

#### 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

August 06, 2014

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-3905446, issued to REED GAS INC, 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: AL-113

Farm Name: ADDINGTON MINING, INC.

API Well Number: 47-3905446 Permit Type: Plugging

Date Issued: 08/06/2014

### **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. <u>Failure to adhere to the specified permit</u> 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.

1) Date 6/10 . 20 14 2) Operator's Well No. AL-113 3) API Well No. 47-39-5446P

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

#### APPLICATION FOR A PEPMIT TO PLUG AND ABANDON

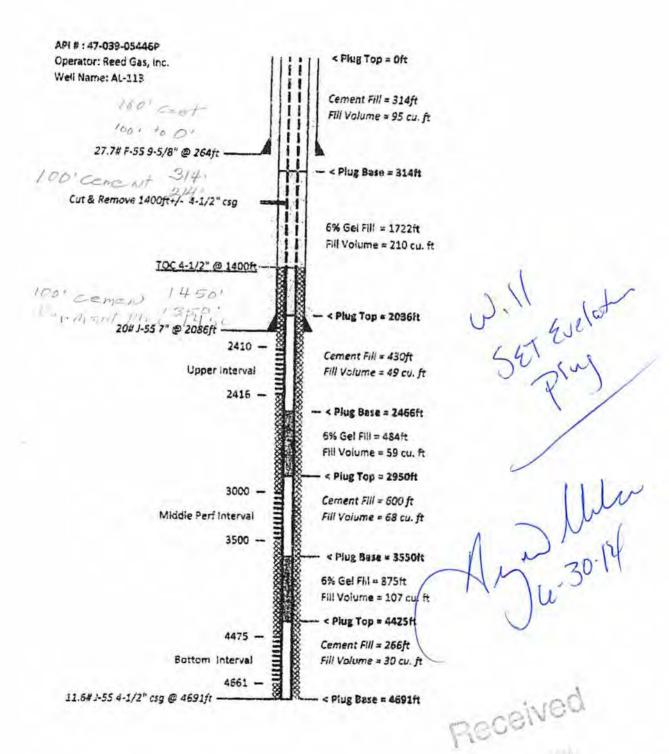
4)	Well Type: Oil/ Gas _x / Liquid	injection/ Weste disposal/ erground storage) Deep/ Shellow
5)		Watershed Middle Fork of Blue Creek County Kanawha Quadrangle Mammoth
5)	Well Operator Reed Gas INc.  Address Virginia Street Charleston WV. 25	
8)	Oil and Gas Inspector to be notified  Name Terry Urban  Address P.O.Box 1207  Clendenin WV. 25045	Name <u>Duckworth Well Service</u> Address P.O.Box 6871
	Perament Plug Set @1450' 100' cement 1450' to 1350' 100' cement 314' to 214' 100' cement to surface	
	ification must be given to the district on the can commence.	il and gas inspector 24 hours before permitted
Wor	k order approved by inspector	Pleceive

