

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

September 18, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9901872, 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: GYPSY/WRIGHT A4 Farm Name: HURLEY, HENRY ,. ET AL API Well Number: 47-9901872 Permit Type: Plugging Date Issued: 09/18/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified</u> 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.

		94018728
WW∸41 Rev.	B 2/01	1) Date August 14 , 20 13 2) Operator's Well No. Gypsy Wright A-4
		3)API Well No. <u>47-099</u> - <u>01872</u>
		RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas _X / Liquid (If "Gas, Production _X or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5)	Location: Elevation_821.10	Watershed Twomile Creek
	District Stonewall	County Wayne Quadrangle Wayne
6)	Well Operator Cabot Oil & Gas Corporation	7)Designated Agent Brian Hall
	Address Five Penn Center West, Ste. 401	Address 6804 Lick Creek Road
	Pittsburgh, PA 15276	Danville, WV 25053
8)	Oil and Gas Inspector to be notified	9)Plugging Contractor
	Name_Jeremy James	Name Viking Well Services
	Address P.O. Box 147	Address 8113 Sissonville Drive
	Ona, WV 25545	Sissonville, WV 25320

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

Received

Notification must be given to the district oil and gas inspector 24 howers Dept. of Environmental Protection Work order and Work order and the district oil and gas inspector 24 howers before permitted

Work order approved by inspector

Date <u>8-21-13</u>

A-4 GYPSY WRIGHT A-API # 47 - 099 - 01872 PLUGGING PROCEDURE

Current Configuration

2.17

DTD @ 4156 16" conductor @ 46' KB, cemented to surface 9 [°]/₈" — 36# LS casing @ 638' KB, cemented to surface 7" - 20# LS casing @ 2230' KB, cemented to surface 4 1/2" - 11.6# - j55 casing @ 4041' KB w/ TOC @ 2250' 2 3/8" - 4.6# tubing @ 3928' KB 2 3/8" x 4 1/2" Arrow-set 1XS packer @ 3676' KB 100 1 Big Six perforations: 3922' - 3938' - CAST 1000 BRIDGE PLUG WILL HAVE Berea formation: 2090 – 2210' (not perforated) Coal @ 525' & 588' TO BE SET HIGHER @ ~ 3870' Salt water @ 919', 1000', & 1750' Fresh water @ 68' & 362'

ELEU 917,15 FT.

CEMENT PLUC ACROSS W/ EXPANDING 13900 - 4000'S CEMENT

PROCEDURE

- 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. MIRU company certified in H2S safety. All personnel on location must be trained in the proper use of respirators and other safety devices. Respiratory equipment is to worn in areas with H2S concentrations that exceed 10 ppm. NOTE: Big Six tested 1,000 ppm H2S after perforating.
- 4. MIRU service rig and blow down well.
- 5. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 4 ½" x 7" annulus.
- 6. Unpack wellhead.
- Unseat packer and POOH with tubing.
- 8. RU Wireline and set cast iron bridge plug at 3900' KB.
- 9. RIH with $2^{3}/_{8}$ " tubing to top of bridge plug.
- 10. MIRU Cementing Company.
- 11. Pump 10 barrels of 6% Gel.
- 12. Pump 22 sacks of latex cement for cement plug 1 from 3900' to 3600'.
- 13. Displace with 14 bbls of 6% Gel. Need 100 ft plug seperating Zanes 3175 3275 ono
- 14. POOH with tubing.
- 15. Run freepoint and cut 4 1/2" casing where free. Estimate ±2250'. Pick up casing 1 jt and pump 40 bbls 6% gel. Fun in w/work string + set plug over Cut, Sci below
- 16. Pump 60 sacks Class A cement for Cement Plug 2 from 2210' to 1900'.
- 17. Displace with 29 bbls of 6% Gel.
- 18. Pull casing up to 200' and pump 40 sacks of Class A cement for Cement Plug 3 from 200' to Received Need saltuster plug a 800-900 surface.
- 19. TOOH with casing and lay down.

Need cool plug & 475-615

- 20. RDMO Cement company
- 21. Erect Monument according to Law.
- 22. RDMO.

