST: rig \$2,100; rental \$850; H₂S \$750; supervision \$450 (*Eric Abrecht*)
- 06/25/03 260# SICP 300# SITP Installed tubing disk on top of jt 178. Ran tubing to 6443' (205 jts). Halliburton circulated with 90-bbl water down backside and up tubing to kill well. Installed tubing tree. SDFN. DAILY COST: \$2,600 rig; rental \$850; pump truck \$2,300; H₂S team \$750; Supervision \$450 (*Eric Abrecht*) 06/24/03 Installed tubing disk 2500' off of bottom of tubing string. Ran tubing to 4200'. Disk broke and well began flowing uncontrollably through tubing. When well settled, shut in. Halliburton pumped 83-bbl fresh water down the annulus. Reduced tubing pressure to 100# and maintained. Shut well in overnight. DAILY COST: rig \$2,500; rental \$950; H₂S crew \$750; Trucking \$150; Supervision \$450; pump truck \$2300(*Eric Abrecht*)
- 06/23/03 Tubing delivered to location at 1:00 PM. Ran in hole with 2-3/8" tubing to ~1300'. Acid gas causing well control problems. Able to run tubing to 2200'. SDFN. Left well open to the pit. Ordered tubing disk to control well. DAILY COST: rig \$2,100; rental \$4,350 (includes tubing), H₂S crew \$750; Trucking \$450; Dozer \$400; Supervision \$450 (*Eric Abrecht*)
- 06/20/03 Pumped 2000 gal 15% OSA (Citric acid & Zylene). Load hole with 30-bbl 2% KCl water. Pumped 22-bbl at 5 bpm. Pressured out at 6000 psi. Acid 4-bbl short of perfs at this point. Try to squeeze fluid into perfs, no go. Make 4 attempts to release pressure and pump back into perfs. No go. Surged well to pit, dropping wellhead pressure to 2000 psi and attempted to pumpe at 5 bpm with pressure up to 6000 psi. repeated 3 times, no go. Released Halliburton and prepare to run tubing and circulate out acid. Shut down for the weekend. DAILY COST: acid \$17,295; rig \$4500 (3 days standby); Supervision \$450; H₂S team \$750; rental equipment \$850
- 06/16/03 430# SICP MI tubing and fishing tools and prepare to fish (swab mandrel, jars, 2 stems and ~500' of line). Well producing 36% H₂S (>2000 ppm). Call out Halliburton to kill well. Management cancelled operations. WOO. Shut well in. DAILY COST: Rig \$2,000; H₂S crew \$750; Rental equipment \$650; Trucking \$980; Halliburton \$2,500; Supervision \$450 (*Eric Abrecht*)
- 06/16/03 430# SICP 36% H₂S (>2000 ppm), to kill well. (*Eric Abrecht*)
- 06/13/03 Key Energy pulled 430' of line out of well. (Left ~500' of line and 40' of tools (swab mandrel, jars and 2 stems) in well). Prepared and inspected wireline for fishing operations scheduled to begin Monday, 06/16. DAILY COST: \$1,500 rig; \$450 supervision. (*Eric Abrecht*)
- 06/13/03 400 ppm H₂S. This morning, wireline on rig is without tension. Tools at unknown depth. (*Eric Abrecht*)
- 06/12/03 MIRU Fisher Well Survey and Halliburton. Key Energy ran in hole with swab tools. Unable to get past 1300'. Pull out, cups covered with casing gunk. Dumped ~2-bbl water, and was able to run swab to 1500'. Still pulling gunk. Dumped ~2-bbl water, ran

1502684P

ENERGY CORPORATION OF AMERICA

WELL NAME: BUTLER #1
API 47-015-02684

20030011

COUNTY/STATE: Clay County, WV

DATE: 03/01/04

WELL DATA:

DEPTH: 7415' DTD

CASING: 1 jt (34') 20", 52#/ft
11 jts (460.39') 13-3/8", 37#/ft
53 jts (2406') 9-5/8", 36#/ft
166 jts (6541.28') 7", 23#/ft
174 jts (7399') of 4-1/2", 13.5#/ft

T.O.C. at 5990'

06/27/03 740 psi SICP 660 SITP

06/20/03 Pumped 2000 gal 15% OSA (Citric acid & Zylene). Load hole with 30-bbl 2% KCl water. Pumped 22-bbl at 5 bpm. Pressured out at 6000 psi. Acid 4-bbl short of perfs at this point. Try to squeeze fluid into perfs, no go. Make 4 attempts to release pressure and pump back into perfs. No go. Surged well to pit, dropping wellhead pressure to 2000 psi and attempted to pump at 5 bpm with pressure up to 6000 psi. repeated 3 times, no go. Released Halliburton and prepare to run tubing and circulate out acid. Shut down for the weekend.

06/12/03 MIRU Fisher Well Survey and Halliburton. Key Energy ran in hole with swab tools. Unable to get past 1300'. Pull out, cups covered with casing gunk. Dumped ~2-bbl water, and was able to run swab to 1500'. Still pulling gunk. Dumped ~2-bbl water, ran to 2200', recovering casing gunk. Dumped another ~2-bbl water and swabbed down to 4000', again pulling casing gunk. Dumped ~2-bbl water and swabbed to 5200', again pulling casing gunk. Able to swab to bottom. Halliburton dumped 250-gal 28% HCl. Swabbed out of well. Tools and cups coming out clean. Dumped additional 250-gal 28% HCl and 20-bbl freshwater. Ran gauge ring to bottom. Fisher Well Survey perforated with 5 shots, one each at 6987', 6989', 6995', 6999', and 7002'. Set CIBP at 7156'.

06/11/03 189# SICP

05/27/03 MIRU Halliburton. Spot 2000 gal OSA acid and displaced with 62-bbl 2% KCl water. Break formation at 4514 psi. ISIP = 3453 psi; 5 minutes = 2788 psi; 10 minutes = 2647 psi. ATP = 5500 psi; ATR = 5 bpm. Flowed well to pit, recovering ~30-bbl in 3 hours. Swabbed to 3600'. Total fluid recover of ~85-bbl. Little gas to surface, too small to measure.