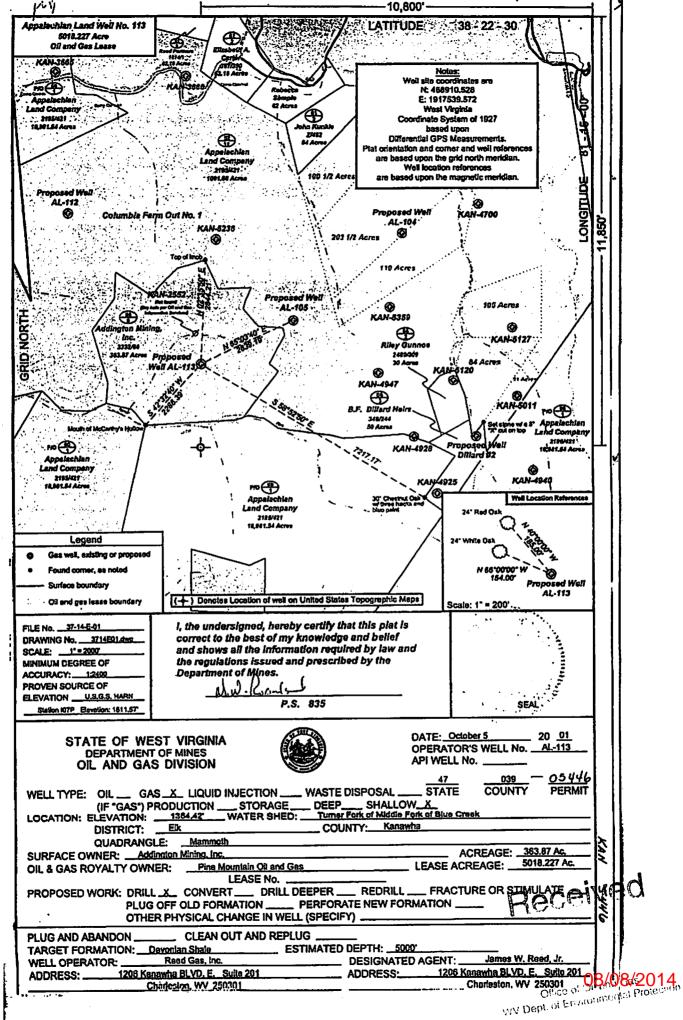


172 Odessa Drive Glen, WV 25088 (304) 548,7142

Well Plugging Work Order

39-5446





WR	- 35	
Rev	(5-0	31)

Date: 04/10/03

Rev (5-01)						API	# 47	-039-	05446	//	LP
			State of V	Vest Virg	inia		`			/'	
		Depart	ment of Env	ironmeni	al Protec	tion					
			Office o	f Oil & G	as						
		Wel	Opererators	Report of	Well Wo	rk					
Operators we	il name:	AL - 113		•							
arm Name:	Addington	Minning Inc		Operator	E .	4135	0				
ocation:	Elevation	1364			Quadrang	gle:	Mammol	h			
	District	Elk			County:		Kanayha	1			
	Latitude:	11850	Fect South		Deg 22	-					
	Longitude:	10800	Feet West	oi 81	Deg <u>15</u>	_Min.	_ <u>0_</u> Sec				
Company:	Reed Gas										
Address:			- Suite 201								
	Charleston	. WV 2530	1								
			0	101	I aga :						
Agent:	James W. Reed	Jr.	Casing &	Us ad in	Left i				T2101	. c f	. 1
nspector	Carlos Hively	11/00/04	Tubing	Drilling	Well	FT	100		Fill up		FT
Date Permit I		11/08/01	9 5/8	264	264 2086	FT	250	Sks			FT
	ork Commenced	12/19/01 03/22/02	<u></u>	2086	4691	FT	175		437		FT
	:k Completed	03/22/02	4 1/2	<del> </del>	4091	FT	173	Sks	437	_	FT
Verbal Pluggi				<del> </del>	<del> </del>	FT		Sks		CU	_
	ion Granted On			├──		<del>                                     </del>		OKS			∸⊣
Rotary X C		4726		<del> </del>	<del></del>	<del>                                     </del>		Н			
Folal Depth ( Fresh Water (		4720		<del> </del>	<del> </del>	╁	<u></u>		7.		,
Salt Water De		1380		├	<del> </del>	<del> </del>	1	37.5		.1	<del>;                                    </del>
	mined in area ?	N		<del></del>		t	1				$\vdash$
Coal Depths	mineu orace -		<del></del>			-	1		1- /	3	+
Joar Depins				<b></b>	ļ ··	<del>                                     </del>	1		•		-
· · ·				·	<b>'</b>		•				~
OPEN FLOW	DATA						i				3
	•										
	Producing Form	ation	Shale		Pay	zone	e depth (ft	)	3868	to	4630
GAS:	Initial Open Floy	7	NA MCFA	5 OIL	Initia	al Op	en Flow:		Bbl/d		
	Final Open Flow	<i>)</i> .	42 MCF/	:f	Fina	ıl Op	en Flow:		Bbl/d		
	Tune of open flo	w between	nutral and fina		6	_Hou					
	Static rock press	tire:	645 PSI	(surface	tnessne)	after	72+	Hou	rs		
				_	_		40		2404		2444
	Second producir	_			<del></del> '		: depth (N	)	2184	10 —	2411
GAS:	Initial Open Flov		MCF/		Initial Open Flow: Final Open Flow:			Bbl/d			
	Final Open Flow		MCF/		Fina	•			Bbl/d		
	Time of open flo					Hou		U	••		
	Static rock press	sure	PSI	(sunace	pressure)	aitei		Hou_	15		

NOTE: ON BACK OF THESE FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGIC RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Office Q8008/2051 Action
WV Dept. of Environmental Projection

Date: 04/10/03 API# 47-039-05446

#### State of Wes: Virginia Department of Environmental Protection Office of Oil & Gas

Operators well name: Farm Name:

AL - 113

Addington Minning Inc.

