

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: 47-1501727, 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.

James Martin

Chief

Operator's Well No: R.R. LOCKHART #506

Farm Name: BULLARD, RODNEY

API Well Number: 47-1501727

Permit Type: Plugging Date Issued: 05/08/2014

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. 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) Ope	rator	's				
Wel	1 No.	R.R. Lo	ckhart # 506			
3) API	Well	No.	47-015		- 01727	_

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

		MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas/ Liqui	d injection X / Waste disposal /
	(If "Gas, Production X or Un	derground storage) Deep/ Shallow X
5)	Location: Elevation 1334'GPS	Watershed Right Fork of Camp Run
	District Henry 02	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 Name Ed Gainer	9)Plugging Contractor Name N/A
	Address P.O.Box 821	Address
	Spencer, W.V. 25276	
10)	(OFF ATTACHED CHEFT)	ner of plugging this well is as follows:
		changes!

Notification must be given to the district oil and gas inspector 24 homicebef Oil and Gas work can commence.

Work order approved by inspector

Date

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Date

Partment of WV Department of Environmental Protection

(BHP 2344' - 2094')

ELEU PLUC

(2014)

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

Well Name: R.R. Lockhart # 506 Permit Number: 47-015-01727

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.), 1/4 lb.flocele/sk., no CaCl.
- 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 ½" cement top (free pipe).
- 8. Cut-off 4 ½" casing just above the cement top, break circulation, and pull one it. of casing OOH.
- 9. (Cut Plug) Mix/Pump 30 sacks Class A cement, (35.4 cu. ft.), ¼ lb. flocele/sk.,no CaCl.
- 10. Displace cement through casing with gel water.
- 11. Pull 4 ½" casing up to the subsea elevation depth.

1334 12. (Elevation Plug) Mix/Pump 30 sacks of Class A cement, (35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl. (384 - 1284)

13. Displace coment through casing with gel water of surface esq 500 to 450

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.), 1/2 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.

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	(Plug Name)	(Thickness)	(Cement Type)	(Sacks)	(Cubic Feet)
1.	Bottom Hole	250 ft.	Class A	20	23.6
2.	Cut Plug	100 ft.	Class A	30	35.4
3.	Elevation Plug	100 ft.	Class A	30.	35.4
	Surface Plug	100 ft.	Class A	30	35.4
5.	Totals:			110 sacks	129.8 cu. ft.

RECEIVED Office of Oil and Gas

FEB 2 0 2014

WV Department of Environmental 05/09/20114

BIL INAUN 2250'



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary	Oil
Cable	Gas
Recycling	Comb.
Water Flood X	Storage
Dienocal	

at No.	17-015-1727-LI			-	Water Flood Disposal	Storage(Kind)
npany Pennzoil (lress P. O. Box 1588 m. R. R. Lockhart	R. Parkersburg	<u>. WV</u> 26101	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
ation (waters) Char	leston Fork Elev.	142.6 Si	ze 0-16	Tre-		
rict Henry	CountyClay		ond.			1
surface of tract is owne	ed in fee by	1.	3-10"			1
Roy Rogers			5/8	503	503	300 sks
dress Valley Fork,	WV	- 0 Touc+ 7	5/6	2026	969	
neral rights are owned by	Kanawna Bank	eston WV 5	1/2			1
Co. Address P.O.	BOX 393, Charle	4	1/2	2337	2337	75 sks
Iling Commenced 7-	14 90	3				
lling Completed 7-	14-00	hble 2				
tial open flow	cu. II	bble L	iners Used			
ll open Il treatment details:	_hrs. before test	RP. =	Attach copy of ce	ementing rec	ord.	
Water Injection	Uall					10
esh wateroducing Sand		1	Depth	ater		
Formation Color						
Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas		

4701501727

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil. Gas or Water	* Remarks
					,	
						•
						angle.
					; !	•
						•
-						
					REC	EIVED 5/02/201 Oil and
					Office o	