05/14/03 Move in Fisher Well Survey wireline unit. Perforate with 2 spf from 7216' to 7220 and from 7184' to 7188'.

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

RECEIVED
Office of Oil & Gas

AUG 17 2004

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: John & Ralph Butler Operator Well No.: #1

LOCATION: Elevation: 929 Quadrangle: Ivydale 7.5'
District: Otter County: Clay
Latitude: _____ Feet South of _____ Deg. 38 Min. 37 Sec. 30
Longitude: _____ Feet West of _____ Deg. 81 Min. 00 Sec. 32.6

Well Type: OIL _____ GAS X

Company: Eastern American Energy Coal Operator John Butler
502 56th Street or Owner _____
Charleston, WV 25304

Agent: K. Ralph Ranson Coal Operator Ralph Butler
or Owner _____

Permit Issued Date: _____

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ ss:

Bruce Garrett and Mike Marsh being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Richard Campbell Oil and Gas Inspector representing the Secretary, say that said work was commenced on the 12th day of April, 2004, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CIBP	7150	7150	0	460' of 13-3/8"
Gel w/latex	7150	6300	180' of 9-5/8	2262' of 9-5/8"
50/50 POZ	6300	6012	5780' of 7"	752' of 7"
Gel w/latex	6012	5833	5903' of 4-1/2"	1469' of 4-1/2"
50/50 POZ	5833	5683		
Gel	5683	2515		
Class "A"	2515	2415		
Gel	2415	215		

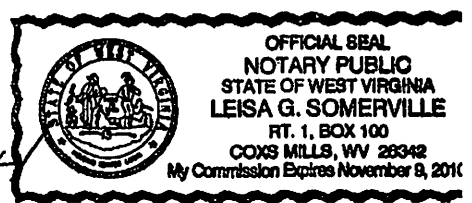
Class "A" 215 Surface
Description of monument: 6" Steel with API. No. and that the work of plugging and filling said well was completed on the 22nd day of April, 2004.

And further deponents saith not. Bruce L. Garrett
Michael Marsh

Sworn and subscribe before me this 29 day of June, 2004
My commission expires: November 9, 2010

Leisa G. Somerville
Notary Public

Oil and Gas Inspector: Richard Campbell



06/14/2013

1) Date June 6, 2013
2) Operator's
Well No. Butler #1
3) API Well No. 47-015 - 2684

JORD

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 ___
- 5) Location: Elevation 914 Watershed Deerlick Run of Moore Fork
District Otter County Clay Quadrangle Ivydale
- 6) Well Operator Energy Corporation of America 7) Designated Agent Rodney A Winters
Address 501 56th St SE Address same
Charleston WV 25304
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Ed Gainer Name R&R Well Service
Address PO Box 821 Address _____
Spencer WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:
Drill out 160' cement in 13 3/8" casing. Drill out remaining cement in 9 5/8" casing to existing plug at approximately 2400'.
Cement Plug #1 will be set on top of existing plug. Plug to be 36 sacks of gas block cement on top of existing. (appx 100')
Cement plug #2 to be from 275' to surface 100' inside 9 5/8' casing (cut at 175") to surface inside 13 3/8". Plug to be 145 sacks gas block cement.

BOP Required for drillout!

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

Work order approved by inspector  Date 6/5/13

NEW
Office of Oil & Gas
JAN 28 2005
WV Department of Environmental Protection

WELL PLUGGING INSPECTION & RELEASE FORM

WORKING COMMENCED 1/12/04
WORKING COMPLETED _____
OBTAINING PERMISSION ON _____

OPERATOR: Eastern America
FARM: _____
WELL NO: Butler #1

IS COAL BEING MINED IN THE AREA? YES NO

WERE CEMENT AND GEL MIXED AND USED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS?

- A. BOTTOM HOLE PLUGGED YES NO
- B. 100' PLUGS YES NO
- C. LATEX PLUGS USED FOR H₂S GAS YES NO
- D. PROPER PLUGS THROUGH COAL SEAMS YES NO
- E. PROPER PLUGS SET TO PROTECT FRESHWATER YES NO
- F. PROPER AMOUNT OF GEL USED TO DISPLACE PLUGS YES NO

CEMP TYPE	7150 FROM	7150 TO	PIPE REMOVED
Well	6400	0	
Latex Cement	6400	6100	5996' of 4 1/2"
Latex Cement	5933	5675'	5750' of 7"
Well Cement	5473	2515'	197' of 9 7/8"
Well Cement	2515	2415'	
Well Cement	2415	215'	
Well Cement	215'	0'	

WERE ALL CHANGES APPROVED BY INSPECTOR? YES NO

WAS THE EQUIPMENT USED FOR PULLING CASING PROPERLY SIZED AND RIGGED TO PULL 150% OF THE HEAVIEST STRING OF PIPE EXPECTED TO BE PULLED? YES NO

DID THE OPERATOR GIVE THE INSPECTOR PROPER NOTICE? YES NO

WERE ACCURATE PLUGGING RECORDS KEPT BY THE OPERATOR? YES NO

WAS A PROPER MONUMENT SET WITH API NUMBER ATTACHED? YES NO

DID WELL SITE AND ACCESS ROAD MEET THE FOLLOWING RECLAMATION REQUIREMENTS?