Operator #

41350

Company:

Reed Gas Inc.

Address:

1206 Kanawha Blvd E.- Suite 201

Charleston, WV 25301

#### GEOLOGICAL RECORD

Description:	lop	Bolton
Clay/Sand	ō	15
Sands & Shale	15	1006
Rosedale Sand	1006	1090
Shale Break	1090	1187
Salt Sands w/ intermittent Shales	1187	1751
Red Rock/ Girey Shale	1751	1992
Little Lime	1992	2066
Pencil Cave	2066	2087
Big Lime	2087	2235
Keener	2235	2244
Injun	2244	2261
McCrady Shale	2261	2308
Upper Weir	2308	2338
Shale Break	2338	2372
Lower Weir	2372	2433
Shale	2433	4736

ACR 10 2003 W/Department of indrawa anta Protesson

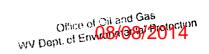
**Additional Comments:** 

Weak open flow test probably due to fluid entering while flowing

Received

Office of Oil and Gas
WV Dept. of Environment Application

	Reed `rot	hers Li	mited Parti	ner ip		
<del></del>	We	ell Comple	otion Report			
Well Name	Al -113			Date	-22-Ma	
API#		4	7039254460000	_		1/02
Stage 1	7			<u>~</u>	1/2 30	,
Formation	 Shale P	erfs 44	87 - 4630			
Break down PSI	2340 A			9 ISDP	2207	
Average Pump Rate:	27 B		uid System	Variable Qualit		
Total Sand	40,000 LE		uid to Recover	173 BB	·	
Max Sand Conc.			id 15%	500 Ga		
Nitrogen	430,000 S	•	id 28%	Ga		
Stage 2	]					
Formation	Shale Po	orfs <u>38</u>	68 - 3934			
Break down PSI	1785_A	vg PSI	2910	SDP	2400	
Average Pump Ra'e:	32 BI	PM Flu	uid System	Variable Qualit	y Foam	
Total Sand	20,000 LE	Bs Fit	sid to Recover	100 BB	ls	
Max Sand Conc.	3 Lt	os/gal Ac	id	500 Gal	is	
Nitrogen	445,000 S	CF Ac	id 28%	Gal	ls	
Stage 3						
Formation	 _NAPo	erfs				
Break down PSI	A	vg PSt		ISDP		
Average Pump Rate:	BI	PM Flu	ild System			
Total Sand	LE	3s Flu	id to Recover	BBI	s Toil	
Max Sand Conc.	Lb	os/gal Ac	id	Gal	s	3 15 1
Nitrogen	s	CF Ac	id 28%	Gal	ls	3 15 2 See along
Stage 4	٦				7- /2-2	in in
Formation	NA Po	erfs				
Break down PSI	<del></del>	vg PSI		ISDP		
Average Pump Rate:			id System			
Total Sand	LE	3s Flu	id to Recover	BBI	s	
Max Sand Conc.	u	os/gat Ac	id	Gal	İs	
Nitrogen	s	CF Ac	id 28%	Gal	s	
						RE SLS als
Total Sand	60,000	LBs To	tal Fluid		273 BB	Ls



	Well Co	ompletion Report	
Well Name	AI -113		Date 22-Met-02-
API#		4703925446000	
Stage 1	7		<u> </u>
Formation	→ Weir Perfs	2407 - 2411	
Break down PSI	3254 Avg PS		21 ISDP 1712
Average Pump Rate:	20 BPM	Fluid System	75% Foam
Total Sand	25,000 LBs	Fluid to Recover	149 BBIs
Max Sand Conc.	3 Lbs/gal	Acid 15%	500 Gals
Nitrogen	325,700 SCF	Acid 28%	Gals
Stage 2	]		
Formation	Lime Perfs	2184 - 2260	
Break down PSI	1963 Avg PS	i254	16 ISDP <u>2737</u>
Average Pump Rate:	16_BPM	Fluid System	65% Foam
Total Sand	<u>8,000</u> LBs	Fluid to Recover	92 BBIs
Max Sand Conr.	3 Lbs/gal	Acid	500 Gals
Nitrogen	141,600 SCF	Acid 28%	500 Gals
Stage 3	]		
Formation	NA Perfs		April 1 9 (2003)
Broak down PSI	Avg PSI	l	ISDP VO
Average Pump Pate:	ВРМ	Fluid System	The second secon
Total Sand	LBs	Fluid to Recover	BBIs
Max Sand Conc.	Lbs/gai	Acid	Gals
Nitrogen	SCF	Acid 28%	Gals
Stage 4	]		
Formation	NA Porfs		
Break down PSI	Avg PSI		ISDP
Average Pump Rate:	ВРМ	Fluid System	
Total Sand	LBs	Fluid to Recover	BBIs
Max Sand Conc.	Lbs/gal	Acid	Gais
Nitrogen	SCF	Acid 28%	Gals
Total Cand	33,000 LBs	Total Fluid	241 BBLs
Total Sand Total Nitrogen	33,000 LBs 467,300 SCF		1500 Gals

