

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 08, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501593, issued to TRIAD HUNTER, LLC, 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.

Chief

James Martin

Operator's Well No: J.B. CASTO #116

Farm Name: TRIAD HUNTER, LLC

API Well Number: 47-1501593 Permit Type: Plugging

Date Issued: 05/08/2014

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date January 30	, 2014
2)Operator's	
Well No. J.B. Casto # 116	
3) API Well No. 47-015	- 01593

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON				
4)	Well Type: Oil/ Gas/ Liquid	d injection X / Waste disposal /				
.,		derground storage) Deep/ Shallow X				
	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					
5)	Location: Elevation 1190'GPS	Watershed Grannys Creek				
- 500	District Henry 2	County Clay 15 Quadrangle Newton 512				
6)	Well Operator Triad Hunter, LLC	7) Designated Agent Kim Arnold				
-	Address 125 Putnam Street	Address P.O. Box 154				
	Marietta, Ohio 45750	Waverly, W.V. 26184				
		\ 				
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor				
	Name Ed Gainer	Name N/A				
	Address P.O.Box 821	Address				
	Spencer, W.V. 25276					
		changes. Petween all plage				
Noti work	ification must be given to the district of can commence.	Office of Oil and Gas Office of Oil and Gas il and gas inspector 24 hours before permantal profection Wy Departmental Profection Date Environmental Profession				
	_ IV					

(2014)

Plugging Procedure Attachment (Wells with 8 5/8" Casing)

Well Name: J.B. Casto # 116 Permit Number: 47-015-01593

District: Henry County: Clay

MIIRU service rig and flowback tank; blow well down.

- 1. Pull tubing and rods OOH.
- 2. Check total depth with sandpump; clean out hole below bottom perforation.
- 3. Run 2 3/8" tubing below bottom perforation.
- 4. (Bottom Hole Plug) Mix/Pump 20 sacks Class A cement, (23.6 cu. ft.), ¼ lb.flocele/sk., no CaCl.
- BHP (2142'- 1892') 5. Displace cement through tubing with gel water.
- 6. Pull 2 3/8" tubing OOH.
- 7. RIH with casing cutter tool, check depth of 1st plug and find 4 1/2" cement top (free pipe).
- 8. Cut-off 4 ½" casing just above the cement top, break circulation, and pull one jt. of casing OOH.
- 9. (Cut Plug) Mix/Pump 30 sacks Class A cement, (35.4 cu. ft.), 1/4 lb. flocele/sk.,no CaCl.
- 10. Displace cement through casing with gel water.
- 11. Pull 4 1/2" casing up to the subsea elevation depth.
- 12. (Elevation Plug) Mix/Pump 30 sacks of Class A cement, (35.4 cu. ft.), 1/2 lb. flocele/sk., no CaCl. (1240 1140)
- 13. Displace cement through casing with gel water.
- 14. Pull 4 1/2" casing to 100 feet below surface.
- 15. (Surface Plug) Mix/Pump 30 sacks of Class A cement, (35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl.
- 16. Circulate cement to surface.
- 17. Pull remaining joints of 4 ½" casing OOH. Top load annulus with Class A cement to surface.
- 18. Weld a three foot monument pipe on to the existing casing. Fill monument pipe with cement and attach identification plate to monument pipe.
- 19. RDMO service rig and supporting equipment.
- 20. Reclaim well site and lease road.

Plug Summary

ELW 1190'

	(Plug Name)	(Thickness)	(Cement Type)	(Sacks)	EGENED Gas (Cribic Feet) 23.6 2014
1.	Bottom Hole	250 ft.	Class A	20 Hick	3 ON 23.6 2014
2.	Cut Plug	100 ft.	Class A	30	FEBSA Lover of 35.4 artment of 35.4 artment of Protection 35.4 artment of Protection 35.4 artment of Protection 35.4 artment of Section 10.4 artment of 10.4 a
3.	Elevation Plug	100 ft	Class A	3020	35.4 artmer niech
4.	Surface Plug	100 ft.	Class A	30	W 88.4 ntal Pio
5.	Totals:			110 sacks	129.8 cu. ft.