- A. RECLAIMED YES NO
- B. FENCES REPLACED YES NO
- C. MULCHED YES NO
- D. PROPER DRAINAGE YES NO
- E. SEEDED YES NO
- F. ALL EQUIPMENT REMOVED YES NO

1/13/05
DATE RELEASED

Richard Campbell
INSPECTOR'S SIGNATURE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator Eastern American Energy Corporation 014980 Clay Otter Ivydale 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Butler No. 1 3) Elevation: 929'

4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production X / Underground Storage _____
 Deep X / Shallow _____

5) Proposed Target Formation(s): Knox

6) Proposed Total Depth: 12,000 Feet

7) Approximate fresh water strata depths: 50'

8) Approximate salt water depths: 1050'

9) Approximate coal seam depths: N/A

10) Does land contain coal seams tributary to active mine? No

11) Describe proposed well work Drill and complete new well

RECEIVED
 Office of Oil & Gas
 Permitting
 JAN 05 2003
 WV DEPARTMENT OF
 Environmental Protection

01-07-03 03:00 PM

12) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS	FOOTAGE	INTERVALS	CEMENT
	Size Grade Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	20" LS 52.78#	40'	40'	Sand in
Fresh Water	13 3/8" LS 37#	400'	400'	Cement to Surface 278 F ³
Intermediate #1	9 5/8" D-55 36#	1790	1790 through Berea	Cement to Surface 561 F ³
Intermediate #2	7" P-110 26#	9964	9964	Cement top @ 6000'
Production	4 1/2" L-80 11.6#	12000	12000	To be determined based on logs
Tubing				
Liners				

Packers: Kind
 \$450 Sizes
 2 k.# 200534 Depths Set

LPP
 1-15-03 *1/15/03 1:503*
[Signature]
 1/15/03

REV (2-01)
WR-38
DATE:

API # 47-015-02684

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

PRIOR PLUG PLAN!

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: John & Ralph Butler Operator Well No.: #1

LOCATION: Elevation: 929 Quadrangle: Ivydale 7.5'
District: Otter County: Clay
Latitude: _____ Feet South of _____ Deg. 38 Min. 37 Sec. 30
Longitude: _____ Feet West of _____ Deg. 81 Min. 00 Sec. 32.6

Well Type: OIL _____ GAS X

Company: Eastern American Energy Coal Operator John Butler
502 56th Street or Owner _____
Charleston, WV 25304

Agent: K. Ralph Ranson Coal Operator Ralph Butler
or Owner _____

Permit Issued Date: _____

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____ ss:

Bruce Garrett and Mike Marsh being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Richard Campbell Oil and Gas Inspector representing the Secretary, say that said work was commenced on the 12th day of April, 2004, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
CIBP	7150	7150	0	460' of 13-3/8"
Gel	7150	6300	180' of 9-5/8	2262' of 9-5/8"
50/50 <u>w/water</u> poz	6300	6012	5780' of 7"	752' of 7"
Gel	6012	5833	5903' of 4-1/2"	1469' of 4-1/2"
50/50 <u>w/water</u> poz	5833	5683		
Gel	5683	2515		
Class "A"	2515	2415		
Gel	2415	215		

Class "A" 215 Surface
Description of monument: 6" steel with API, No. and that the work of plugging and filling said well was completed on the 22nd day of April, 2004.

And further deponents saith not. Bruce L. Garrett
Michael Marsh

Sworn and subscribe before me this 29 day of June, 2004
My commission expires: November 9, 2010
Leisa G. Somerville
Notary Public

Oil and Gas Inspector: Richard Campbell



06/14/2013

WELL
Office of Oil & Gas
JAN 28 2005
WV Department of Environmental Protection

WELL PLUGGING INSPECTION & RELEASE FORM

WORK COMMENCED 1/12/04
WORK COMPLETED _____
OBTAIN PERMISSION ON _____

OPERATOR: Eastern America
FARM: _____
WELL NO: Butler #1

IS COAL BEING MINED IN THE AREA? YES NO

WERE CEMENT AND GEL MIXED AND USED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS?

- A. BOTTOM HOLE PLUGGED YES NO
- B. 100' PLUGS YES NO
- C. LATEX PLUGS USED FOR H₂S GAS YES NO
- D. PROPER PLUGS THROUGH COAL SEAMS YES NO
- E. PROPER PLUGS SET TO PROTECT FRESHWATER YES NO
- F. PROPER AMOUNT OF GEL USED TO DISPLACE PLUGS YES NO

CEIRP TYPE	7150 FROM	7150 TO	PIPE REMOVED
<u>Ordn. Well</u>	<u>6400</u>	<u>0</u>	
<u>Latex Cement</u>	<u>6400</u>	<u>6100</u>	<u>5996' of 4 1/2"</u>
<u>Latex Cement</u>	<u>5933</u>	<u>5675'</u>	<u>5750' of 7"</u>
<u>Ordn. Cement</u>	<u>5473</u>	<u>2515'</u>	<u>197' of 9 3/8"</u>
<u>Ordn. Cement</u>	<u>2515</u>	<u>2415'</u>	
<u>Ordn. Cement</u>	<u>2415</u>	<u>215'</u>	
<u>Ordn. Cement</u>	<u>215'</u>	<u>0'</u>	

WERE ALL CHANGES APPROVED BY INSPECTOR? YES NO

WAS THE EQUIPMENT USED FOR PULLING CASING PROPERLY SIZED AND RIGGED TO PULL 150% OF THE HEAVIEST STRING OF PIPE EXPECTED TO BE PULLED? YES NO

DID THE OPERATOR GIVE THE INSPECTOR PROPER NOTICE? YES NO

WERE ACCURATE PLUGGING RECORDS KEPT BY THE OPERATOR? YES NO

WAS A PROPER MONUMENT SET WITH API NUMBER ATTACHED? YES NO

DID WELL SITE AND ACCESS ROAD MEET THE FOLLOWING RECLAMATION REQUIREMENTS?

- A. RECLAIMED YES NO
- B. FENCES REPLACED YES NO
- C. MULCHED YES NO
- D. PROPER DRAINAGE YES NO
- E. SEEDED YES NO
- F. ALL EQUIPMENT REMOVED YES NO

1/13/05
DATE RELEASED

Richard Campbell
INSPECTOR'S SIGNATURE

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: BUTLER #1 Operator Well No: #1
 LOCATION: Elevation: 929 Quadrangle: IVYDALE
 District: OTTER County: CLAY
 Latitude: Feet South of 38 Deg. 35 Min. 96 Sec.
 Longitude Feet West of 81 Deg. 00 Min. 32 Sec.