Date 1-16 WV Departmental Protection

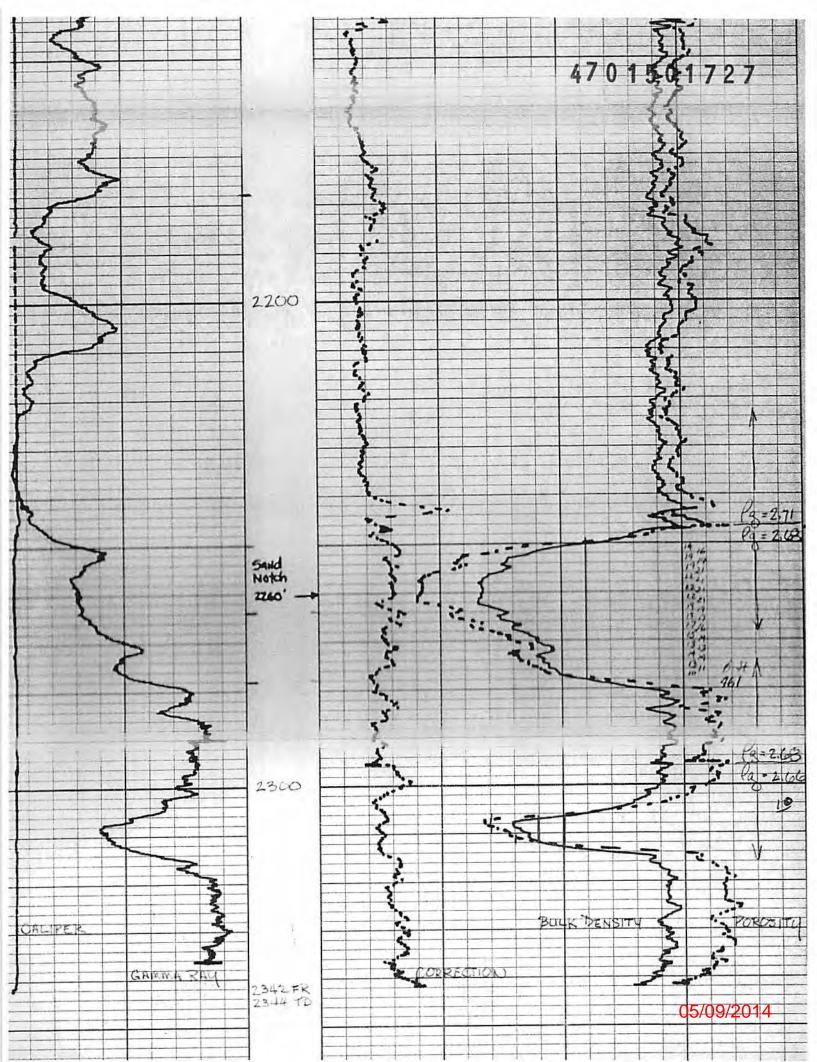
NPPROVED 6 COSTO OWNER

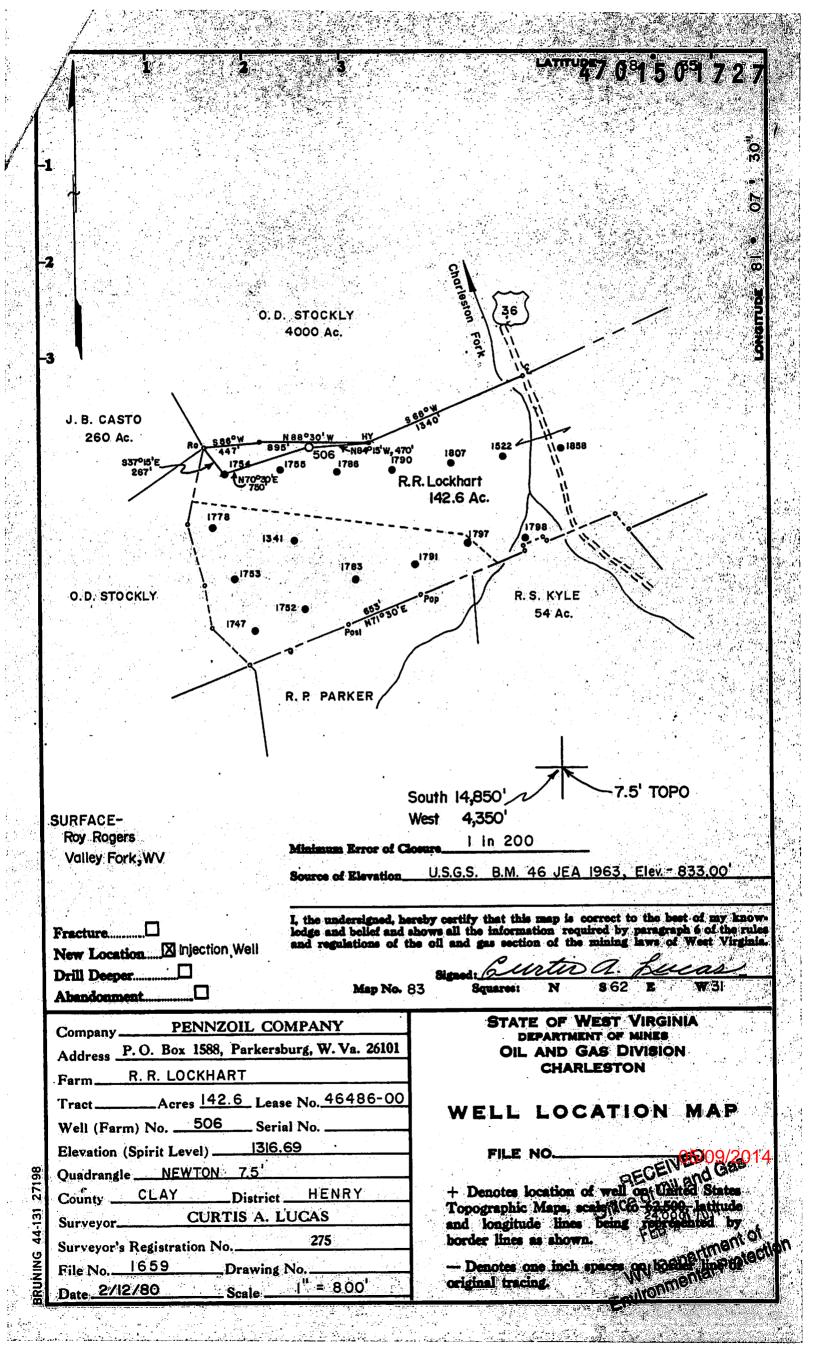
Owner



Basin Surveys, Inc.

COMPENSATED DENSITY LOG FILING NO. COMPANY PENNEOIL COMPANY PERMITO WO. WELL R.R. LOCKHART WIW \$500 47.012-17274 FIELD HENRY DISTRICT STATE N.VA. COUNTY CLAY LOCATION: CHARLESTON FORK OTHER SERVICES: DILAS: NEWTON 75' RGE Permanent Datum: GROUND LEVEL Elev KB . 326.41 : Elev. 131/2.62 Log Measured From KELLY BUSHIUG ID Ft Above Perm Datum DF 1335.67 G.L 13.6.61 Drilling Measured From KELLY BUSKING 13 July 80 Date Run No DNE Type Log GR-CAL-COL Depth-Driller 2340 Depth-Logger 2344 Bottom logged interval 2342 Top logged interval 850 GR TO SURFACE Type fluid in hole HED-MUD Salinity, PPM CI NA Density NA Level NA Max rec. temp, deg f UA Operating rig time 2 HZ3. Recorded by R. REINECKS Witnessed by R HELDMAN Bore-Hole Record Casing Record Run From From Bit To Size Wgt 200 ENE 674 SUNTACE . S.T