	150	1593p
t bre-		1-9-80 , 19
Operato Well No	r's . J. B.	Casto 116
		- 015-1593- County Per
sal "		
ep/	Shallow	
angle:	Newton 7.	.5'
Jame	s A. Crews	
	Box 1588	
Parke	ersburg, V	V 26101
/		
OR FOR THI	S WORK:	
artin Nic	hols	
lendenin,	WV	
MATE OF	120.3	
	2110	_ Feet
Tools	-	
area? No		
5	-1.5	19 79
NT FILL-UE		ACKERS
R SACKS bic feet)		
	Kinds	
E 1377		
205 sks.	Sizes	
50 sks	Depths se	
	Perforati	ons:
	Тор	Bottom
cone depth		feet
flow,	Bb1,	
	Bb1,	Cd.

FORM (Obver	IV-35 rse)		TATE OF WEST WEST THENT OF MINES, OII	AND GAS DIVIS	LON Operato	1-9-80,
[08-78			WELL OPERATOR'S	REPORT	Well No	J. B. Casto 110
233019		DRILLING, FRACT	"RING AND/OR STIMIN	ATING, DE PHYS	API Wet	Un. 47 - 015-1593- State County Pe
WELL TYPE:	011/	Gas/	Liquid Injection_	X / Waste Di	sposal	
	(If "Gas"	, Production_	/ Underground	storage/	Deep/	Shallow /)
LOCATION:	Elevation	: 1157.64	Watershed:	Granny's Cree	ek	
	District:	Henry	County:Cl	ay Qu	adrangle:	Newton 7.5'
WELL OPERATO	OR	Pennzoil C	ompany	DESIGNATED AGE	NT Jame	s A. Crews
Address		P. O. Box	1588	Address	P. 0	. Box 1588
	-	Parkersburg	3, WV 26101			ersburg, WV 26101
PERMITTED WO	RK: Drill	X/ Conver	t/ Drill deep	per/ Redr	111/ Pr	acture or stimulate _
	Plug	off old format	ion/ Perfor	ate new formati	on/	
	Other	physical chan	ge in well (specif	y)		
PERMIT ISSUE	ED ON	3-19	_, 49 <u>79</u>	DTI & GAG THE		
(IF APPLICA	BLE: PLUG	GING OF DRY HOT	F ON			
COMITAL	JOUS PROGR	ESSION FROM DRI AL PERMISSION C	LLING OR	Name		
		, 19	STATINED	Address _	Clendenin,	WV
			Ric Indon	-		
Depth	f complete	214	Big Injun		Depth	2110 Feet
Water	trate des	ed well,	2 feet Ro	tary X / Ca	ble Tools	-
racer s	trata dept	n: Fresh,	feet; salt,	feet.		
coal se	am depths:		Is coal be	eing mined in t	he area? No	_
work wa	s commence	d5	-11 , 19 <u>79</u> ,	and completed	5	-15 , 19 79
CASING AND T	UBING PROC	RAM				
CASING OR	11	ECIFICATIONS	W			
TUBING TYPE	1	elited white		INTERVALS C	DEMENT FILL-UI	PACKERS
Conductor	1225	de per 11 New	Used For drilling	Left in well	(Cubic feet)	
Fresh water						Kinds
Coal	0.5/0					
Intermediate	8-5/8		323	(323)	205 sks.	Sizes
Production	4-1/2		2133	2133	50 sks	Depths set
Pubing						
iners						Perforations:
						Top Bottom
PEN FLOW DAT						
Producin	ng formation	onInj	un	±93	ay zone depth	feet
Gas	: Initiul	open flow, _	Met/d (011: Initial of	pen flow.	196f
	Final c	pen flow,	Mcf/d	Final oper	n flow,	Bb1/d