Company: ECA

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>501 56th Street</u>				
<u>Charleston, WV 25304</u>	CSG	20"	34'	TO SURF
Agent: <u>K. Ralph Ranson, II</u>				79 F ³
Inspector: <u>Rick Campbell</u>	CSG	13 3/8"	460'	TO SURF
Date Permit Issued: <u>1/22/03</u>				455 F ³
Date Well Work Commenced:	CSG	9 5/8"	2442'	TO SURF
Date Well Work Completed:				902 F ³
Verbal Plugging:	CSG	7"	6512'	ETOC 6032
Date Permission granted on:				83 F ³
Rotary X Cable Rig	CSG	4 1/2"	7372'	5780' TOP
Total Depth (feet): <u>7444 Loggers</u>				141 F ³
Fresh Water Depth (ft.): <u>300</u>				
Salt Water Depth (ft.): <u>1700</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u> </u>				

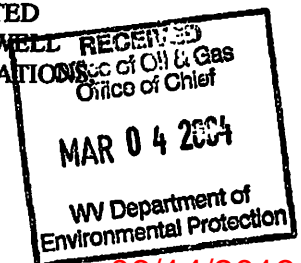
OPEN FLOW DATA

Producing formation NEWBURG Pay zone depth (ft) 7184-7216
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 0 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 0 Hours
 Static rock Pressure 189 psig (surface pressure) after 240 Hours

Second producing formation SALINA Pay zone depth (ft) 6987-7002
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 0 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 0 Hours
 Static rock Pressure 740 psig (surface pressure) after 168 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.

Signed: K.R. Ranson, II V.P.
 By: K.R. RANSON II
 Date: 02-MAR-04



06/14/2013

1502684P

WW-4A
Revised 6-07

1) Date: 6/6/2013
2) Operator's Well Number
Butler #1 _____

3) API Well No.: 47 - 015 - 2684

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>John W Butler</u>	Name _____
Address <u>1863 Gun Barrel Road</u>	Address _____
<u>White Post Va 22663</u>	
(b) Name <u>Ralph C Butler</u>	(b) Coal Owner(s) with Declaration
Address <u>214 Viking Road</u>	Name <u>John W Butler</u>
<u>Charleston WV 25302</u>	Address <u>1863 Gun Barrel Road</u>
	<u>White Post Va 22663</u>
(c) Name _____	Name <u>Ralph C Butler</u>
Address _____	Address <u>214 Viking Road</u>
	<u>Charleston WV 25302</u>
6) Inspector <u>Ed Gainer</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 821</u>	Name _____
<u>Spencer WV 25276</u>	Address _____
Telephone <u>304-389-7582</u>	

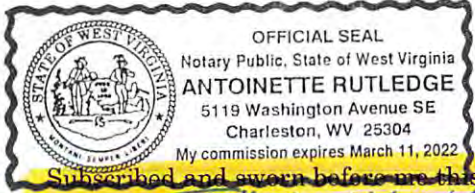
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 Energy Corporation of America
 By: Rodney A Winters *[Signature]*
 Its: VP of Land
 Address 501 56th St SE
Charleston WV 25304
 Telephone 304-925-6100



Subscribed and sworn before me this 6TH day of JUNE, 2013
Antoinette Rutledge Notary Public
 My Commission Expires March 11, 2022

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.

06/14/2013

15026848

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 015 - 2684
Operator's Well No. _____ Butler #1 _____

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Energy Corporation of America OP Code 014980

Watershed Deerlick Run of Moore Fork Quadrangle Ivydale

Elevation 914 County Clay District Otter

Description of anticipated Pit Waste: Fresh Water and Gel

Will a synthetic liner be used in the pit? Yes

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 [Signature]