09/20/2013

Unice of UII and Uas WV Dept. of Environmental Protection

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d Gas



25-Jun-93 API # 47-099-01872

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

Farm name: MUNCIE, JAMES ET AL

Operator Well No.: GYPSY/WRIGHT A-4

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Location: Elevation: 917.15

Quadrangle: WAYNE

District: STONEWALL County: WAYNE Latitude: 5350 Feet South of 38 Deg. 10 Min. Sec. Longitude: 7600 Feet West of 82 Deg. 25 Min. Sec.

Company: CABOT OIL & GAS CORPORATION 3 Gateway Center, Suite 2000 Pittsburgh, PA 15222

Agent: RUSSELL PERKINS

Inspector: OFIE HELMICK
Permit Issued: 06/30/93
Well Work Commenced: 07/30/93
Well Work Completed: 08/07/93
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 4156'
Fresh water depths (ft) <u>68, 362</u>
Salt water depths (ft) <u>919, 1000, 1750</u>
Is coal being mined in area (Y/N)?
Coal Depths (ft): _525, 588

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	36'	36′	N/A
9-5/8"	628′	628′	200 sks Class A
7"	2220'	2220'	380 sks Class A
4-1/2"	4031′	4031'	100 sks Neat w/ Latex
2-3/8"	n/a	38210	CCn/a
			LUG 28 2013

OPEN FLOW DATA

Producing form	ation <u>BIG</u> open flow <u>537</u> open flow <u>603</u> open flow betwe	SIX	Pay zone dep	oth (ft) <u>3922-3</u>	3938 of Oil amente
Gas: Initial	open flow _ 537	MCF/d	Oil: Initi	al open flow <u>n</u>	<u>/a@fff_Bb7}/d</u>
Final c	pen flow <u>603</u>	MCF/d	Final	open flow	<u>⊿@`</u> `Bb1/d
Time of	open flow betwe	en initial and	final tests _	<u>v</u> ¥*	Hours
Static rock Pr	essure <u>1200</u>	psig (surf	ace pressure)	after <u>16</u>	Hours
			_		
Second Product	ng formation		Pay zone de	pth (ft)	
Jecona II vaaci					
Gas: Initial	open flow	MCF/d	Oil: Initi	al open flow	Bb1/d
Gas: Initial	open flow	MCF/d	Oil: Initi	al open flow	Bb1/d
Gas: Initial	open flow open flow open flow betwe	MCF/d	Oil: Initi	al open flow	Bb1/d

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERV& 20/2013 FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS. INCLUDING COAL ENCOUNTERED

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w/470,000 scf N₂ @ 6000 scf/m; ATP - 3250 psi; ISIP - 1800 psi.

FORMATION	ТОР	BOTTOM
Sand & Shale	0	1300
Big Lime	1300	1470
Big Injun	1470	1585
Shale	1585	2090
Berea	2090	2210
Devonian Shale	2210	3225
Onondaga	3225	3350
Shale	3350	3855
Lockport	3855	3925
Big Six	3925	3965
Keefer	3965	3990
Rose Hill	3990	4156
TD		4156