oddc1mg	ormation	111,011		Pay z	one depth		fee
Gas:	Initial open flow	the state of the s	011:	Initial open		Bb1/d	_ , , , ,
	Final open flow,			Final open fl	ow,	Bb1/d	
	Time of open	flow between initial	and f	inal tests,	hours	05/00/20	114
Stat1	c rock pressure, _	psig (surface	measu	rement) after	DEGELVED	1 00/00/20 himas	, 1 4
[If applie	able due to multipl	psig (surface e completion]		09	ice of Oil and	1.Com	
Second pro	ducing formation _			Pay zo	one FEB 0 1 20'	14	feet
Gas:	Initial open flow,	Mef/d	011:	Initial open	LER N	- retrole	1661
	Final open flow,	Mor/d flow between initial		Initial open :	WV Departin	Protection	
	Time of open	flow between initial	and f	inal tests, En	vironmental		
Statt	o pouls and						

Static rock pressure, _____ psig (surface measurement) after ____ hours shut in

FORM IV-35 (Reverse)

[08-78]

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

Fractured 11-20-79 w/250 gals. 15% HCL, 150 BW, 1000# 20/40 sd.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom	femarks Including indication of all fresh and salt water, coal, cil and gas
Sand & Shale		1 3010		Feet	and salt water, coal, oil and gas
Sand	,	1	0	96	
Shale	, ,		96	114	-
Sand		1	114	148	
Shale	•	1	148	160	
Sand] .		160	224	
Shale		1	224	246	
Sand		J	246	338	
Shale	i		338	460	
Sand	· I	1	460	492	
Shale			492	504	
Sand	ļ	}	504	546	·
Shale			546	682	
Sand		1	682	742	
Shale		ļ	742	776	
Sand			776	792	
Shaley Sand			792	842	
Sand			842	870	
Shale	ļ		870	888	
Sand			888	898	
Shale			898	938	
Sand			938	994	
Shale	1		994	1008	
Sand			1008	1076	
Shale			1076	1084	
Sand	1 1	ĺ	1084	1134	
Shale			1134	1188	
Sand	1 1		1188	1296	
Shale	1 1		1296	1322	
Sand	1 1	j	1322	1396	
Shale		1	1396	1554	•
Sand		1	1554	1558	
Shale		ſ	1558	1562	
Sand			1562	1568	•
Shale		f	1568	1602	
Sand			1602	1610	
Sandy Shale	1		1610	1642	
And Buate			1642	1654	

(Attach separate sheets to complete as necessary)

Wel.	ll Operator	
Ву		
Its _		RECEIVE and Gas
		RECEIVED 109/2014 ice of Oil and Gas FEB 21 2014 WV Department of Wironmental Protection

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

FORM IV-35 (Reverse)

[08-78]

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

Fractured 11-20-79 w/250 gals. 15% HCL, 150 BW, 1000# 20/40 sd.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all freand salt water, coal, cil and
Sand			1654	1774	, sear, pri una
Shale		1	1774	1846	Y
Sand	4	1	1846	1850	
Little Lime			1850	1916	M .
Pencil Cave			1916	1928	
Big Lime	1		1928	1970	
Loyalhanna	1	1	1970	2032	
Keener	1	1	2032	2046	
Big Injun		1	2046	2072	
Shale		1	2072	2102	
Squaw			2102	2118	
Shale			2118	2142	
Total Depth PBD				2142	
1.00				2120	
					100
			1 1		
			1		