Company Official (Typed Name) Rodney A Winters

Company Official Title Vice President of Land

Subscribed and sworn before me this 6TH day of JUNE, 2013

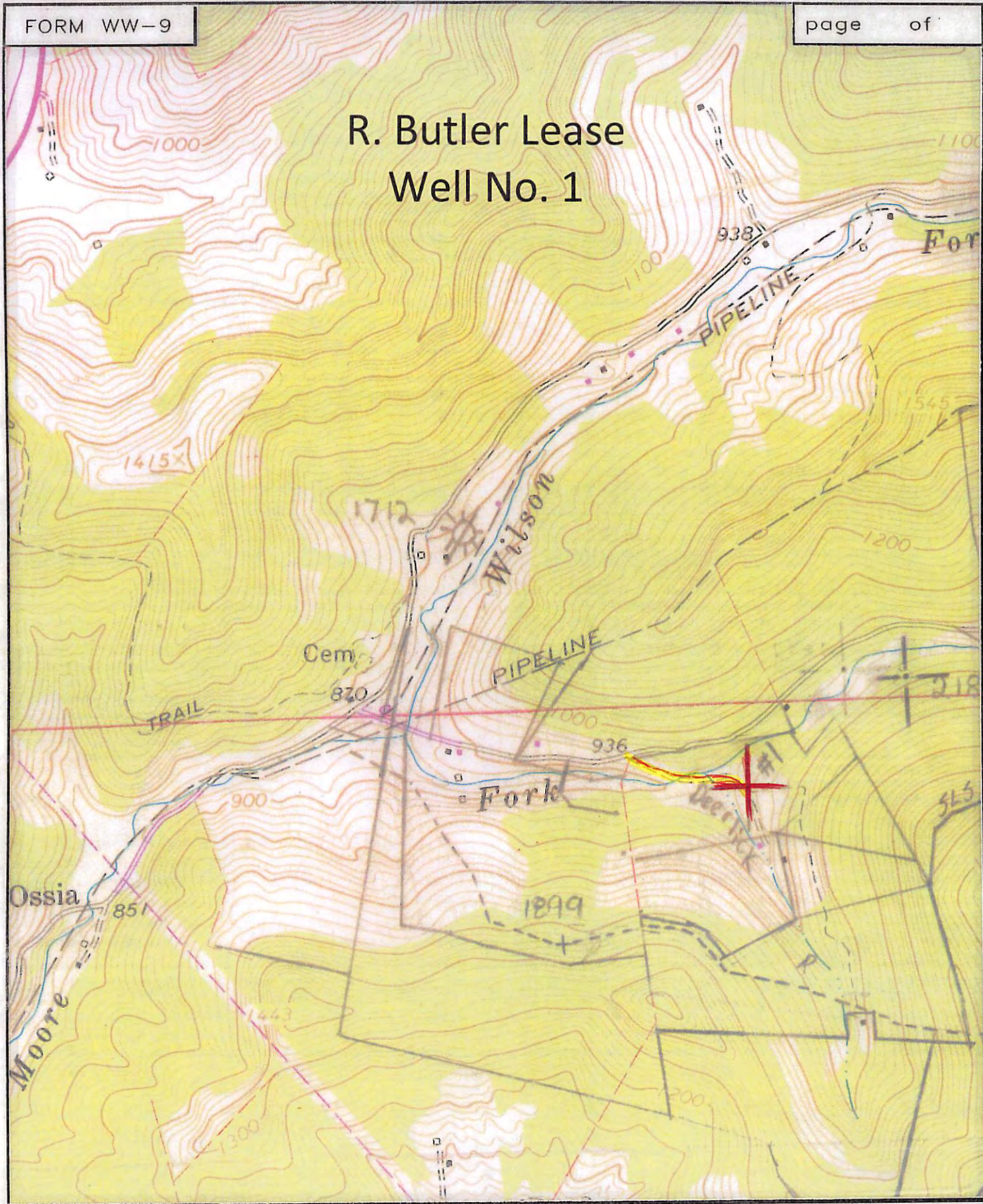
[Signature] Notary Public

My commission expires March 11, 2022



06/14/2013

R. Butler Lease Well No. 1



SMITH LAND SURVEYING
P.O. BOX 150 GLENVILLE, WV. 26351

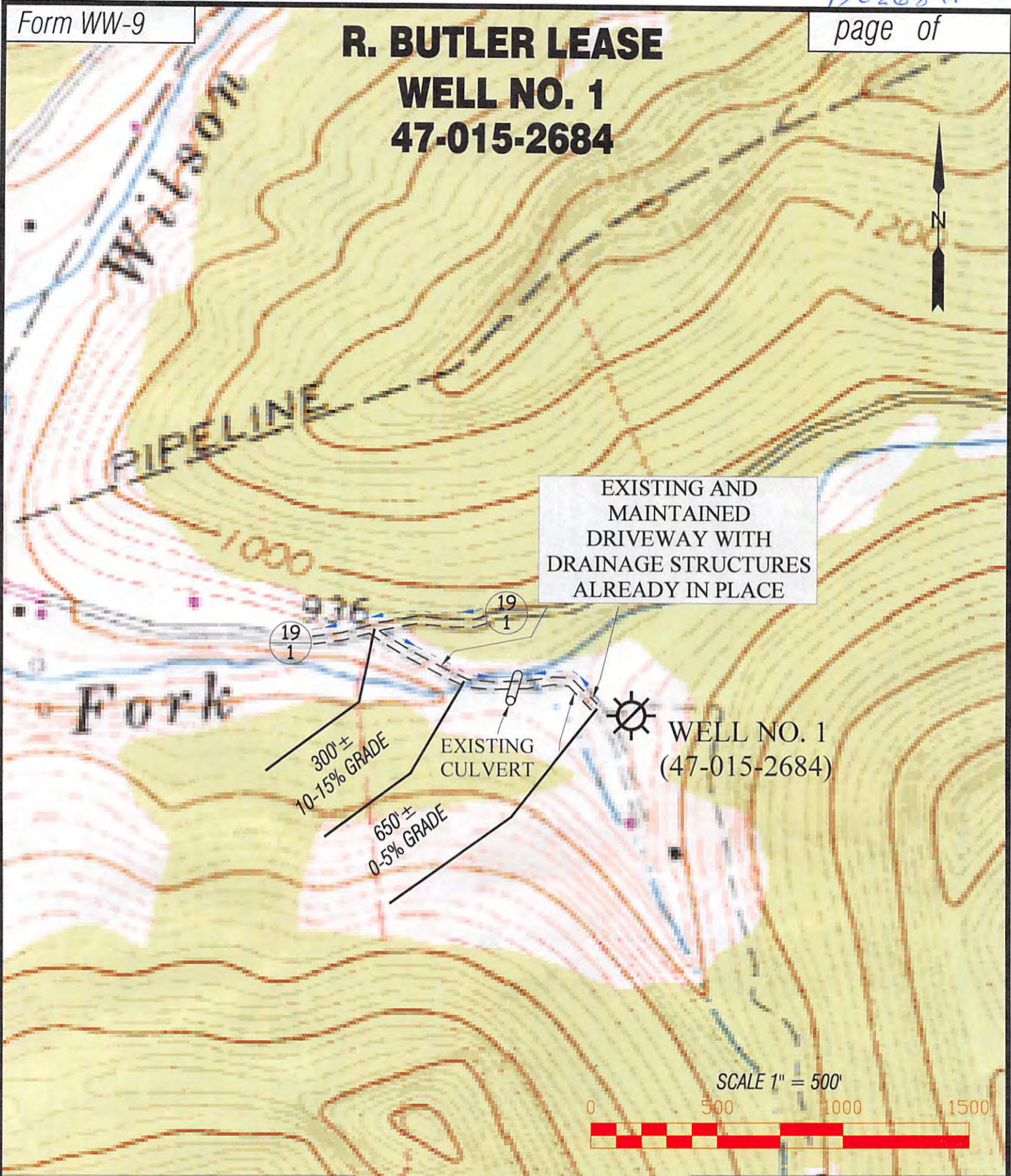
TOPO SECTION OF IVYDALE 7.5'

FILE NO. 8056 DATE 5/29/13 SCALE 1" = 1,000'

06/14/2013

R. BUTLER LEASE

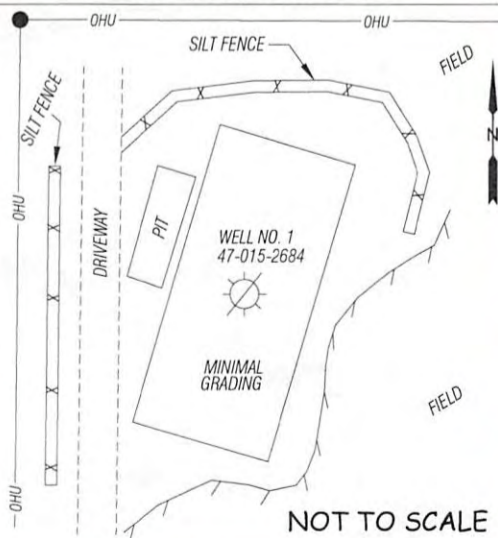
WELL NO. 1 47-015-2684



SCALE 1" = 500'