Received

WW-44 Revised 6-07

1) Date: 6	10/14
2) Operator's Well N	mber -113
3) API Well No.: 47 -	_ 39 . 5446P

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

	AUTICE OF APPLICATION	TO PLUG AND ABANDON A WELL
4) Surface Ow	nex(s) to be served: 5) (a)	Coal Operator
(a) Name	Addington Mining In	
Address	Blue Eggle Land Co.	Address
(b) Name	Charleston, WV 25302	A. A. I.A.
Address		(b) Coal Owner(s) with Declaration Name
		Address
		waddest
(c) Name		Nama
Address		Address
	***************************************	A No. of the William Control of the
9) Inspector		(c) Coal Lessee with Declaration
Address	Terry Urban	Name
	P.O. Box 1207	Address
Telephone	Clendnnin WV 25045	The second secon
		And the second of the second o
Take notice accompanying Protection, v the Applican	g documents for a pormy to plug and abandon a well of the continuous and the well at the local multaneous the well at the local multaneous the continuous and the continuous the continuous and the continuous the conti	undersigned well operator proposes to file or has filed this Notice and Application and with the Chief of the Office of Oil and Gas. West Virginia Department of Environmental attached Application and depicted on the attached Ferm WW-6. Capter of this Notice strifted that or delivered by hand to the person(s) named above (or by publication in the Chief.
	Well Operator	Red Gas Inc.
	By:	James W Keed 6
	Ita:	/President /
	Address	Virginia Street
		Charleston WV. 25301
	Telephone	304-345-3817
n. 1		June 2014
andscribed and	worn before me this difference	Wille Notary Public
My Commission	Expires Dou 6	20/0

Oll and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, each as same, 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 desprivacy officers.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
COMNIE WALKER
PO BOX 235
MOUNT CARBON, WV 25139
My commission expires Nov. 6, 2015

28	U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)					
602	For delivery informa	ation visit our website	at www.usps.com			
15	Charles on	TCIAL	. USE			
<b>199E</b>	Postage	\$0.91	0/32			
口	Certifled Fee	\$3.30	Postmark Postmark			
TOOO	Return Receipt Fee (Endorsement Required)	\$2.70	JUL 1 2014			
70	Restricted Delivery Fee (Endorsement Required)	\$0.00	15/			
1410	Total Postage & Fees	\$ \$6.91	25302.058			
7009	or PO Box No. 700	Eggle his	1=			
	PS Form 3800 August 2	iilds.	See Reverse for Instructions			