(Attach separate sheets to complete as necessary,

Pennzoil Company

Well Operator

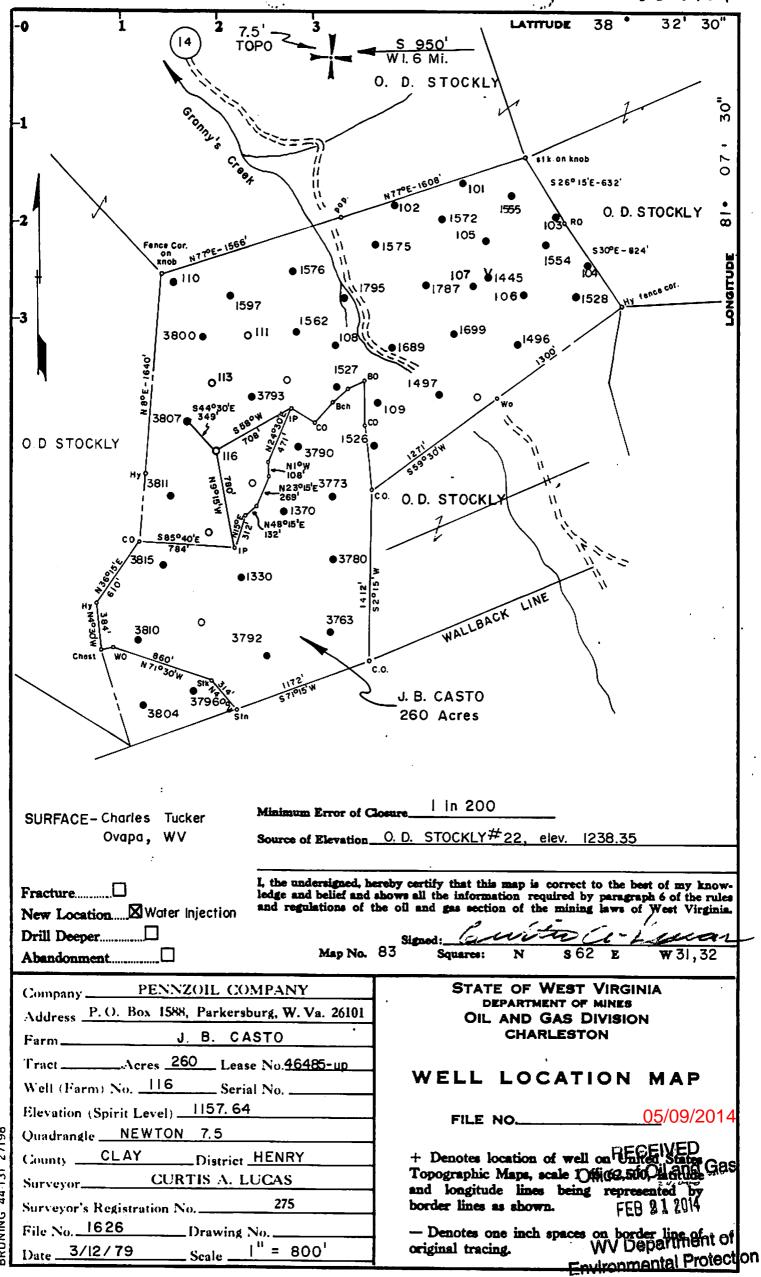
Civil Engineering Beat and Gas Office Office

Total 4-15 FEB 21 2014 WV Department of Environmental Protection

Regulation 3.02(i) provides as follows: NOTE:

"The term 'lag' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

The state of the state .