Detail Sketch for Well No. 1



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (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.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

06/14/2013

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING

SURVYORS PROJECT MGMT. **SLS** ENGINEERS ENVIRONMENTAL

226 West Main St.
P.O. Box 150
Glenville WV 26035
(204) 432-9534

36055 Diem Bottom Road
Shady Side, OH 43147
(740) 671-9911

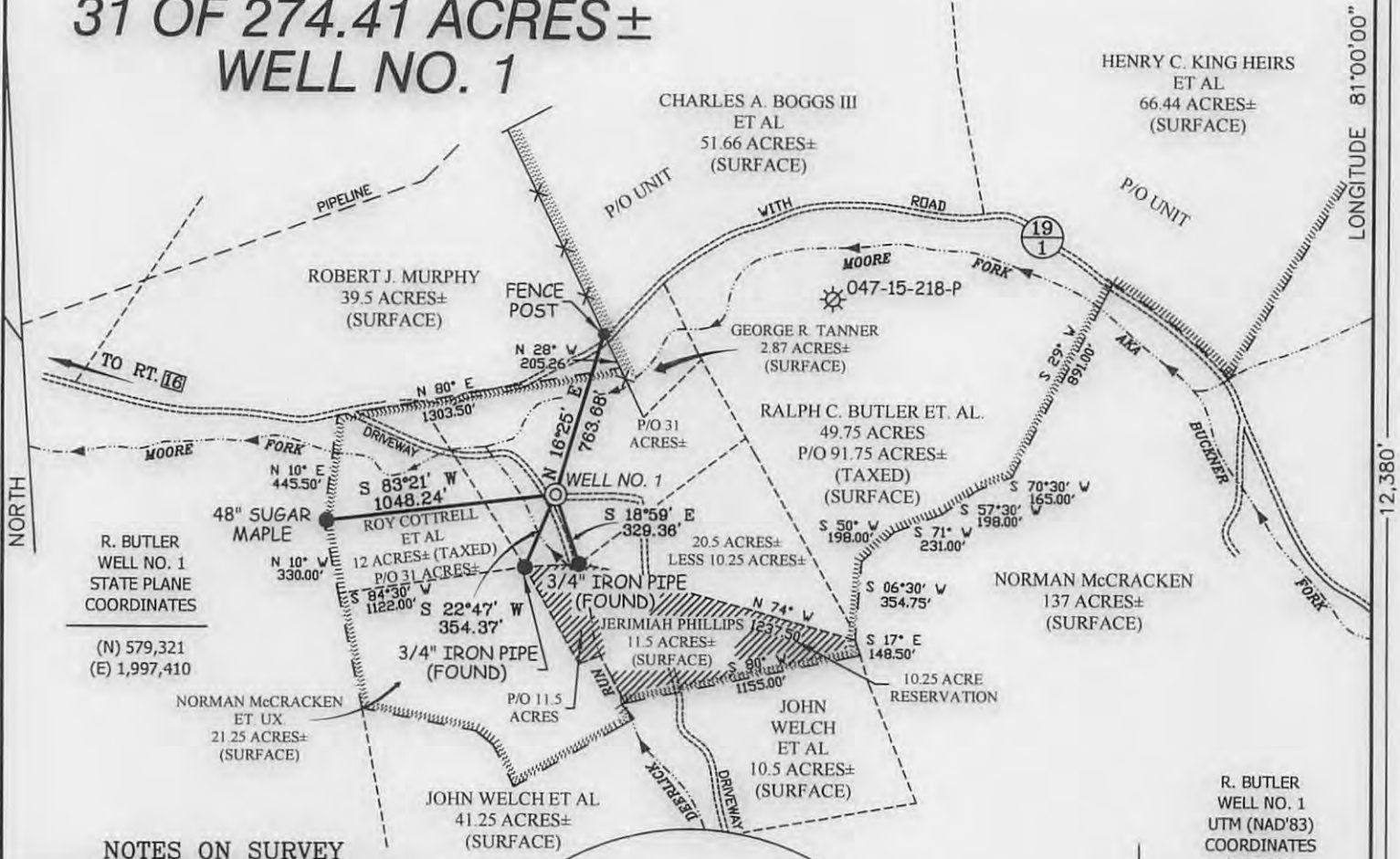
HONESTY. INTEGRITY. QUALITY

TOPO SECTION OF USGS IVYDALE 7.5' QUADRANGLE

- = EXISTING CULVERT
- = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING
- = APPROXIMATE LIMITS OF DISTURBANCE

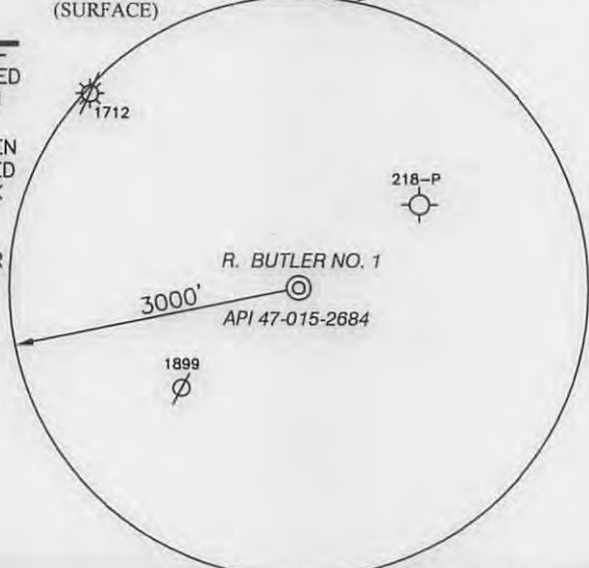
DRAWN BY: K.D.W. FILE NO.: 8056 DATE: 05-23-13 CADD FILE: 8056REC1.DWG