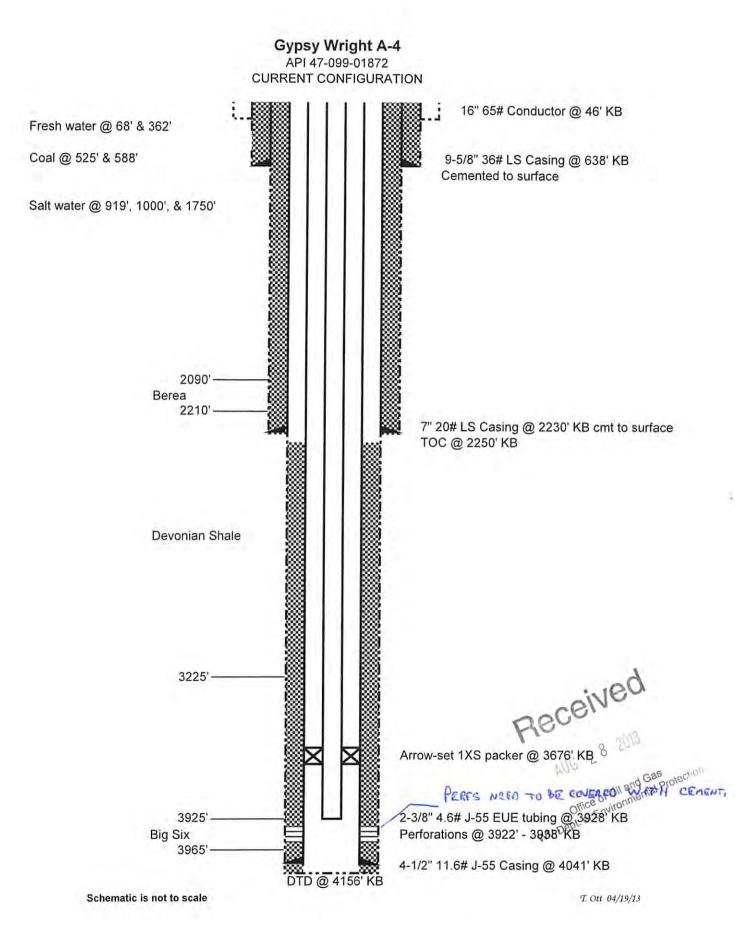
78121

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

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WW-4A Revised 6-07			2) O ₁	 Date: <u>August 14, 2013</u> Operator's Well Number Gypsey Wright A-4 		
			3) AP	PI Well No.: 47 -	099	- 01872
D	EPARTMENT OF ENV <u>NOTICE 0F AP</u>	IRONMENTA		CO PER E LINE D'ALLER DE LA CALLER		AS
4) Surface Ov	vner(s) to be served:	(5) (a)	Coal Operato	r		
(a) Name	See Attached Sheet	V	Name	Rock Springs De	velopment, Inc	. V
Address			Address	Camp Creek Rd.		
				East Lynn, WV 2	5512	
(b) Name			(b) Coal Ov	wner(s) with Declar	ation	1
Address			Name	Sarah F. Wright		1/
			Address	701 Big Branch F	Road	V.
	2			Wayne, WV 255		
(c) Name			Name	Babara B. Morris		Y
Address			Address	P.O. Box 97		
		1		Wayne, WV 255	70	
6) Inspector	Jeremy James		(c) Coal Le	ssee with Declarati	on	
Address	P.O. Box 147		Name	N/A		
	Ona, WV 25545		Address			
Telephone	(304) 951-2596					

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

- The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the (1)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	Alth
COMMONWEALTH OF PENNSYLVANIA	Its:	Regulatory Supervisor	
Notarial Seal	Address	Five Penn Center West, Suite 401	
Constance C. Carden, Notary Public McDonald Boro, Washington County		Pittsburgh, PA 15276	
My Commission Expires Nov. 16, 2013	Telephone	(412) 249-3850	
Member, Pennsylvania Association of Notaries			1
Subscribed and sworn before me	C. Carden	ay of August Notary Public	Received
My Commission Expires Nover	nber 16, 2013		and to de
			HUM

Oil and Gas Privacy Notice

of Oil and Gas

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our ental Protection regulatory duties. Your personal information may be disclosed to other State agencies or third parties in/the hormal 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 <u>depprivacyoffier@wv.gov</u>. 09/20/2013

of

WW-9 (5/13)

API Number 47 - 099 Operator's Well No. Gypsy Wright A-4

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cabot Oil 8	Gas Corporation	OP Code
Watershed (HUC 10) Twomil	e Creek Qu	adrangle _ Wayne
Elevation 821.10'	County Wayne	District Stonewall
Will a pit be used for drill cutti	ngs? Yes No X	ANY EFFLUENT MUST BE CONTAINED IN TANKS, If so, what ml.?
		If so, what ml.?
Lan- Und Reu Off	ethod For Treated Pit Wastes: d Application erground Injection (UIC Permit Number se (at API Number Site Disposal (Supply form WW-9 for di er (Explain_ No treated pit wastes wi	
Will closed loop system be use	d? N/A	
Drilling medium anticipated fo	r this well? Air, freshwater, oil based, etc	no drilling proposed
-If oil based, what typ	e? Synthetic, petroleum, etc	
Additives to be used in drilling	medium? N/A	
		tc. No cuttings produced during plugging operation
신 것 이 것 같은 것 같은 것 같이 많이 했다.		ement, lime, sawdust)
on August 1, 2005, by the Offic provisions of the permit are er law or regulation can lead to er I certify under penalt application form and all attace obtaining the information. I b	the of Oil and Gas of the West Virginia De forceable by law. Violations of any terr forcement action. y of law that I have personally examine thements thereto and that, based on my elieve that the information is true, accu	s of the GENERAL WATER POLLUTION PERMIT issued epartment of Environmental Protection. I understand that the n or condition of the general permit and/or other applicable ed and am familiar with the information submitted on this inquiry of those individuals immediately responsible for rate, and complete. I am aware that there are significant the or imprisonment.
Company Official (Typed Nan	ne) Kenneth L. Marcum	×116 28 E
Company Official Title_ Regu		office of Othand Gas
Subscribed and sworn before m Constand My commission expires <u>11/16/</u>	e a. Carden	Notary Public Notarial Seal Constance C. Carden, Notary Public McDonald Boro, Washington County My Commission Expire 04, 20,0020 Member, Pennsylvania Association of Notarial