McCullough

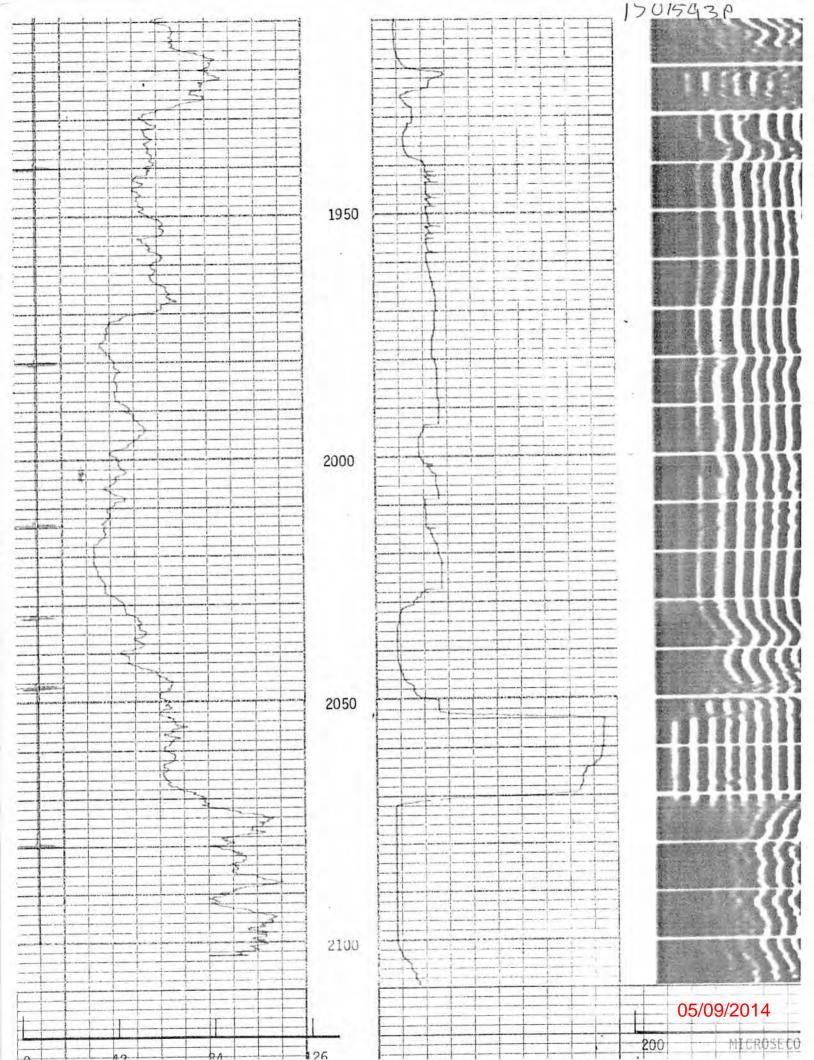
BOND CEMENT AND OR SONIC SEISMOGRAM LOG

GAMMA RAY

FILING NO.	carrer.	PENNZO	IL COMPA	NY		
HBC-GR-SS-98775	COMPA	NT				
	WELL	J.B. C	J.B. CASTO #116			
	FIELD	HENRY	HENRY DISTRICT			
DEPT.	FIELD					
0 . 0	COUNT	Y_ CLAY	CLAY STATEWEST VIRGINIA			
NG. CO.	LOCAT	ION			OTHER SERVICES:	
PETROLEUM ENGR. FILE COP	S & E V. 3	GRANNY'S CREEK NEWTON 7-1/2 QUAD.				
	SEC.	TWP.		SE.	ELEVATIONS 1165.64	
PERMANENT DATUM		GL ELEV. 1157.64'		64'	1164 64	
LOG MEASURED FROM		KB			GL 1157.64	
DRILLING MEASURED	FROM	KB			1	
DATE		8-7-79				
RUN NO.		ONE BOND CEMENT-GAMMA RAY-SONIC SEISMO			TSMOGDAM	
TYPE LOG			-GAMMA KA	11-30NIC 3E	Landanan	
DEPTH - DRILLER		2145'	-			
DEPTH - LOGGER		2114'	-			
BOTTOM LOGGED INT		2110'	-			
TOP LOGGED INTERV	AL	1650'	-	_		
TYPE FLUID IN HOLE		WATER				
SALINITY PPM CL.			_			
DENSITY LB./GAL			-			
		FULL				
MAX. REC. TEMP. DEG	. F.		4			
OPR. RIG TIME		1-1/2 HOURS				
RECORDED BY		MAYFIELD				
WITNESSED BY		MR. HELDMAN			1	