Received

Oslow Control Cas Projector

Oslow

WW-9 Rev. 5/08

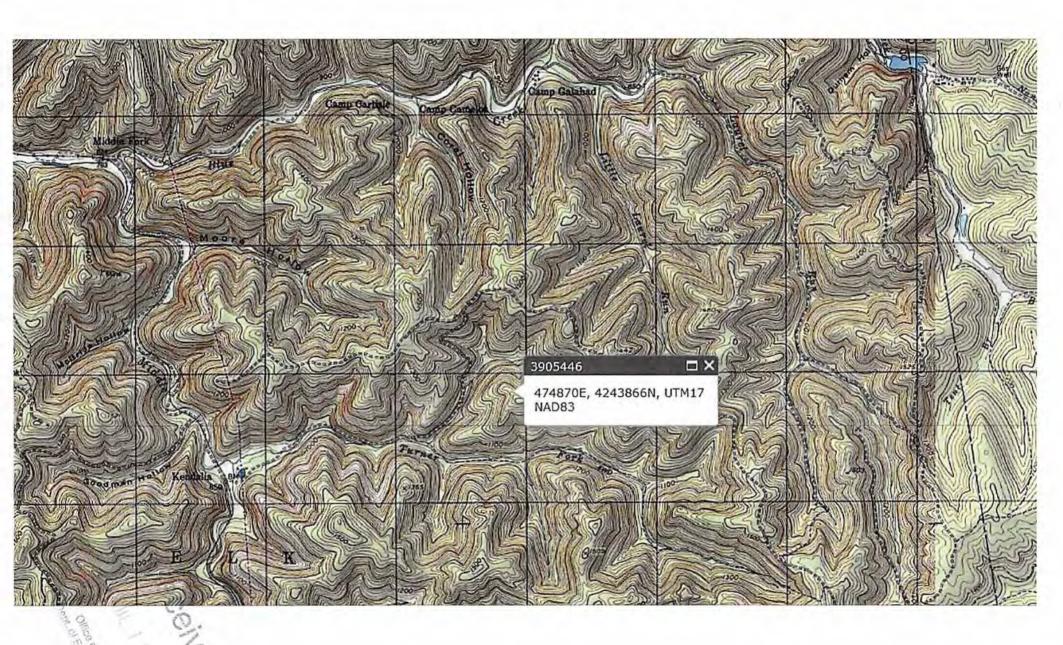
	Page	of
AP! Number 47 -		- 5446P
Operator's Well N	o. AL-	-113

#### 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

Sperator Nau		NERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE OP Code	
		k of Blue Creek Quadranglo Mammoth	
Elevation	1364'	County Kanawha District Elk	
Description o	of anticipated Pit Waste	(e)	
Wili a synthe	tic liner bo used in the	e pit?	
Proposed Dis	sposal Method For Tres		
	Land Ap		
	- Undergre	round Injection (UIC Permit Number) at API Number	
	Off Site 1	Dispposal (Supply form WW-9 for disposal location)	
	Other (E	Explain	
Promoced U/~			
rioposed we	ork For Which Pit Will Drilling		
	Drilling Workove	Swabbing Plugging .	
	Other (E	Explain	
I cer application for obtaining the centities for s	orm and all attachment information, I believe submitting false inform	f law that I have personally examined and am familiar with the information submitted on this ents thereto and that, based on my loquiry of those individuals immediately responsible for we that the information is true, accurate, and complete. I am aware that there are significant matical, including the possibility of fine or imprisonment.  **Amuse W. Reed, D.**	
	(	James W. Reed	
Company Off	icial (Typed Name)	James W. Reed	
		resident S	
Company Offi		resident av of June 2014	A.
Company Offi	ficial Title Pr	resident av of June 2014	A Grand Grand
Company Offi	iciai Title <u>Pr</u>	resident av of June 2014	BUC

	Operates Well No. AL-113
Property Boundary  Business Parity  Streets  Open Diese  Name N  Business  Delli site	Diverses Comments of the Comme
Proposed Revegetation Treatment: Aures Disturbed 1  Lime 3 Tons/sore or to correct to pill  Fertilizer (10-20-20 or equivalent) 500 (base  Mulch 2 Tous/nor	cre (500 like miniment)
	Mictures
Seed Type   Ibu sore	Seed Type The/acre
CONTRACTOR MIR	
Mach:  Newing(s) of road, location, pit and proposed area for land applicationscopied section of involved 7.5' topographic above.	
ten Approved by: Au w Mulli	nedarone acceptus megas ni magninistrativo de describito de de describito de de describito de describito de describito de describito de descri
Insputable (as	Der: 6-30-14 Gived.





# West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-39-5446 WELL NO.: A1-113
FARMNAME: Addington MMMg. Inc.
RESPONSIBLE PARTY NAME: Trace W. Bood Th.
COUNTY: / Kanguha DISTRICT: /= / 1/
QUADRANGLE: Mammoth
SURFACE OWNER: Blue Eagle, Land Co.
ROYALTYOWNER: Pine Mountion Oil & Cons
UTM GPS NORTHING: 4243866.5
UTM GPS EASTING: 474869.9. GPS ELEVATION: 1964
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:  1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.  2. Accuracy to Datum - 3.05 meters  3. Data Collection Method: Survey grade GPS: Post Processed Differential
Real-Time Differential
Mapping Grade GPS: Post Processed Differential
Real-Time Differential
4. Letter size copy of the topography map showing the well location.  I the undersigned, hereby certify this data 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 Office of Oil and Gas.
Stone Waluath contentes 6-15-14 Signature Tile Date

08/08/2014