Form WW-9

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Proposed Revegetation Treatment: Acres Disturbed	Prevegetation pH 6.5
Lime Tons/acre or to correct to pH _	6.5
Fertilizer (10-20-20 or equivalent)lbs/ac	cre (500 lbs minimum)
Mulch Pulp Fiber at 1000 to 1500 Tons/acr	e
Seed 1	Mixtures
Area I	Area II
Seed Type Ibs/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 - 1 Alta Sweet Clover - 5
Yellow Clover - 5 Birdsfoot Trefoil -10	Yellow Clover - 5 Birdsfool Trefoo

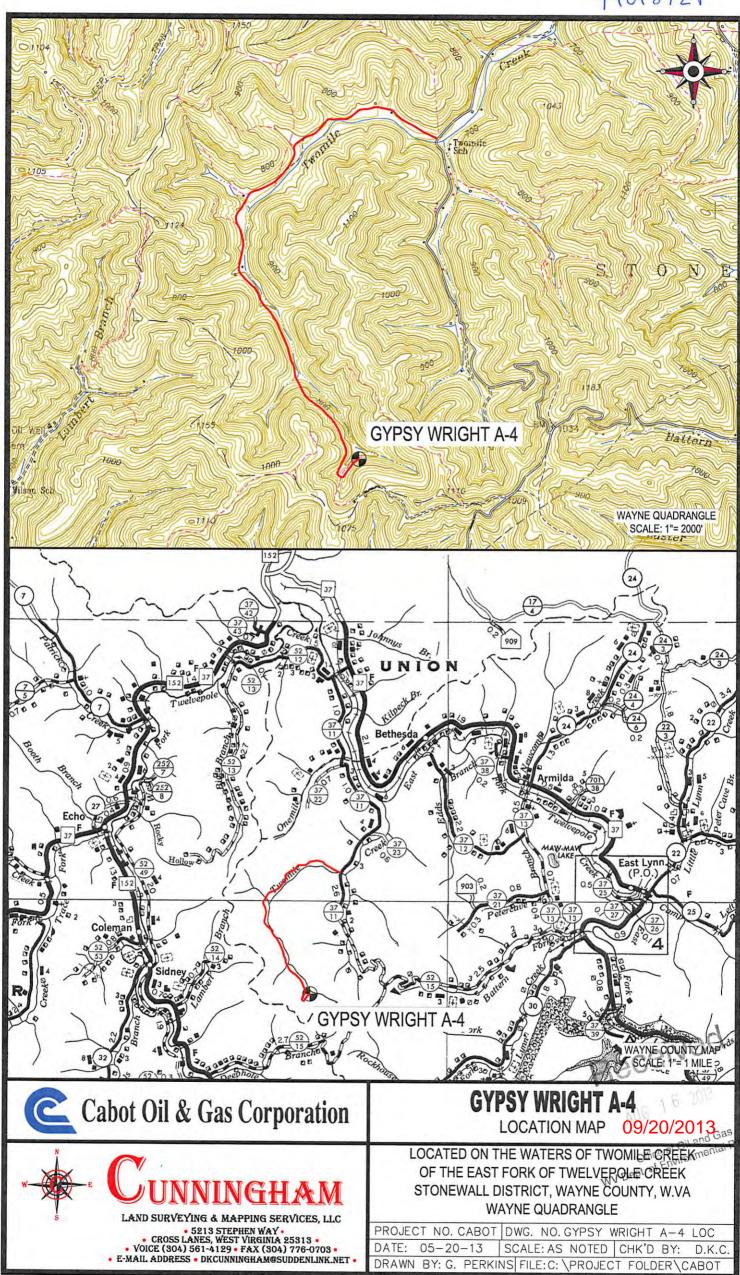
Attach:

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

Photocopied section of involved 7.5' topographic sheet.