R. BUTLER LEASE 31 OF 274.41 ACRES± WELL NO. 1



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 156 AT PAGE 280, DEED BOOK 42 AT PAGE 248, AND DEED BOOK 173 AT PAGE 336.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF CLAY COUNTY IN JULY, 2012.
4. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



R. BUTLER
WELL NO. 1
UTM (NAD'83)
COORDINATES
(METERS)
(N) 4,271,397
(E) 499,226



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MAY 23, 20 13
 OPERATORS WELL NO. R. BUTLER NO. 1
 API WELL NO. 47-015-02684
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 8056P1M(143-2)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1"=800'

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

WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 914' WATERSHED DEERLICK RUN OF MOORE FORK
 DISTRICT OTTER COUNTY CLAY QUADRANGLE IVYDALE 7.5'

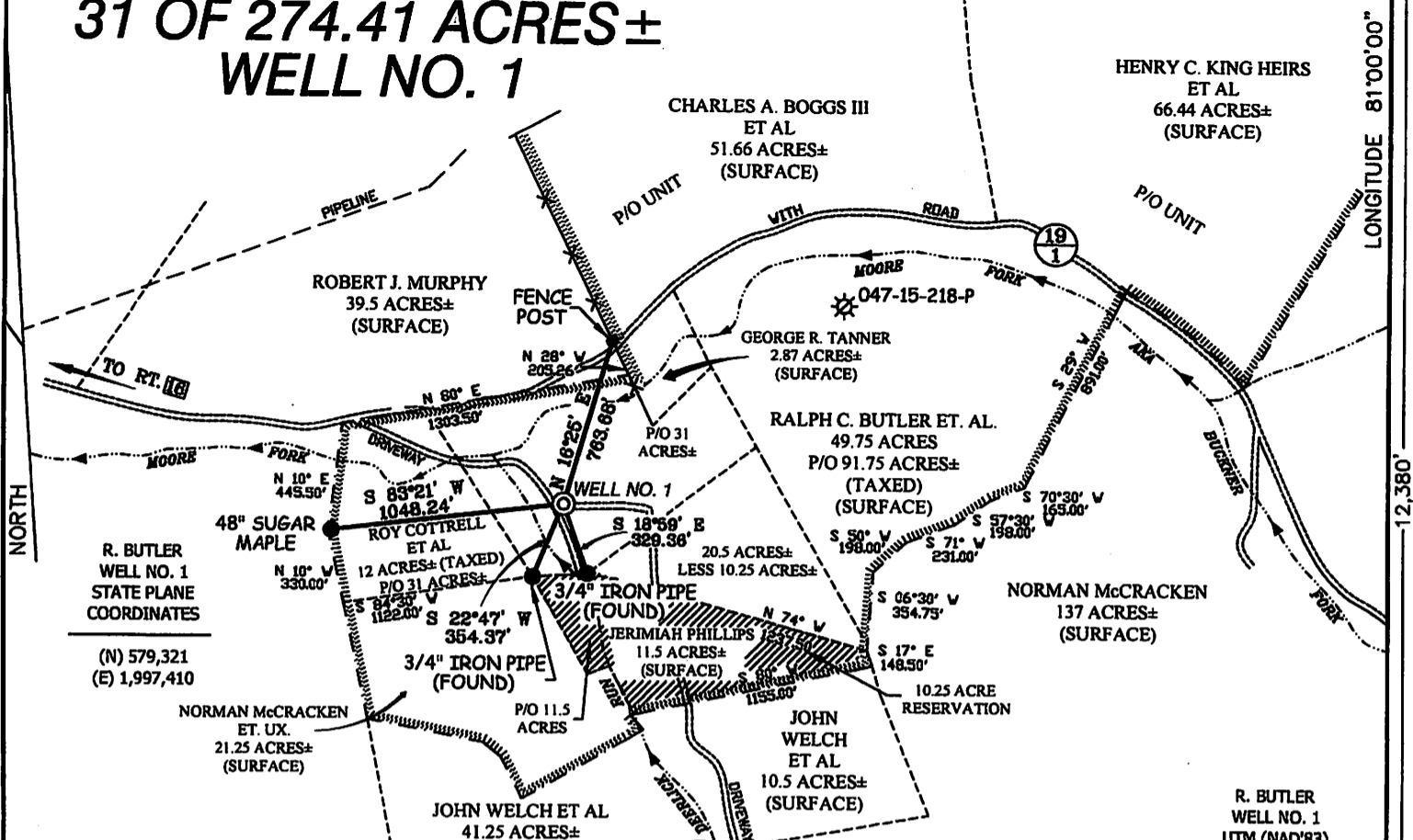
SURFACE OWNER RALPH C. BUTLER ET AL (TAXED P/O 91.75 AC.) ACREAGE RESIDUE OF 31±
 ROYALTY OWNER RALPH C. BUTLER ET AL LEASE ACREAGE 31 OF 274.41

PROPOSED WORK : LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION KNOX
 ESTIMATED DEPTH 12,000

WELL OPERATOR ENERGY CORPORATION OF AMERICA DESIGNATED AGENT RODNEY A. WINTERS
 ADDRESS 501 56TH STREET S.E. CHARLESTON, WV 25304 ADDRESS 501 56th STREET S.E. CHARLESTON, WV 25304

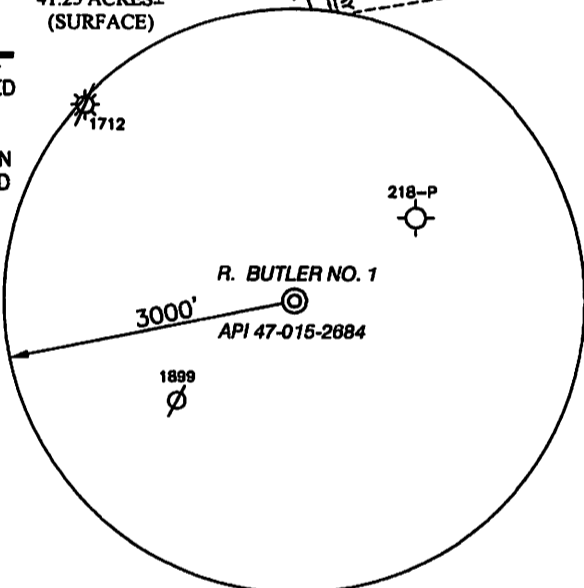
LONGITUDE 81°00'00" LONG. 81°00'32.6" LAT. 38°35'27.5"