RUN		BORE HOLE RE	CORD		CA	ASING RECOR	D	4.4-3
NO.	BIT	FROM	то	SIZE	WGT.	FROM	то	ED
1	7 7/01	334'	1/151	8_5/8"		0	322:CE)	JED GO
	6-3/4	1415'	TD	4-1/2"		0	FIDE	1310
	0-3/4	1110					10 9010	ALOLO
-	1	250		3			Ollio	3 100
_							FER	1-
_	-		1		110			- artmo

WV Department of Environmental Protection



01593

WW-4A Revised 6-07

1) Date:	January 30, 2014	
2) Operator	r's Well Number	
J.B. Casto # 116		

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

3) API Well No.: 47 -

() NT	ner(s) to be served:	5) (a)	Coal Operato	
(a) Name Address	Triad Hunter, LLC 125 Putnam Street		Name Address	N/A
Address	Marietta, Ohio 45750		Address	
(b) Name	Manetta, Onio 40100		(b) Coal Or	wner(s) with Declaration
Address	·		Name	N/A
Address	-		Address	100
			nuuress	-
(c) Name			Name	-
Address			Address	
				-
6) Inspector	Ed Gainer		(c) Coal Le	essee with Declaration
Address	P.O. Box 821		Name	N/A
3513055075	Spencer, W.V. 25276		Address	
Telephone	(304) 389-7582			
(1) The	application to Plug and Abando	on a Well on For	m WW-4B, which	h sets out the parties involved in the work and describes the
(2) The	its and the plugging work order plat (surveyor's map) showing t	he well location	on Form WW-6.	
(2) The The reason However, Take notic accompan Protection the Applie	its and the plugging work order plat (surveyor's map) showing to a you received these documents is the you are not required to take any action the that under Chapter 22-6 of the We ying documents for a permit to plug with respect to the well at the locat	The well location of the well location of the well location at all. The well location at all location at all location at all location at all location described on the location described or the location described or location at all location described or location at all	on Form WW-6. regarding the appl the undersigned wel I with the Chief of the attached Applica certified mail or d	lication which are summarized in the instructions on the reverses side Il operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmenta tion and depicted on the attached Form WW-6. Copies of this Notice
(2) The The reason However, Take notic accompan Protection the Applie	its and the plugging work order plat (surveyor's map) showing to a you received these documents is the you are not required to take any action the test that under Chapter 22-6 of the Weying documents for a permit to plug, with respect to the well at the locate cation, and the plat have been mailed cumstances) on or before the day of the plat have been mailed the company of the plat have been mailed the pl	the well location of that you have rights on at all. lest Virginia Code, the and abandon a well tion described on the ed by registered or mailing or delivery	on Form WW-6. I regarding the appl the undersigned well with the Chief of the attached Applica certified mail or d to the Chief.	lication which are summarized in the instructions on the reverses side Il operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmenta ation and depicted on the attached Form WW-6. Copies of this Notice
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(2) The The reason However, Take notic accompan Protection the Applic certain cir	its and the plugging work order plat (surveyor's map) showing to a you received these documents is the you are not required to take any action the that under Chapter 22-6 of the We ying documents for a permit to plug, with respect to the well at the location, and the plat have been mails cumstances) on or before the day of a By: Its: Add Tele I sworn before me this Expires	the well location of the property of the prope	on Form WW-6. I regarding the appl the undersigned well with the Chief of the attached Applica certified mail or dothe Chief. Triad Hunter, LLC Rocky Roberts Senior V.P. Appalact 125 Putnam Street Marietta, Ohio 4575 (740) 374-2940	lication which are summarized in the instructions on the reverses side. Il operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmentation and depicted on the attached Form WW-6. Copies of this Notice delivered by hand to the person(s) named above (or by publication in the contract of the person of the publication in the contract of the person of the contract of the person of the contract of the person of the contract of the c

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.