05/09/2014

WW-4A Revised 6-07

1) Date: January 30, 2014 2) Operator's Well Number R.R. Lockhart # 506

3) API Well No .: 47 -

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

		i) (a) Coal Operator
(a) Name	Rodney Bullard	Name N/A
Address	207 White Road	Address
4.14	Wallback, W.V. 25285	
(b) Name		(b) Coal Owner(s) with Declaration
Address	_	Name N/A
	-	Address
(c) Name		Name
Address		Address
	·	
6) Inspector	Ed Gainer	(c) Coal Lessee with Declaration
Address	P.O. Box 821	Name N/A
	Spencer, W.V. 25276	Address
Telephone	(304)389-7582	
relephone	(001)000 1002	_
Protection, the Applic	ying documents for a permit to plug and abando with respect to the well at the location describ	Code, the undersigned well operator proposes to file or has filed this Notice and Application at a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environment of the attached Application and depicted on the attached Form WW-6. Copies of this Noticed or certified mail or delivered by hand to the person(s) named above (or by publication elivery to the Chief.
	Well Opera	
	By:	Rocky Roberts Comp \Confine
	Its:	Senior V.P. Appalachian Operations
	Address	125 Putnam Street
		Marietta, Ohio 45750
	Telephone	(740) 374-2940
	•	No. of the last of
Flict	sworn before methis 304	day of Lanuary, 2014 Notary Public CENED Gas
My Commission	n Expires	27-16
Oil and Gas Priv	ALT DISTRICT	Office of Stagge
The Office of Oil regulatory dutie business or as no office will appro- information, ples	and Gas processes your personal info s. Your personal information may be seded to comply with statutory or rep priately secure your personal inform ase contact DEP's Chief Privacy Office	rmation, such as name, address and phone number, as a part of our disclosed to other State agencies or third parties in the normal course of ulatory requirements, including Freedom of Information Actor equals. O tion. If you have any questions about our use of your parsonal er at depprivacyoffier@wv.gov.



0.D. Stockly # 201

47-015-1728

R.R. Lock hart # 506

47-015-1727

R.P. Parker # 20694.

47-015-1954

Office of Oil and Gas

FEB 2 0 2014

WV Department of Environmental Protection

Environmental 05/09/2014

WW-9 Rev. 5/08

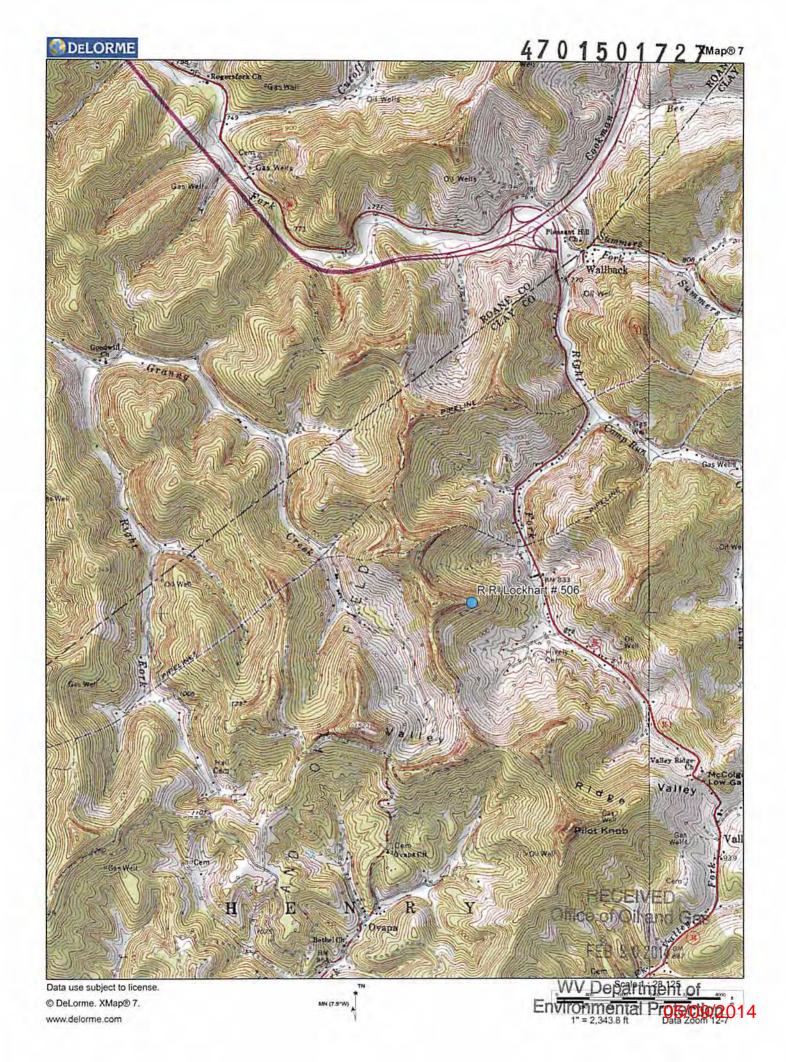
	Page 1		of 2	
API Number 47 -	015	- 0	1727	
Operator's Well No	R.R. Loc	khart #	506	