<u> </u>		
Plan Approved by:		
Comments:		
		<u>.</u>
		<u> </u>
		.
•	a 1,13	Received AUG 28 2013 AUG 28 2013
Title: <u>IMSpector OOG</u> Field Reviewed? (V)Yes	Date: 8-21-13	CEIVER
Field Reviewed? () Yes	() No	Kee 2013
		AUG 28 Cas allo
		AUG 28 Low Office of Oil and Gas WV Dept. of Environmental Protection
		Unit Enviro

9901872P



	-	-7,410'
		Latitude: 38°10'00"
TM 15 TP 11		
	✓	82°25'00"
GYPSY WRIGHT A-3R	7	82°
120	71	
	TM 15 TP 13	ongitude
	A. X.	099-01956 H
North	7.5' Topo Location	
Z TM 15 TP 20	33.44	11 099-02038 S-2
	Surface Owner 2,400' Rodius	52
	TM 20. TP1	
	Henry Hurley, et al 71.5 Ac.	
	GYPSY WRIGHT A-4	
5 69-49-05-W		
099-01893	A A A	11
PRICHARD A-1		
X	TM 20 TP4	099-01955
		1
	+-0	
Surface Tract	5//	
NOTES:		
All known oil & gas wells within 2,400' of the proposed well location are shown hereon.	099-01061 TOM HILL 1 099-01952	
The bearings and distances shown hereon are bo	L-2	West Virginia State Plane South Zone NAD '27
on the WV State Plane Coordinate System, NAD South Zone.	27	N 422,857.61 : E 1,585,244.91 UTM 17 - NAD 83 - Meters
	I THE UNDERSIGNED, HEREBY CERTIFY TH	N 4,223,720.24 : E 373,629.67
FILE #:	PLAT IS CORRECT TO THE BEST OF MY KNOWLEDG	E AND CUNNING
DRAWING #: Gypsy A-4 ww6	BELIEF AND SHOWS ALL THE INFORMATION REQUI LAW AND THE REGULATIONS ISSUED AND PRESCR	RED BY
SCALE: <u>1" = 1000'</u>	THE DEPARTMENT OF ENVIROMENTAL PROTECTIO	N. No. 701 * 00
MINIMUM DEGREE OF ACCURACY: 1 : 12,729	Signed: Don K. Canningha	
PROVEN SOURCE Global Positioning	0	PLACE SEAL HERE
OF ELEVATION: System (GPS)	R.P.E.: L.L.S.:701	PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	OF WEST DATE: Man	20, 2013
WVDEP		ELL #: Gypsy Wright A-4
OFFICE OF OIL & GAS 601 57TH STREET	API WELL #: 4	
CHARLESTON, WV 25304	<u> </u>	
Well Type: Oil Waste Disposal	Production Deep	ATE COUNTY PERMIT
Gas Liquid Injection	Storage Shallow	
WATERSHED: <u>Twomile Creek</u>	ELEVATIO	DN: <u>821.10'</u>
COUNTY/DISTRICT: <u>Wayne</u>		ine
SURFACE OWNER: <u>Henry Hurle</u>		00/20/2012
OIL & GAS ROYALTY OWNER:		CILLITOL. 000
	NVERT DRILL DEEPER REDRILL	
	FORMATION PERFORATE NEW FORMAT REPLUG OTHER CHANGE (SPECIFY):_	
TARGET FORMATION:		IMATED DEPTH:
WELL OPERATOR Cabot Oil & Gas	Corp. DESIGNATED AGENT F	arian. Hall.
Address Five Penn Center West,	Suite 401 Address P.O. Box 26	0
City <u>Pittsburgh</u> State <u>PA</u>	Zip Code 15276 City Danville	State WV Zip Code 25053