WW-9 Rev. 5/08

	Page	1	of 2	
API Number 47 -	015		01593	
Operator's Well N	O. J.B.	Casto # 1	16	

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

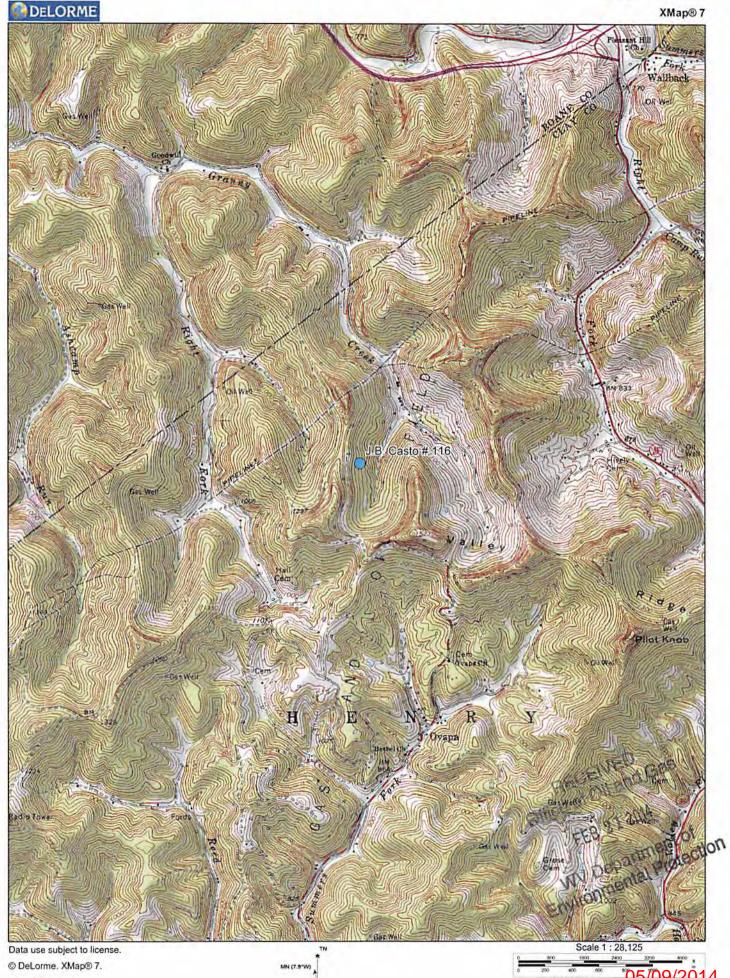
Watershed Grannys Creek Quadrangle Newton	Description of anticipated Pit Waste: No Pit; fluids will be separated at Ovapa Facility; oil stored and salt water re-injected Pit Waster in Proposed Disposal Method For Treated Pit Wastes: Land Application)	OP Code		
Description of anticipated Pit Waste: No Pit; fluids will be separated at Ovapa Facility; oil stored and salt water re-injected. Will a synthetic liner be used in the pit? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number Reuse (at AP) Number Off Site Dispposal (Supply form WW-9 for disposal location) Other (Explain Proposed Work For Which Pit Will Be Used: Drilling Workover Plugging Other (Explain I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other approvision and lat attachments thereto and that, based on my inquiry of those individuals immediately respons obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are signenalities for submitting false information-inelusing the possibility of fine or imprisonment. Company Official Signature Company Official Signature Company Official Title Senior V.P. Appalachian Operations Subscribed and sworn before me this 30th day of January Notory Public Notory Public	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) I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERM on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERM on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand and are any or regulation can lead to enforcement action. Lecrify under penalty of law that I have personally examined and am familiar with the information submittee application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsibility in the information, I believe that the information is true, accurate, and complete. I am aware that there are signaling the information, I believe that the information is true, accurate, and complete. I am aware that there are signaling the information, I believe that the information is true, accurate, and complete. I am aware that there are signaling the information, I believe that the information is true, accurate, and complete. I am aware that there are signaling the information, I believe that the information is true, accurate, and complete. I am aware that there are signaling the information is greater to the properties of the general permit and/or other at a word of the general permit and/or other and any of the general permit and/or other and any or the general permit and or other any or th	Watershed Grannys Creek	Quadr	angle Newton		
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Property Boundary