R. BUTLER LEASE 31 OF 274.41 ACRES± WELL NO. 1



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 156 AT PAGE 280, DEED BOOK 42 AT PAGE 248, AND DEED BOOK 173 AT PAGE 336.
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R. BUTLER
WELL NO. 1
UTM (NAD'83)
COORDINATES
(METERS)

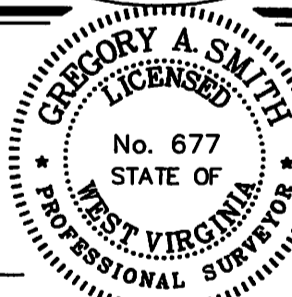
(N) 4,271,397
(E) 499,225



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.
677

Gregory A. Smith



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

DATE MAY 23, 20 13
 OPERATORS WELL NO. R. BUTLER NO. 1
 API WELL NO. 47-015-2684
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 8056P1M(143-2)
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STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



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SURFACE OWNER RALPH C. BUTLER ET AL (TAXED P/O 91.75 AC.) ACREAGE RESIDUE OF 31±

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PROPOSED WORK : LEASE NO. _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION KNOX
 ESTIMATED DEPTH 12,000

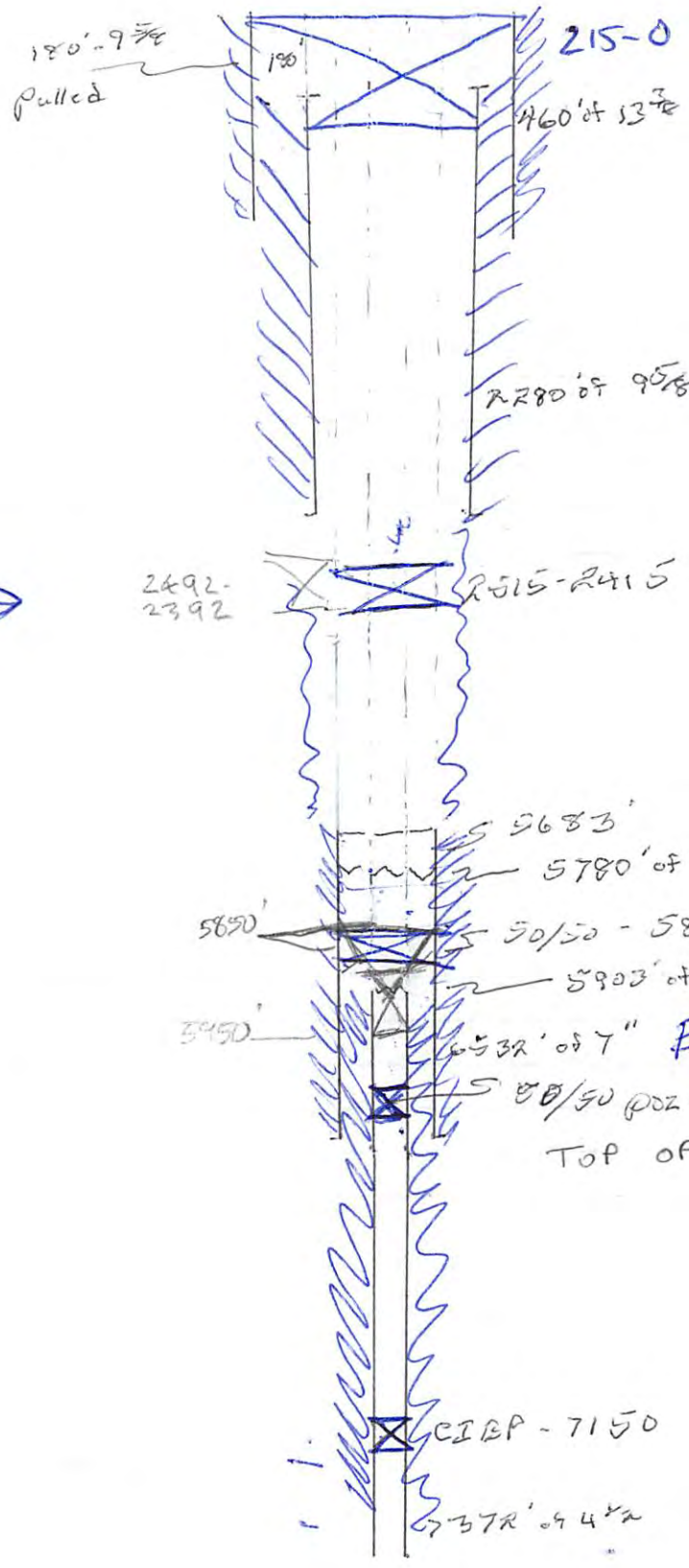
WELL OPERATOR ENERGY CORPORATION OF AMERICA DESIGNATED AGENT RODNEY A. WINTERS
 ADDRESS 501 56TH STREET S.E. ADDRESS 501 56th STREET S.E.
CHARLESTON, WV 25304 CHARLESTON, WV 25304

COUNTY NAME PERMIT

06/14/2013

460' of 1 3/8"
 2280' of 9 5/8"
 6502' of 7"
 7372' of 4 1/2"

1502684P



7" cement top?

6500

2492-2392

2515-2415

5683'

5780' of 7"

5850

50/50 - 5833 - 5833

5903' of 4 1/2"

5950

6532' of 7" ETOC 6032

50/50 (POZ w/ 100 x 6300 - 6012)

TOP OF TOOL 6313

CIBP - 7150

7372' of 4 1/2"

FISH IS 500' OF LINE, 40 FOOT OF TOOLS, (SWAB, MANDREL,

JARS & 06/14/2013