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 Triad Hunter, LL	С	OP Code
Watershed_Right Fork of Camp F	Run Q	uadrangle Newton
Elevation 1334' GPS	County Clay	District_Henry
Description of anticipated Pit Waste:	No Pit; fluids will be separate	d at Ovapa Facility; oil stored and salt water re-injected.
Will a synthetic liner be used in the pi	t?" No Pit "	
		nber
	spposal (Supply form WW-9	for disposal location)
Proposed Work For Which Pit Will B Drilling Workover Other (Ex		Swabbing Plugging
on August 1, 2005, by the Office of Oprovisions of the permit are enforced law or regulation can lead to enforced I certify under penalty of lapplication form and all attachment obtaining the information, I believe penalties for submitting false information Company Official Signature Company Official (Typed Name)	bil and Gas of the West Virginishle by law. Violations of any ment action. aw that I have personally exacts thereto and that, based on that the information is true, it ion including the possibility of the cocky Roberts	
Company Official Title Senior	V.P. Appalachian	Operations
Subscribed and sworn before me this	30th day of Jan	uary , ₂₀ 14
Elizabeth ?-	Libay	Notory Public
My commission expires	2-29-14	2 19-11

		LEGEND
Property Boundary	-	Diversion Comments of the Comm
Road = = = = = = = = = = =		Spring O
Existing Fence — X — X		Wei Spoi
Planned Fence//_	- /	Drain Pipe with size in inches (3
Stream	J	Waterway \longleftrightarrow \longleftrightarrow \longleftrightarrow
oran all	··· >	Cross Drain
Rock ESESSE		Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N		Pit: cut walls
Buildings Water wells		Area for Land Application of Pit Waste
Drill site		
Dian sale		2.2.2.2
Proposed Revegetation Treatment: Ac	res Disturbed One	e (1) Prevegetation pH 5.5
	s/acre or to correct to j	
		рН
Fertilizer (10-20-20 or equiva	lent) 600	lbs/acre (500 lbs minimum)
Mulch 90 - 100 bale	s/acre Ton	ns/acre
	S	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%	
Attach: Drawing(s) of road, location,pit and pr		application.
Photocopied section of involved 7.5' to	pographic sheet.	
Plan Approved by:		
Comments:		
-		4 1
Title: _ nspector		Date: 2 4 14
1	Yes (X) No
Tiend Met Terried.	1	1000





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

		F06
API: 47-015-01727		o.:_506
FARM NAME: R.R. LOC		
RESPONSIBLE PARTY NAM	E: Triad Hunter, L	LC
COUNTY: Clay	DISTRICT:	Henry
QUADRANGLE: Newton		
SURFACE OWNER: Rodn		
ROYALTY OWNER: Black	Stone Minerals L	LP et al
UTM GPS NORTHING: 426		
UTM GPS EASTING: 0487	807 GPS ELE	EVATION: 1334'
2. Accuracy to Datum – 3. Data Collection Metho	one: 17 North, Coordinate Un a level (MSL) – meters. 3.05 meters	its: meters, Altitude:
Rea	l-Time Differential	
Mapping Grade GPS X: F	ost Processed Differential	
	Real-Time Differential X	
	this data is correct to the best ion required by law and the re- ind Gas.	the well location. of my knowledge and
Signature Signature	Geologist Title	Date WV Department of Environmentab Frotoction



4701501727

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 Coordinate and Datum Transformations tool.

Geographic (degrees decimal)		To/From		UTM	R.R. Lockhart #506
lon	-81.139913532831	>>]	x (easting)	0487807	
lat	38.542458668790	<<	y (northing)	4266014	
			zone	17	
			hemisphere	ON OS	

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.

Chuck Taylor -- (Copyright) -- (Contact)

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WV Department of Environmenta 08/09/20014