Diversion William Land Land Land Land Land

F	~	Wet Spot
Existing Fence — X — X Planned Fence — / — / —	- x -	Drain Pipe with size in inches (5)
Stream C		Waterway C+ C+ C+ C+
Open Ditch —	7	Cross Drain
Rock 888888		Artificial Filter Strip XXXXXXXXXXXXXXXX
North N		Pit: cut walls
Buildings 📟		Pit: compacted fill walls
Water wells		Area for Land Application of Pit Waste
Drill site		
Proposed Revegetation Treatment: Ac	res Disturbed One	(1) Prevegetation pH 5.5
	res Distarbea	Treregetation pri
	s/acre or to correct to p	Н_0.5
Fertilizer (10-20-20 or equiva	lent) 600	bs/acre (500 lbs minimum)
Mulch 90 - 100 bale	s/acre Ton	s/acre
(viulen_		
	Se	eed Mixtures
Area I		Area II
	/acre	Seed Type lbs/acre
Orchard Grass	30%	
Rye (Annual & BT)	35%	
Timothy (Climax)	25%	
Clover Med. Red)	10%	
\ttagh.		
	oposed area for land ap	pplication.
Drawing(s) of road, location,pit and pro		pplication.
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Attach: Drawing(s) of road, location,pit and property and		PECEIVED PARTY OF OIL APT
Drawing(s) of road, location,pit and property of the Photocopied section of involved 7.5' to Plan Approved by:		PECEIVED RECEIVED

LEGEND



www.delorme.com







West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

_{API:} 47-015-01593	WELL NO.: 1	16
FARM NAME: J.B. Casto		
RESPONSIBLE PARTY NAME:	Triad Hunter, LLC	
	DISTRICT: He	enry
QUADRANGLE: Newton		
SURFACE OWNER: Triad I	Hunter, LLC	
ROYALTY OWNER: Kanaw	ha Banking and Tru	ust Co. et al
UTM GPS NORTHING: 4265		
UTM GPS EASTING: 04865		_{ION} . 1190'
above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone height above mean sea let 2. Accuracy to Datum – 3.0: 3. Data Collection Method: Survey grade GPS: Post Pro	: 17 North, Coordinate Units: movel (MSL) – meters. 5 meters	
Mapping Grade GPS X: Post	Processed Differential	-CEIVED Gas
Rea	I-Time Differential X	REO OII all
4. Letter size copy of the to I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	opography map showing the w data is correct to the best of my required by law and the regulation Gas. Geologist	RECEIVED Gas ell location. knowledge angleB 2.1 2014 ons issued and 1/16/14onmental Protection
Signature	Title	Date

1501593 P



Chuck Taylor

Geographic/UTM Coordinate Converter

You can convert between geographic coordinates and Universal Transverse Mercator (UTM) coordinates using this form.

Note: This is a JavaScript-powered form. If you have difficulties using this form, check your browser's settings to make sure you have enabled JavaScript.

Programmers: The JavaScript source code in this document may be copied and reused without restriction.

If you have a Java 1.1-compliant browser, and especially if you need to use an ellipsoid model other than WGS84, you may want to try the <u>Coordinate and Datum Transformations tool</u>.

Geographic (degrees decimal)	To/From		UTM	J.B. Casto#116
lon -81.154731553184	>>	x (easting)	0486515	3.2.13.2.13.2
lat 38.5389343322620	<<	y (northing)	4265625	
		zone	17	
		hemisphere	N S	

Geographic coordinates are entered and displayed in decimal degrees. Negative numbers indicate West longitudes and South latitudes. UTM coordinates are entered and displayed in meters. The ellipsoid model used for computations is WGS84.

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Office of Oil and Gas

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WV Department of
Environmental Protection